



OTRS
Open Technology
Real Services

Documentation

OTRS 3.3 - Admin Manual

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OTRS 3.3 - Admin Manual

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Table of Contents

Preface	viii
1. Introduction	1
1. Trouble Ticket Systems - The Basics	1
1.1. What is a trouble ticket system, and why do you need one?	1
1.2. What is a trouble ticket?	2
2. OTRS Help Desk	2
2.1. Basics	2
2.2. Features	2
2.3. Hardware and software requirements	10
2.4. Community	12
2.5. Professional Services for OTRS	12
2. Installation	13
1. The simple way - Installation of pre-built packages	13
1.1. Installing the RPM on a SUSE Linux server	13
1.2. Installing OTRS on a Red Hat Enterprise Linux or CentOS system	15
1.3. Installing OTRS on a Debian or Ubuntu system	20
1.4. Installing OTRS on Microsoft Windows systems	20
2. Installation from source (Linux, Unix)	22
2.1. Preparing the installation from source	22
2.2. Installation of Perl modules	23
2.3. Configuring the Apache web server	24
2.4. Configuring the database	25
2.5. Setting up the cron jobs for OTRS	26
2.6. OTRS Scheduler Service	29
3. Using the web installer	29
4. Upgrading the OTRS Framework	33
5. Upgrading Windows Installer	37
5.1. Performing patch level upgrades on Windows	37
5.2. Performing minor level upgrades on Windows	38
6. Additional applications	38
6.1. FAQ	38
3. First steps	39
1. Agent web interface	39
2. Customer web interface	39
3. Public web interface	40
4. First login	40
5. The web interface - an overview	41
6. The Dashboard	43
7. What is a queue?	46
8. What is the queue overview?	47
9. User preferences	48
4. Administration	50
1. The ADMIN area of OTRS	50
1.1. Basics	50
1.2. Agents, Groups and Roles	50
1.3. Customers and Customer Groups	58
1.4. Queues	61
1.5. Salutations, signatures, attachments and templates	63
1.6. Auto responses	71
1.7. Email addresses	74
1.8. Notifications	75
1.9. SMIME	76
1.10. PGP	77
1.11. States	77
1.12. SysConfig	78

1.13. Using mail accounts	79
1.14. Filtering incoming email messages	80
1.15. Executing automated jobs with the GenericAgent	82
1.16. Admin email	84
1.17. Session management	84
1.18. System Log	85
1.19. SQL queries via the SQL box	86
1.20. Package Manager	86
1.21. Web Services	87
1.22. Dynamic Fields	88
2. System Configuration	89
2.1. OTRS config files	89
2.2. Configuring the system through the web interface	90
3. Backing up the system	91
3.1. Backup	91
3.2. Restore	91
4. Email settings	92
4.1. Sending/Receiving emails	92
4.2. Secure email with PGP	97
4.3. Secure email with S/MIME	99
5. Using external backends	102
5.1. Customer data	102
5.2. Customer user backend	103
5.3. Backends to authenticate Agents and Customers	110
5.4. Customizing the customer self-registration	114
6. Ticket settings	116
6.1. Ticket States	116
6.2. Ticket priorities	119
6.3. Ticket Responsibility & Ticket Watching	119
7. Time related functions	122
7.1. Setting up business hours, holidays and time zones	122
7.2. Automated Unlocking	123
8. Customizing the PDF output	123
9. Stats module	124
9.1. Handling of the module by the agent	124
9.2. Administration of the stats module by the OTRS administrator	133
9.3. Administration of the stats module by the system administrator	134
10. Dynamic Fields	136
10.1. Introduction	136
10.2. Configuration	137
11. Generic Interface	154
11.1. Generic Interface Layers	154
11.2. Generic Interface Communication Flow	156
11.3. Web Services	159
11.4. Web Service Graphical Interface	159
11.5. Web Service Command Line Interface	174
11.6. Web Service Configuration	176
11.7. Connectors	182
12. OTRS Scheduler	193
12.1. Scheduler Graphical Interface	193
12.2. Scheduler Command Line Interface	194
5. Customization	199
1. Access Control Lists (ACLs)	199
1.1. Introduction	199
1.2. Examples	199
1.3. Reference	201
2. Process Management	204
2.1. Introduction	204

2.2. Example process	205
2.3. Implementing the example	205
2.4. Process configuration reference	229
3. Creating your own themes	247
4. Localization of the OTRS frontend	248
6. Performance Tuning	249
1. OTRS	249
1.1. TicketIndexModule	249
1.2. TicketStorageModule	249
1.3. Archiving Tickets	250
2. Database	250
2.1. MySQL	251
2.2. PostgreSQL	251
3. Webserver	251
3.1. Pre-established database connections	251
3.2. Preloaded modules - startup.pl	251
3.3. Reload Perl modules when updated on disk	251
3.4. Choosing the Right Strategy	252
3.5. mod_gzip/mod_deflate	252
A. Additional Resources	253
1. Website OTRS Group	253
2. Mailing lists	253
3. Bug tracking	254
4. Commercial Support	254
B. Configuration Options Reference	255
1. DynamicFields	255
2. Framework	260
3. GenericInterface	389
4. ProcessManagement	401
5. Scheduler	410
6. Ticket	412
C. Credits	643
D. GNU Free Documentation License	645
0. PREAMBLE	645
1. APPLICABILITY AND DEFINITIONS	645
2. VERBATIM COPYING	646
3. COPYING IN QUANTITY	646
4. MODIFICATIONS	647
5. COMBINING DOCUMENTS	648
6. COLLECTIONS OF DOCUMENTS	648
7. AGGREGATION WITH INDEPENDENT WORKS	649
8. TRANSLATION	649
9. TERMINATION	649
10. FUTURE REVISIONS OF THIS LICENSE	649
How to use this License for your documents	650

List of Tables

2.1. Description of several cron job scripts.	27
4.1. Default groups available on a fresh OTRS installation	51
4.2. Rights associated with OTRS Groups	53
4.3. Additional permission groups	54
4.4. Events for Auto answers	72
4.5. Function of the different X-OTRS-headers	80
4.6. The following fields will be added into the system:	138
4.7. List of init scripts and supported Operating Systems	195
A.1. Mailinglists	253



List of Examples

4.1. Sort spam mails into a specific queue	82
4.2. .fetchmailrc	94
4.3. Example jobs for the filter module Kernel::System::PostMaster::Filter::Match	95
4.4. Example job for the filter module Kernel::System::PostMaster::Filter::CMD	95
4.5. Example job for the filter module Kernel::System::PostMaster::Filter::Ex- ternalTicketNumberRecognition	96
4.6. Configuring a DB customer backend	103
4.7. Using company tickets with a DB backend	105
4.8. Configuring an LDAP customer backend	106
4.9. Using Company tickets with an LDAP backend	107
4.10. Using more than one customer backend with OTRS	108
4.11. Authenticate agents against a DB backend	110
4.12. Authenticate agents against an LDAP backend	110
4.13. Authenticate Agents using HTTPBasic	112
4.14. Authenticate Agents against a Radius backend	112
4.15. Customer user authentication against a DB backend	112
4.16. Customer user authentication against an LDAP backend	113
4.17. Customer user authentication with HTTPBasic	113
4.18. Customer user authentication against a Radius backend	114
4.19. Definition of a value series - one element	131
4.20. Definition of a value series - two elements	131
4.21. Activate Field1 in New Phone Ticket Screen.	147
4.22. Activate Field1 in New Phone Ticket Screen as mandatory.	148
4.23. Activate several fields in New Phone Ticket Screen.	148
4.24. Deactivate some fields in New Phone Ticket Screen.	149
4.25. Activate Field1 in Ticket Zoom Screen.	150
4.26. Activate Field1 in Ticket Overview Small Screens.	151
4.27. Activate Field1 in TicketCreate event.	152
4.28. Activate Field1 in the User preferences.	153
4.29. Example to start the OTRS Scheduler on linux	195
4.30. Example To Start The OTRS Scheduler	196
4.31. Example to force stop the OTRS Scheduler	196
4.32. Example to register the OTRS Scheduler as a Windows Service	197
4.33. Example to start the OTRS Scheduler on Windows	197
4.34. Example to force stop the OTRS Scheduler on Windows	198
5.1. ACL allowing movement into a queue of only those tickets with ticket priority 5.	199
5.2. ACL allowing movement into a queue of only those tickets with ticket priority 5 stored in the database.	200
5.3. ACL disabling the closing of tickets in the raw queue, and hiding the close but- ton.	200
5.4. ACL removing always state closed successful.	201
5.5. ACL only showing Hardware services for tickets that are created in queues that start with "HW".	201
5.6. Reference showing all possible important ACL settings.	201

Preface

This book is intended for use by OTRS administrators. It also serves as a good reference for OTRS newbies.

The following chapters describe the installation, configuration, and administration of the OTRS software. The first third of the text describes key functionality of the software, while the remainder serves as a reference to the full set of configurable parameters.

This book continues to be a work in progress, given a moving target on new releases. We need your feedback in order to make this a high quality reference document: one that is usable, accurate, and complete. Please write to us if you find content missing in this book, if things are not explained sufficiently, or even if you see spelling mistakes, grammatical errors, or typos. Any kind of feedback is highly appreciated and should be made via our bug tracking system on <http://bugs.otrs.org>. Thanks in advance for your contributions!



Chapter 1. Introduction

1. Trouble Ticket Systems - The Basics

This chapter offers a brief introduction to trouble ticket systems, along with an explanation of the core concept of a trouble ticket. A quick example illustrates the advantages of using such a system.

1.1. What is a trouble ticket system, and why do you need one?

The following example describes what a trouble ticket system is, and how you might benefit from using such a system at your company.

Let's imagine that Max is a manufacturer of video recorders. Max receives many messages from customers needing help with the devices. Some days, he is unable to respond promptly or even acknowledge the messages. Some customers get impatient and write a second message with the same question. All messages containing support requests are stored in a single inbox folder. The requests are not sorted, and Max responds to the messages using a regular email program.

Since Max cannot reply fast enough to all the messages, he is assisted by the developers Joe and John in this. Joe and John use the same mail system, accessing the same inbox. They don't realize that Max often gets two identical requests from one frustrated customer. Sometimes they both end up responding separately to the same request, with the customer receiving two different answers. Furthermore, Max is unaware of the details of their responses. He is also unaware of the details of the customer problems and their resolutions, such as which problems occur with high frequency, or how much time and money he has to spend on customer support.

At a meeting, a colleague tells Max about trouble ticket systems and how they can solve Max's problems with customer support. After looking for information on the Internet, Max decides to install OTRS on a computer that is accessible from the web by both his customers and his employees. Now, the customer requests are no longer sent to Max's private inbox but to the mail account that is used for OTRS. The ticket system is connected to this mailbox and saves all requests in its database. For every new request, the system automatically generates an answer and sends it to the customer so that the customer knows that his request has arrived and will be answered soon. OTRS generates an explicit reference, the ticket number, for every single request. Customers are now happy because their requests are acknowledged and it is not necessary to send a second message with the same question. Max, John, and Joe can now log into OTRS with a simple web browser and answer the requests. Since the system locks a ticket that is answered, no message is edited twice.

Let's imagine that Mr. Smith makes a request to Max's company, and his message is processed by OTRS. John gives a brief reply to his question. But Mr. Smith has a follow-up question, which he posts via a reply to John's mail. Since John is busy, Max now answers Mr. Smith's message. The history function of OTRS allows Max to see the full sequence of communications on this request, and he responds with a more detailed reply. Mr. Smith does not know that multiple service representatives were involved in resolving his request, and he is happy with the details that arrived in Max's last reply.

Of course, this is only a short preview of the possibilities and features of trouble ticket systems. But if your company has to attend to a high volume of customer requests through emails and phone calls, and if different service representatives need to respond

at different times, a ticket system can be of great assistance. It can help streamline work flow processes, add efficiencies, and improve your overall productivity. A ticket system helps you to flexibly structure your Support or Help Desk environment. Communications between customers and service staff become more transparent. The net result is an increase in service effectiveness. And no doubt, satisfied customers will translate into better financial results for your company.

1.2. What is a trouble ticket?

A trouble ticket is similar to a medical report created for a hospital patient. When a patient first visits the hospital, a medical report is created to hold all necessary personal and medical information on him. Over multiple visits, as he is attended to by the same or additional doctors, the attending doctor updates the report by adding new information on the patient's health and the ongoing treatment. This allows any other doctors or the nursing staff to get a complete picture on the case at hand. When the patient recovers and leaves the hospital, all information from the medical report is archived and the report is closed.

Trouble ticket systems such as OTRS handle trouble tickets like normal email. The messages are saved in the system. When a customer sends a request, a new ticket is generated by the system which is comparable to a new medical report being created. The response to this new ticket is comparable to a doctor's entry in the medical report. A ticket is closed if an answer is sent back to the customer, or if the ticket is separately closed by the system. If a customer responds again on an already closed ticket, the ticket is reopened with the new information added. Every ticket is stored and archived with complete information. Since tickets are handled like normal emails, attachments and contextual annotations will also be stored with each email. In addition, information on relevant dates, employees involved, working time needed for ticket resolution, etc. are also saved. At any later stage, tickets can be sorted, and it is possible to search through and analyze all information using different filtering mechanisms.

2. OTRS Help Desk

This chapter describes the features of OTRS Help Desk (OTRS). You will find information about the hardware and software requirements for OTRS. Additionally, in this chapter you will learn how to get commercial support for OTRS, should you require it, and how to contact the community.

2.1. Basics

OTRS Help Desk (OTRS) is a web application that is installed on a web server and can be used with a web browser.

OTRS is separated into several components. The main component is the OTRS framework which contains all central functions for the application and the ticket system. It is possible to install additional applications such as OTRS::ITSM modules, integrations with Network Monitoring solutions, a knowledge base (FAQ), et cetera.

2.2. Features

OTRS has many features. The following list gives an overview of the main features included in the OTRS framework.

2.2.1. User interface

- OTRS comes with separate, modern web interfaces for agents and customers.

- It can be used on any modern web browser, including mobile platforms and is retina ready.
- The web interface can be customized with own themes and skins.
- Powerful and customizable agent dashboard with personal ticket overviews and graphical statistics support.
- An extensible reporting engine provides various statistics and report scheduling options.
- With the ProcessManagement it is possible to define own ticket-based screens and processes (ticket workflows).
- OTRS has a built-in rights management that can be extended with fine-grained access control lists (ACLs).
- Support for more than 30 languages and different time zones.

2.2.2. Mail interface

- Support for MIME emails with attachments.
- Automatic conversion of HTML into plain text messages (increased security for sensitive content and enables faster searching).
- Incoming mail can be filtered and pre-processed with complex rules, e.g. for spam messages or Queue distribution.
- Support for PGP and S/MIME standards for key/certificate management and email processing.
- Automatic responses, configurable for every queue.
- Email notifications for agents about new tickets, follow-ups or unlocked tickets.
- It is possible to define an own Ticket identifier to recognize follow-ups, e.g. Call#, Ticket# or Request#. There are different ticket number generators (date-based, random etc.) and you can integrate your own as well. Follow-ups can also be recognized by In-Reference-To headers or external ticket numbers.

2.2.3. Tickets

- OTRS uses Tickets to gather all external and internal communication that belongs together. These tickets are organized in Queues.
- There are many different ways of looking at the tickets in a system (based on Queues, Status, Escalation etc.) in different level of detail (small/medium/preview).
- The Ticket history records all changes to a ticket.
- Tickets can be changed in many ways, such as replying, forwarding, bouncing, moving to another Queue, updating attributes (state, priority etc.), locking and accounting working time. It is possible to modify many tickets at once (bulk action).
- Pending time and escalation time / SLA management allow time-based scheduling and restrictions on tickets.
- Tickets can be linked to other tickets or other objects such as FAQ entries.
- Automatic and timed actions on tickets are possible with the "GenericAgent".

- OTRS comes with a powerful search engine that allows complex and fulltext searches on tickets.

2.2.4. System

- OTRS runs on many operating systems (Linux, Solaris, AIX, FreeBSD, OpenBSD, Mac OS 10.x, Microsoft Windows) and supports several database systems for the central OTRS back-end (MySQL, PostgreSQL, Oracle, MSSQL).
- The core system can be extended by installing OTRS packages. There are many free packages (such as FAQ, OTRS::ITSM and others) as well as FeatureAddOn packages that are available for service contract customers of the OTRS group.
- Integration of external back-ends for the customer data, e.g. via AD, eDirectory or OpenLDAP. Customers can authenticate via database, LDAP, HTTPAuth or Radius.
- With the GenericInterface it is easy to connect OTRS to other web services. Simple web services can be integrated without programming, complex scenarios with custom extensions. The OTRS Ticket connector allows the creation, updating and searching of tickets, via web services from a third party application.

Now let us look at the changes in recent versions of OTRS.

2.2.5. New features of OTRS 3.3

2.2.5.1. Productivity

- Dashboard ticket lists and regular ticket overviews can now be filtered by eligible ticket columns, and the shown columns are configurable.
- Ticket medium and preview overviews are now sortable.
- Added a calendar widget for the dashboard that can show tickets as events.
- Added new dashboard widget that shows in a matrix form the number of tickets per state and per queue.
- Agents can now mark important articles.
- A new tree selection widget makes working with tree data (queues, services etc.) much faster and easier.
- Added support to search relative dates (e.g. more than 1 month ago) in Date and Date/Time dynamic fields.
- It is now possible to specify templates (previously "standard responses") also for creation of new tickets and for ticket forwarding.
- The list of available processes can now be filtered by ACLs.
- Added support to initiate processes from Customer Interface.
- In many places text is not shortened any more by a fixed number of characters ("Queue1..."), but instead by available screen estate. This makes it possible to see more information at once.
- OTRS is now Retina-ready. Images have been adapted to match the higher resolutions and most of the image icons have been replaced by font characters from the FontAwesome webfont.

- Added new feature "management dashboard". This makes it possible to display statistic charts in the dashboard. Please note that IE8 does not support this feature.

2.2.5.2. Working With External Systems

- OTRS can now use multiple customer company databases, thanks to Cyrille @ belnet-ict.
- OTRS can now automatically store customer user data in ticket dynamic fields for permanent storage in the ticket. This can be useful for reporting.
- OTRS is now able correctly assign incoming emails to existing tickets based on ticket numbers from external systems.
- OTRS can now fetch email also over POP3/TLS connections.

2.2.5.3. Installation & Administration

- Web Installer now can setup OTRS on PostgreSQL, Oracle and SQL Server databases in addition to MySQL.
- OTRS now has full support for MySQL 5.6.
- Generic agent jobs can now be executed for configured ticket events.
- The new graphical ACL editor makes ACL editing easier.
- Postmaster filters can now use negated filter conditions, thanks to Renée Bäcker.
- Postmaster filters can now specify relative pending dates and Owner / Responsible for new tickets based on incoming email data.
- Customer and Agent passwords now can be encrypted using the strong bcrypt algorithm, which is better than SHA.
- Many icons now use an icon font which makes it much easier to create custom skins with different base colors. This also improves overall performance through smaller amount of (image) files to load.

2.2.6. New features of OTRS 3.2

2.2.6.1. More customer focused

- The new "Customer Information Center" provides a great dashboard-like view on a customer (company). You can see
 - Escalated, reminder, new, and open tickets of the customer company.
 - Customer users (contacts) belonging to this customer company, with their individual ticket count and shortcuts for creating new tickets for them.
 - An overall ticket status view of the customer company.
- New "switch to customer" feature makes it possible for an agent with the required permissions to look into the customers's panel with their rights.

2.2.6.2. More customizable

2.2.6.2.1. Process Management

- The new process management makes it possible to represent processes within OTRS.

2.2.6.2.2. Customer Interface Improvements

- The customer web interface now fully supports AJAX and ACLs.
- It now requires JavaScript and is not compatible with Internet Explorer 6 or earlier versions.
- In the Customer Interface, you can now set the default ticket type for new tickets. Additionally, you can now also hide the ticket type and use a default value for all tickets created via the customer interface.

2.2.6.2.3. Agent Interface Improvements

- Agents can now search for tickets based on escalation time.
- New option to show DynamicFields by default in ticket search.
- Screen usage optimizations in the ticket screens to avoid scrolling in popup windows. For each ticket screen, the size of the richtext editor can now be configured separately.
- It is now possible to move tickets to another queue from within the TicketAction dialogs (TicketNote, TicketClose etc.) after activating a configuration option. This is turned off by default.
- Ticket search will now directly jump to the ticket zoom screen if only one ticket is found.
- New ability to hide the Article Type from TicketActionCommon-based screens which can be helpful to fit more data in the browser window.
- There is a new out-of-office dashboard widget that lists all currently unavailable agent colleagues.
- New CKEditor 4 makes working with rich text content (such as HTML emails) easier and more stable.

2.2.6.2.4. Administration improvements

- Event Based notifications can now be sent out only for specific Article Sender Types.
- The Statistics engine in OTRS now understands 'Weeks' in addition to days, months and years. This grants the ability to, for instance, create a report for tickets 'created last week', or generate a report that shows tickets created per queue per week.
- It is possible to place customized DTL (template) files in Custom/Kernel/Output/HTML, so that they override the system's default DTL files just as how this already works for Perl files.
- In AdminSMIME it is now possible to display human readable certificate contents.
- SysConfig now supports config setting types Date and DateTime.

2.2.6.3. Better scalability

2.2.6.3.1. Ticket Archiving Improved

- When tickets are archived, the information which agent read the ticket and articles can be removed, as well as the ticket subscriptions of agents. This is active by default and helps reduce the amount of data in the database on large systems with many tickets and agents.
- There is also a new script to remove this data from existing archived tickets.

- Archived tickets are now always shown as 'read' by the agent.

2.2.6.3.2. Performance Improvements

- Session management is up to 10 times faster, especially with many active users.
- It is now possible to limit the number of concurrent agents and/or users to avoid server capacity overload.
- Significant reduction in the number of executed database statements in ticket overviews and ticket masks in agent and customer frontend.
 - This will reduce the load on database servers, especially on large systems. In some cases OTRS will become visibly more responsive (if the system was slowed down by the DB load or latency).
- Improved performance of LDAP user synchronization.
- Improved cache performance with many cache files.

2.2.6.4. More Interoperable

2.2.6.4.1. FAQ Connector for the GenericInterface

- It is now possible to access the data of the FAQ module (OTRS knowledge database) via web service (GenericInterface). This can be useful to embed FAQ articles on your company website, for example.

2.2.7. New features of OTRS 3.1

2.2.7.1. GENERIC INTERFACE - A Web Service Framework

- GI is a flexible framework to allow web service interconnections of OTRS with third party applications.
- OTRS can act in both ways - as a provider (server, requested from remote) or requester (client, requesting remotely).
- Simple web service connections can be created without programming by configuring the Generic Interface.
- Complex scenarios can be realized by plugging in custom OTRS extensions that add perl code to the GI infrastructure on different architectural layers.
- *Connectors* expose parts of OTRS to Generic Interface web services. For example, a ticket connector exposes the ticket create/update function, so that they can be used in a web service regardless which network transport is used.
- A scheduler daemon process supports asynchronous event handling. This is useful to asynchronously start web service requests from OTRS to another system, after the agent's request has been answered (e.g. when a ticket has been created). Otherwise, it might block the response, resulting in increased response times for the agent.

With the Generic Interface, new web services can be configured easily by using existing OTRS modules, without additional code. They can be combined to create a new web service. When configuring a new web service connection, the administrator has to add:

- A new web service in the admin GUI
- The basic meta data (Transport type (SOAP), URL etc.) and

- Existing operations (part of a connector) and specify for each operation how the data must be mapped (inbound and outbound)

A Generic Interface Debugger will help the OTRS administrator to check how requests are coming in and how they are handled through the different layers.

2.2.7.1.1. Current Features

- Network transports: SOAP/HTTP. Others like REST and JSON are scheduled to be added in the future depending on customers demand.
- Configurable data mapping Graphical User Interface for key/value transformations with respect to incoming and outgoing data.
- Graphical debugger to check the configuration and flow of information of configured web services.
- A ticket connector allowing the use of OTRS as a web service for ticket handling.

2.2.7.1.2. Future Features

- Additional network transports (REST, JSON).
- The GI will replace the iPhoneHandle as the backend for mobile apps.
- Additional connectors will be added to provide more parts of OTRS for use with web services (e.g. to allow the creation, update, or deletion of agents, users, services or CIs).

2.2.7.2. DYNAMIC FIELDS

The DynamicFields Feature replaces the existing ticket and article FreeText and FreeTime fields with a dynamic structure that will also allow to create custom forms in OTRS.

- An unlimited amount of fields can be configured using an own graphical user interface for administration.
- The fields can have different types that can be used for both, tickets and articles. Available by default are:
 - Text
 - Multiline text
 - Checkbox
 - Dropdown
 - Multi-select
 - Date
 - Date and time
- New custom field types (e.g. custom field type dropdown with an external data source) can be added with small effort as the fields are created in a modular, pluggable way.
- A future scenario is, that DynamicFields can be used for objects other than tickets or in custom modules. For example, a custom module adding objects to handle "orders" in OTRS could use the DynamicFields to attach properties/data to these orders.
- A database update script will transform historic FreeText fields and related configuration settings into the new structure.

2.2.7.3. TICKET MANAGEMENT IMPROVEMENTS

2.2.7.3.1. Ticket creation improved

- Multiple email addresses can now be specified as 'To:', 'CC:' or 'BCC:' when creating a new phone or email ticket.

2.2.7.3.2. Inbound phone call support

- Inbound phone calls can now be registered within an existing tickets (until now, only outbound calls were registered).

2.2.7.3.3. Ticket overview preview improved

- It is now possible to exclude articles of certain sender types (e.g. articles from internal agents) in the SysConfig from being displayed in the overview preview mode.
- A certain article type can be configured which will display articles of that type as expanded by default when the view is accessed.

2.2.7.3.4. Ticket move improved

- The screen shown after moving a ticket is now configurable. Options are the ticket zoom view (LastScreenView) or the ticket list (LastScreenOverview).

2.2.7.3.5. Bulk action improved

- With the new bulk action, outbound emails can now be sent from multiple tickets at the same time. As tickets can have different queues, and these queues each can have different templates, salutations and signatures, these are not used in the Bulk Action email.
- An additional bulk action allows configuring the ticket type for selected tickets.

2.2.7.3.6. Configurable Reject Sender Email Address

- The feature allows configuring an email address instead of the administrator address to reject the creation of new tickets by email. This feature can be used in all cases where customers are not allowed to create new tickets by email.

2.2.7.4. PROCESS AUTOMATION

2.2.7.4.1. Escalation events added

- OTRS will now create events for each of the available escalation types (response, update and resolution). This allows performing actions (such as notifications) before the escalation occurs, in the moment it occurs, and in the moment that the escalation ends.

2.2.7.4.2. Notification mechanism improved

- A new generic agent notification module allows the OTRS administrator to define messages that will be shown in the agent web front-end when agents log into the system.

2.2.7.4.3. Time calculation improved

- All kinds of times will now be calculated by and based on the application server only solving the issues that were caused by variances between the clock times of application and data base servers.

2.2.7.4.4. GenericAgent improved

- The GenericAgent can now filter for tickets change time.

- In addition, the GenericAgent can set the ticket responsible for matched tickets.

2.2.7.5. USER INTERFACE, RICH TEXT EDITOR, CHARSET

2.2.7.5.1. User interface performance improved

- The speed for rendering and article display was improved, thanks to Stelios Gikas <stelios.gikas@noris.net>!

2.2.7.5.2. Rich Text Editor Update

- IOS5 support added.
- Block quotes can be left with the enter key.
- Update from CKEditor 3.4 to CKEditor 3.6, so improvements refer to the releases of [CKEditor 3.5](#) and [CKEditor 3.6](#).
- IE9 support improved.
- Resizable dialogs.

2.2.7.5.3. Unicode Support - Non-UTF-8 Internal Encodings Dropped

- UTF-8 is now the only allowed internal charset of OTRS.
- All language files are now formatted in UTF-8, which simplifies their handling and future improvements of the translation mechanism.

2.2.7.6. DATABASE DRIVER SUPPORT

2.2.7.6.1. PostgreSQL DRIVER compatibility improved

- PostgreSQL 9.1 support added.
- A new legacy driver is now available for PostgreSQL 8.1 or earlier versions.

2.2.7.6.2. MS SQL DRIVER compatibility improved

- The MS SQL driver now stores binary data in VARBINARY rather than deprecated type TEXT as well as NVARCHAR to store text strings rather than VARCHAR (for improved Unicode support).

2.2.7.7. MAIL INTEGRATION

2.2.7.7.1. Mail handling improved

- When connecting to IMAP mail accounts, it is now possible to handle emails from a specific email folder, aside from the INBOX folder.
- OTRS can now connect to IMAP servers using Transport Layer Security (TLS), which is useful for modern restricted environments.

2.3. Hardware and software requirements

OTRS can be installed on many different operating systems. OTRS can run on linux and on other unix derivatives (e.g. OpenBSD or FreeBSD). You can also run it on Microsoft Windows. OTRS does not have excessive hardware requirements. We recommend using a machine with at least a 2 GHz Xeon or comparable CPU, 2 GB RAM, and a 160 GB hard drive for a small setup.

To run OTRS, you'll also need to use a web server and a database server. Apart from that, you should install perl and/or install some additional perl modules on the OTRS machine. The web server and Perl must be installed on the same machine as OTRS. The database back-end may be installed locally or on another host.

For the web server, we recommend using the Apache HTTP Server, because its module mod_perl greatly improves the performance of OTRS. Apart from that, OTRS should run on any web server that can execute Perl scripts.

You can deploy OTRS on different databases. You can choose between MySQL, PostgreSQL, Oracle, or Microsoft SQL Server. If you use MySQL you have the advantage that the database and some system settings can be configured during the installation, through a web front-end.

For Perl, we recommend using at least version 5.8.8. You will need some additional modules which can be installed either with the Perl shell and CPAN, or via the package manager of your operating system (rpm, yast, apt-get).

Software requirements

2.3.1. Perl support

- Perl 5.10 or higher

2.3.2. Web server support

- Apache2 + mod_perl2 or higher (recommended)
- Webserver with CGI support (CGI is not recommended)
- Microsoft Internet Information Server (IIS) 6 or higher

2.3.3. Database support

- MySQL 5.0 or higher
- PostgreSQL 8.0 or higher (8.2 or higher recommended)
- Oracle 10g or higher
- Microsoft SQL Server 2005 or higher

The section in the manual about installation of Perl modules describes in more detail how you can set up those which are needed for OTRS.

If you install a binary package of OTRS, which was built for your operating system (rpm, Windows-Installer), either the package contains all Perl modules needed or the package manager of your system should take care of the dependencies of the Perl modules needed.

2.3.4. Web browser support

To use OTRS, you'll be OK if you use a modern browser with JavaScript support enabled. We do not support the following browsers:

- Internet Explorer before version 8
- Firefox before version 10
- Safari before version 5

We recommend always using the latest version of your browser, because it has the best JavaScript and rendering performance. Dramatical performance varieties between the used browsers can occur with big data or big systems. We are happy to consult you on that matter.

2.4. Community

OTRS has a large user community. Users and developers discuss OTRS and exchange information on related issues through the mailing-lists. You can use the mailing lists to discuss installation, configuration, usage, localization and development of OTRS. You can report software bugs in our bug tracking system.

The homepage of the OTRS community is: <http://www.otrs.com/open-source/>.

2.5. Professional Services for OTRS

Whether you need help in configuring or customizing OTRS or you want to be on the safe side, don't hesitate to contact us: We offer a wide range of professional services such as world-wide enterprise support, consulting and engineering including process design, implementation, customization, application support, and fully managed service.

Our [Service Contracts](#) guarantee instant help and professional support as well as support assessment and last but not least free access to [OTRS Feature Add-ons](#) - useful additional features for your OTRS.

[The OTRS Group](#) offers specific [training programs](#) in different countries. You can either participate in one of our public OTRS Administrator trainings which take place regularly, or benefit from an inhouse training that covers all the specific needs of your company.

Chapter 2. Installation

This chapter describes the installation and basic configuration of the central OTRS framework. It covers information on installing OTRS from source, or with a binary package such as an RPM or a Windows executable.

Topics covered here include configuration of the web and database servers, the interface between OTRS and the database, the installation of additional Perl modules, setting proper access rights for OTRS, setting up the cron jobs for OTRS, and some basic settings in the OTRS configuration files.

Follow the detailed steps in this chapter to install OTRS on your server. You can then use its web interface to login and administer the system.

1. The simple way - Installation of pre-built packages

If available for your platform you should use pre-built packages to install OTRS, since it is the simplest and most convenient method. You can find them in the download area at <http://www.otrs.com>. The following sections describe the installation of OTRS with a pre-built or binary package on SUSE, Red Hat and Microsoft Windows systems. Only if you are unable to use the pre-built packages for some reason should you follow the manual process.

1.1. Installing the RPM on a SUSE Linux server

This section describes the installation of our RPM package on a SUSE Linux server. We have tested against all recent SLES and openSUSE versions. Before you start the installation, please visit <http://www.otrs.com/downloads> and make sure you use the latest OTRS RPM package available.

1.1.1. Preparing the database for OTRS

You can use OTRS using different database back-ends: MySQL, PostgreSQL, Oracle or Microsoft SQL Server. The most popular database to deploy OTRS on is MySQL. This chapter shows the steps you need to take to configure MySQL on a SUSE-based server. Of course you can install the database on a dedicated database server if needed for scalability or other purposes.

Note

If you follow this chapter on openSUSE 12.3 and up you'll actually not install MySQL but MariaDB instead, a MySQL compatible fork of the MySQL code. This is no problem, it will work just as well (and even a little better at some points).

Install MySQL by executing the following command as root:

```
linux:~ # zypper install mysql perl-DBD-mysql
```

This will install MySQL with the default options on your system. You'll need to change the defaults in order to make it suitable for OTRS. With a text editor open the file `/etc/my.cnf` and change the line with **max_allowed_packet** on it, and add a line below, like this:

```
max_allowed_packet=20M
```

```
query_cache_size=32M
```

Now execute **rcmysql restart** to re-start the database server and activate these changes. Then run **/usr/bin/mysql_secure_installation** and follow the on-screen instructions to set a database root password, remove anonymous access and remove the test database. Lastly, run **chkconfig -a mysql** in order to make sure mysql is automatically started at server startup time.

1.1.2. Installing OTRS

Install OTRS with via the command line using **zypper**. This will also pull in some dependencies such as the apache web server and some Perl modules. Make sure you copied the OTRS RPM file to the current directory.

```
otrs-sles:~ # zypper install otrs-3.3.*.rpm
....
Retrieving package otrs-3.3.3-01.noarch (1/26), 17.5 MiB (74.3 MiB unpacked)
Installing: otrs-3.3.3-01 [done]
Additional rpm output:
Check OTRS user ... otrs added.

Next steps:

[start database and Apache]
Make sure your database is running and execute 'rcapache2 restart'.

[install the OTRS database]
Use a webbrowser and open this link:
http://myserver.example.com/otrs/installer.pl

[OTRS services]
Start OTRS 'rcotrs start-force' (rcotrs {start|stop|status|restart|start-force|
                                stop-force}).

((enjoy))

Your OTRS Team
http://otrs.org/

otrs-sles:~ #
```

Script: Command to install OTRS.

The OTRS installation is done. Start your web server to load the OTRS specific changes in its configuration, as shown in the script below. Also run **chkconfig** to make sure OTRS is automatically started when the server reboots.

```
otrs-sles:~ # chkconfig -a apache2
apache2          0:off 1:off 2:off 3:on  4:off 5:on  6:off
otrs-sles:~ # rcapache2 start
Starting httpd2 (prefork) httpd2-prefork: Could not reliably determine the server's fully
qualified domain name, using 10.x.x.x for ServerName

done
otrs-sles:~ #
```

Script: Starting the web server.

1.1.3. Installation of additional perl modules

OTRS needs some more modules than can be installed by the RPM. You can post-install them manually. You can check what modules you are missing by running the bin/

otrs.CheckModules.pl script located in the /opt/otrs directory. Some modules are only needed for optional functionality, such as communication with IMAP(S) servers or PDF generation. On SLES you should add an external repository to the zypper configuration in order to get the modules needed for your system. Choose the module needed for your OS version from here: <http://download.opensuse.org/repositories/devel:/languages:/perl/>. Add the repository like this for SLES 11 SP2:

```
zypper ar -f -n perl http://download.opensuse.org/repositories/devel:/languages:/perl/SLE_11_SP2 Perl
```

On openSUSE 12.3 the extra repository is only needed for the Mail::IMAPClient module, which you'd only need if you need to collect mails from an IMAP server secured with TLS. The corresponding line would look like this:

```
zypper ar -f -n perl http://download.opensuse.org/repositories/devel:/languages:/perl/openSUSE_12.3/ Perl
```

The first time you use zypper after you added this repository, you will be prompted to add its key. Now you can install missing modules like below.

```
otrs-sles:/opt/otrs # zypper install -y "perl(YAML::LibYAML)"
Refreshing service 'susecloud'.
Retrieving repository 'perl' metadata [\]

New repository or package signing key received:
Key ID: DCCA98DDDEF338C
Key Name: devel:languages:perl OBS Project <devel:languages:perl@build.opensuse.org>
Key Fingerprint: 36F0AC0BCA9D8AF2871703C5DCCA98DDDEF338C
Key Created: Wed Oct 10 22:04:18 2012
Key Expires: Fri Dec 19 22:04:18 2014
Repository: perl

Do you want to reject the key, trust temporarily, or trust always? [r/t/a/?] (r): a
Retrieving repository 'perl' metadata [done]
Building repository 'perl' cache [done]
Loading repository data...
Reading installed packages...
'perl(YAML::LibYAML)' not found in package names. Trying capabilities.
Resolving package dependencies...

The following NEW package is going to be installed:
perl-YAML-LibYAML

The following package is not supported by its vendor:
perl-YAML-LibYAML

Retrieving package perl-YAML-LibYAML-0.38-12.4.x86_64 (1/1), 75.0 KiB (196.0 KiB unpacked)
Retrieving: perl-YAML-LibYAML-0.38-12.4.x86_64.rpm [done (55.7 KiB/s)]
Installing: perl-YAML-LibYAML-0.38-12.4 [done]
```

The next step is to configure OTRS using the web installer, as described in this section.

1.2. Installing OTRS on a Red Hat Enterprise Linux or CentOS system

This section describes the installation of our RPM package on a Red Hat Enterprise Linux (RHEL) or CentOS server. For OTRS 3.3 and up, RHEL 6 or CentOS 6 is a requirement, version 5 is not supported. Before you start the installation, please visit <http://www.otrs.com/downloads> and make sure you use the latest OTRS RPM package available.

1.2.1. Preparing the database for OTRS

You can use OTRS using different database back-ends: MySQL, PostgreSQL, Oracle or Microsoft SQL Server. The most popular database to deploy OTRS on is MySQL. This chapter shows the steps you need to take to configure MySQL on a RHEL-based server. Of course you can install the database on a dedicated database server if needed for scalability or other purposes.

Install MySQL by executing the following command as root:

```
[root@otrs-centos6 ~]# yum -y install mysql-server
```

This will install MySQL with the default options on your system. You'll need to change the defaults in order to make it suitable for OTRS. With a text editor open the file `/etc/my.cnf` and add the next two lines under the `[mysqld]` section:

```
max_allowed_packet=20M
query_cache_size=32M
```

Now execute **service mysqld start** to re-start the database server and activate these changes. Then run **/usr/bin/mysql_secure_installation** and follow the on-screen instructions to set a database root password, remove anonymous access and remove the test database. Lastly, run **chkconfig mysqld on** in order to make sure mysql is automatically started at server startup time.

1.2.2. Installing OTRS

Install OTRS with via the command line using **yum**. This will also pull in some dependencies such as the apache web server and some Perl modules. Make sure you copied the OTRS RPM file to the current directory.

```
[root@otrs-centos6 ~]# yum install --nogpgcheck otrs-3.3.*.rpm
...
Dependencies Resolved
```

Package	Arch	Version	Repository	Size
Installing:				
otrs	noarch	3.3.3-01	/otrs-3.3.3-01.noarch	74 M
Installing for dependencies:				
apr	x86_64	1.3.9-5.el6_2	updates	123 k
...				
procmail	x86_64	3.22-25.1.el6	base	163 k

```
Transaction Summary
-----
Install      26 Package(s)

Total size: 80 M
Total download size: 6.0 M
Installed size: 88 M
Downloading Packages:
(1/25): apr-1.3.9-5.el6_2.x86_64.rpm | 123 kB  00:00
...
(25/25): procmail-3.22-25.1.el6.x86_64.rpm | 163 kB  00:00
-----
Total                               887 kB/s | 6.0 MB  00:06
Running rpm_check_debug
```

```
Running Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing : apr-1.3.9-5.el6_2.x86_64                1/26
  ...
  Installing : otrs-3.3.3-01.noarch                    26/26
Check OTRS user ... otrs added.

Next steps:

[httpd services]
Restart httpd 'service httpd restart'

[install the OTRS database]
Make sure your database server is running.
Use a web browser and open this link:
http://myserver.example.com/otrs/installer.pl

[OTRS services]
Start OTRS 'service otrs start' (service otrs {start|stop|status|restart}).

((enjoy))

Your OTRS Team

Installed:
  otrs.noarch 0:3.3.3-01

Dependency Installed:
  ...

Complete!
[root@otrs-centos6 ~]#
```

Script: Command to install OTRS.

The OTRS installation is complete. Now you should make sure that Apache is started and that it starts whenever the server reboots.

```
[root@otrs-centos6 ~]# chkconfig httpd on
[root@otrs-centos6 ~]# service httpd start
Starting httpd: httpd: Could not reliably determine the server's fully qualified domain
name, using 10.x.x.x for ServerName [ OK ]
[root@otrs-centos6 ~]#
```

Script: Starting the web server.

1.2.3. Installation of additional perl modules

OTRS needs some more modules than can be installed by the RPM. You can post-install them manually. You can check what modules you are missing by running the `bin/otrs.CheckModules.pl` script located in the `/opt/otrs` directory. Some modules are only needed for optional functionality, such as communication with IMAP(S) servers or PDF generation. On Red Hat or CentOS we recommend installing these modules from the EPEL repository, a repository maintained by the Fedora project, which provides high quality packages for RHEL and derivatives. Check for more information [the EPEL web site](#).

If you're on RHEL 6 or CentOS 6, you can get the latest package for EPEL from [this site](#). You can add this repository to yum it in one go by copying the RPM URL you find on this page and executing this command:

```
[root@otrs-centos6 otrs]# yum -y install http://download.fedoraproject.org/pub/epel/6/i386/epel-release-6-8.noarch.rpm
Loaded plugins: security
```

```

Setting up Install Process
epel-release-6-8.noarch.rpm | 14 kB 00:00
Examining /var/tmp/yum-root-7jrJef/epel-release-6-8.noarch.rpm: epel-release-6-8.noarch
Marking /var/tmp/yum-root-7jrJef/epel-release-6-8.noarch.rpm to be installed
Resolving Dependencies
--> Running transaction check
---> Package epel-release.noarch 0:6-8 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
epel-release noarch 6-8 /epel-release-6-8.noarch 22 k

Transaction Summary
=====
Install 1 Package(s)

Total size: 22 k
Installed size: 22 k
Downloading Packages:
Running rpm_check_debug
Running Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing : epel-release-6-8.noarch 1/1
  Verifying : epel-release-6-8.noarch 1/1

Installed:
epel-release.noarch 0:6-8

Complete!
[root@otrs-centos6 otrs]#

```

The first time you use yum after you added this repository, you will be prompted to add its key. Now you can install missing modules like below.

```

[root@otrs-centos6 otrs]# yum -y install "perl(Text::CSV_XS)"
Loaded plugins: security
Setting up Install Process
Resolving Dependencies
--> Running transaction check
---> Package perl-Text-CSV_XS.x86_64 0:0.85-1.el6 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
perl-Text-CSV_XS x86_64 0.85-1.el6 epel 71 k

Transaction Summary
=====
Install 1 Package(s)

Total download size: 71 k
Installed size: 154 k
Downloading Packages:
perl-Text-CSV_XS-0.85-1.el6.x86_64.rpm | 71 kB 00:00
warning: rpmts_HdrFromFdno: Header V3 RSA/SHA256 Signature, key ID 0608b895: NOKEY
Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-6
Importing GPG key 0x0608B895:
  Userid : EPEL (6) <epel@fedoraproject.org>
  Package: epel-release-6-8.noarch (@/epel-release-6-8.noarch)
  From : /etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-6

```

```
Is this ok [y/N]: y
Running rpm_check_debug
Running Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing : perl-Text-CSV_XS-0.85-1.el6.x86_64                1/1
  Verifying  : perl-Text-CSV_XS-0.85-1.el6.x86_64                1/1

Installed:
  perl-Text-CSV_XS.x86_64 0:0.85-1.el6

Complete!
[root@otrs-centos6 otrs]#
```

The next step is to configure OTRS using the web installer, as described in this section.

1.2.4. Installation of Oracle database driver on Red Hat / CentOS

If you want to deploy OTRS on an Oracle database, you'll need to compile and install the DBD::Oracle database driver. This is slightly more complicated than installing any of the other packages; this is because Oracle is a proprietary database and Red Hat nor the CentOS project are allowed to distribute drivers in their RPM repositories.

First of all, we'd need to install gcc, make and CPAN so we can compile and install the driver. Below you see the command on CentOS; on other versions it might look a little different.

```
[root@otrs-centos6 otrs]# yum -y install gcc make "perl(CPAN)"
```

The next step is to obtain and install the database client. For this you would need to sign up for a free account at the Oracle website. You can download the drivers from this page: <http://www.oracle.com/technetwork/database/features/instant-client/index-097480.html> Please choose the Linux x86 or x86-64 version corresponding to the architecture of your system. You can check this with the **uname -i**. It is either 'x86_64' for x86-64 or 'i386' for x86. You should download the packages 'Instant Client Package - Basic', 'Instant Client Package - SQL*Plus', and 'Instant Client Package - SDK'. Save them to a location on your disk. Now as the root user you can install the packages using the following command:

```
[root@otrs-centos6 otrs]# yum install oracle-instantclient*
```

After this you should set two environment variables and compile the DBD::Oracle driver. Again, perform these tasks as the root user. The steps are outlined below. Please note that for brevity some lines outputted by the commands have been removed.

```
[root@otrs-centos6 otrs]# export ORACLE_HOME=/usr/lib/oracle/11.2/client64
[root@otrs-centos6 otrs]# export LD_LIBRARY_PATH=$ORACLE_HOME/lib
[root@otrs-centos6 otrs]# cpan
cpan[1]> look DBD::Oracle
...
Fetching with LWP:
  http://www.perl.org/CPAN/authors/id/P/PY/PYTHIAN/CHECKSUMS
Checksum for /root/.cpan/sources/authors/id/P/PY/PYTHIAN/DBD-Oracle-1.62.tar.gz ok
Scanning cache /root/.cpan/build for sizes
DONE
...
Working directory is /root/.cpan/build/DBD-Oracle-1.62-ZH6LNy
[root@localhost DBD-Oracle-1.62-ZH6LNy]# perl Makefile.PL
```

```
...
[root@localhost DBD-Oracle-1.62-ZH6LNy]# make
...
[root@localhost DBD-Oracle-1.62-ZH6LNy]# make install
...
cpan[2]> exit
Terminal does not support GetHistory.
Lockfile removed.
```

Now you should edit the file `Kernel/Config.pm` to provide `ORACLE_HOME`. The next step is to configure OTRS using the web installer, as described in this section.

1.3. Installing OTRS on a Debian or Ubuntu system

Important

Please install OTRS from source, and do not use the OTRS packages that Debian/Ubuntu provides.

The installation of required Perl modules is easier if you use the available packages:

```
apt-get install libapache2-mod-perl2 libdbd-mysql-perl libtimedate-perl libnet-dns-perl \
  libnet-ldap-perl libio-socket-ssl-perl libpdf-api2-perl libdbd-mysql-perl libsoap-lite-
perl \
  libgd-text-perl libtext-csv-xs-perl libjson-xs-perl libgd-graph-perl libapache-dbi-perl
```

1.4. Installing OTRS on Microsoft Windows systems

1.4.1. Using the Windows Installer

Installing OTRS on a Microsoft Windows system is very easy. Download the latest installer for Win32 from <http://www.otrs.com/try/> and save the file to your local file system. Then simply double-click on the file to execute the installer, and follow the few installation steps to setup the system. The installation wizard will take care of installing all components for OTRS. The next step is to configure OTRS using the web installer, as described in this section.

Important

The Windows installer for OTRS contains all needed components for OTRS, i.e. the Apache web server, the MySQL database server, Perl (with all needed modules) and cron for Windows. However you can also use it to set up OTRS on the Microsoft IIS Web Server instead of on Apache. Also you can choose to not let it install the bundled MySQL, for instance if you want to deploy on a central MySQL database; a PostgreSQL database, on Microsoft SQL Server or on Oracle.

1.4.2. Installation of Oracle database driver on Windows

If you install OTRS using the Windows Installer, it will automatically configure all Perl modules you will typically need. There is one exception to this: if you need to deploy OTRS on an Oracle database, you'll need to post-install the Oracle driver. This is needed because

there is no open source driver for Oracle available; we are not allowed to redistribute it in the OTRS package. There are two different perls you can use on Windows; you can choose the bundled Strawberry Perl, which is the default option and is recommended for proof-of-concept setups; or you can choose Active State perl which is a separate download and install. This last option is recommended for production setups.

1.4.2.1. Installation of DBD::Oracle on ActiveState Perl

If you have installed ActiveState Perl it already comes with the Perl database driver DBD::Oracle only this should be linked to the Oracle C client. OTRS only works on 32-bit ActiveState Perl. This means you should also download the 32-bit Oracle client. Navigate to the Oracle client web site [Instant Client Downloads for Microsoft Windows \(32-bit\)](#) and choose 'Instant Client Package - Basic'. You'll need to sign up for a free Oracle Web account in order to download the software. Extract the download, a zip file, to the root of your drive, for instance C:\instantclient_11_2.

Now you should add the client libraries to your path and set an environment variable; 'ORACLE_HOME'. Navigate to Control Panel > System and Security > System, choose 'Advanced System Settings', click on 'New' under 'System variables', enter 'ORACLE_HOME' as Variable Name and use 'C:\instantclient_11_2' as the Variable Value. Select the 'PATH' variable, and append the directory 'C:\instantclient_11_2' to the path. If you now start a new cmd.exe session and run the otrs.CheckModules.pl script located in the OTRS directory, you should see that the DBD::Oracle driver is successfully installed. After this, you should restart the system in order for the other applications to detect the new environment variables.

1.4.2.2. Installation of DBD::Oracle on Strawberry Perl

In order to compile the DBD::Oracle module, you need to have installed the components of the OTRS web installer in a path without spaces. It should NOT be in C:\Program Files \OTRS but it should rather be in C:\OTRSComponents or similar.

On Strawberry Perl you should compile the Oracle driver manually. The OTRS Windows Installer bundles 32-bit Strawberry Perl. This means you should also download the 32-bit Oracle client. Navigate to the Oracle client web site [Instant Client Downloads for Microsoft Windows \(32-bit\)](#) and download the packages 'Instant Client Package - Basic', 'Instant Client Package - SQL*Plus', and 'Instant Client Package - SDK'. You'll need to sign up for a free Oracle Web account in order to download the software. Extract the downloads, all zip files, to the root of your drive, for instance C:\instantclient_11_2.

Now you should add the client libraries to your path and set an environment variable; 'ORACLE_HOME'. Navigate to Control Panel > System and Security > System, choose 'Advanced System Settings', click on 'New' under 'System variables', enter 'ORACLE_HOME' as Variable Name and use 'C:\instantclient_11_2' as the Variable Value. Select the 'PATH' variable, and append the directory 'C:\instantclient_11_2' to the path. After this, you should restart the system in order for the other applications to detect the new environment variables.

Now you can compile and install the DBD::Oracle module. For this, open a cmd.exe window, and start the cpan client. Download and extract DBD::Oracle via **look DBD::Oracle**, then type **perl Makefile.PL**, **dmake** and **dmake install**. Sample output is below.

```
C:\Users\max>cpan
cpan shell -- CPAN exploration and modules installation (v1.9800)
Enter 'h' for help.

cpan> look DBD::Oracle
```

```
Database was generated on Thu, 16 May 2013 14:52:41 GMT
Running look for module 'DBD::Oracle'

Trying to open a subshell in the build directory...
....
C:\OTRSCO~1\StrawberryPerl\cpan\build\DBD-Oracle-1.62-kq6los>perl Makefile.PL
Using DBI 1.623 (for perl 5.016003 on MSWin32-x86-multi-thread) installed in C:/
OTRSComponents/StrawberryPerl/perl/vendor/lib/auto/DBI/

Configuring DBD::Oracle for perl 5.016003 on MSWin32 (MSWin32-x86-multi-thread)

...
Checking if your kit is complete...
Looks good
LD_RUN_PATH=c:/instantclient_11_2/lib;c:/instantclient_11_2/rdbms/lib
Using DBD::Oracle 1.62.
Using DBD::Oracle 1.62.
Using DBI 1.623 (for perl 5.016003 on MSWin32-x86-multi-thread) installed in C:/
OTRSComponents/StrawberryPerl/perl/vendor/lib/auto/DBI/
Writing Makefile for DBD::Oracle
Writing MYMETA.yml and MYMETA.json
...

C:\OTRSCO~1\StrawberryPerl\cpan\build\DBD-Oracle-1.62-kq6los>dmake
... lots of output and compiler warnings ...

C:\OTRSCO~1\StrawberryPerl\cpan\build\DBD-Oracle-1.62-kq6los>dmake install
Files found in blib\arch: installing files in blib\lib into architecture depende
nt library tree
Installing C:\OTRSCO~1\StrawberryPerl\perl\site\lib\auto\DBD\Oracle\dbdimp.h
...
Appending installation info to C:\OTRSCO~1\StrawberryPerl\perl\lib\perllocal.pod

C:\OTRSCO~1\StrawberryPerl\cpan\build\DBD-Oracle-1.62-kq6los>exit

cpan> quit
Lockfile removed.

C:\Users\max>
```

1.4.2.3. Configure OTRS using the Web Installer

The web installer may be used to configure basic OTRS settings as described in this section.

2. Installation from source (Linux, Unix)

2.1. Preparing the installation from source

If you want to install OTRS from source, first download the source archive as .tar.gz, .tar.bz2, or .zip file from <http://www.otrs.com/try/>

Unpack the archive (for example, using **tar**) into the directory /opt, and rename the directory from otrs-x.x.x to otrs (see Script below).

```
linux:/opt# tar xf /tmp/otrs-x.x.x.tar.gz
linux:/opt# mv otrs-x.x.x otrs
linux:/opt# ls
otrs
linux:/opt#
```

Script: First steps to install OTRS.

OTRS should NOT be run with root rights. Next you should add a new user for OTRS. The home directory of this new user should be /opt/otrs. If your web server is not running with the same user rights as the new 'otrs' user, which is the case on most systems, you will need to add the new 'otrs' user to the group of the web server user (see Script below).

```
linux:/opt# useradd -r -d /opt/otrs/ -c 'OTRS user' otrs
linux:/opt# usermod -G www otrs
linux:/opt#
```

(SUSE=www, Red Hat/CentOS/Fedora=apache, Debian/Ubuntu=www-data)

Script: Adding a new user 'otrs', and adding it to a group.

Next, you have to copy some sample configuration files. The system will later use the copied files. The files are located in /opt/otrs/Kernel and /opt/otrs/Kernel/Config and have the suffix .dist (see Script below).

```
linux:/opt# cd otrs/Kernel/
linux:/opt/otrs/Kernel# cp Config.pm.dist Config.pm
linux:/opt/otrs/Kernel# cd Config
linux:/opt/otrs/Kernel/Config# cp GenericAgent.pm.dist GenericAgent.pm
```

Script: Copying some sample files.

The last step to prepare the installation of OTRS is to set the proper access rights for the files. You can use the script **otrs.SetPermissions.pl**, which is located in the bin directory, in the home directory of the 'otrs' user. You can execute the script with the following parameters:

```
otrs.SetPermissions.pl {Home directory of the OTRS user} { --otrs-user= OTRS user} { --web-user= Web server user} [ --otrs-group= Group of the OTRS user] [ --web-group= Group of the web server user]
```

If your web server is running with the same user rights as user 'otrs', the command to set the proper access rights is **otrs.SetPermissions.pl /opt/otrs --otrs-user=otrs --web-user=otrs**. On SUSE systems the web server is running with the user rights of 'wwwrun'. On Debian-based systems this is 'www-data'. You would use the command **otrs.SetPermissions.pl /opt/otrs --otrs-user=otrs --web-user=wwwrun --otrs-group=nogroup --web-group=www** to set the proper access rights.

2.2. Installation of Perl modules

OTRS requires some additional Perl modules, as described in Table 3-1. If you install OTRS from source, you will need to install these modules manually. This can be done either with the package manager of your Linux distribution (yast, apt-get) or, as described in this section, through the Perl shell and CPAN. If you're using ActiveState Perl, for instance on Windows, you could use PPM, the built-in Perl Package Manager. We recommend using your package manager if possible.

You can verify which modules you need to install with **otrs.CheckModules.pl**. This script is located in the bin directory, in the home directory of the 'otrs' user (see Script below). Please note that some modules are optional.

```
linux:~# cd /opt/otrs/bin/
linux:/opt/otrs/bin# ./otrs.CheckModules.pl
  o CGI.....ok (v3.60)
  o Crypt::PasswdMD5.....ok (v1.3)
  o Crypt::SSLeay.....Not installed! (Optional - Required for Generic
Interface SOAP SSL connections.)
```

```
o CSS::Minifier.....ok (v0.01)
o Date::Format.....ok (v2.22)
o Date::Pcalc.....ok (v1.2)
...

```

Script: Checking needed modules.

You should strive to install the missing modules from your Linux distribution's package management system. By doing so, the packages will be automatically updated when new versions are available or when security issues are found. Please refer to your distribution's documentation on how to install additional packages. If the (correct version of) the module is not available from the package repositories, you can also install from CPAN, the Comprehensive Perl Archive Network.

To install one of the modules from above via CPAN, you have to execute the command **perl -e shell -MCPAN**. The Perl shell will be started in interactive mode and the CPAN module will be loaded. If CPAN is already configured, you can install the modules with the command **install** followed by the name of the module. CPAN takes care of the dependencies of a module to other Perl modules and will let you know if other modules are needed.

Execute also the commands **perl -cw bin/cgi-bin/index.pl**, **perl -cw bin/cgi-bin/customer.pl** and **perl -cw bin/otrs.PostMaster.pl** after changing into the directory `/opt/otrs`. If the output of both commands is "syntax OK", your Perl is properly set up (see Script below).

```
linux:~# cd /opt/otrs
linux:/opt/otrs# perl -cw bin/cgi-bin/index.pl
cgi-bin/installer.pl syntax OK
linux:/opt/otrs# perl -cw bin/cgi-bin/customer.pl
cgi-bin/customer.pl syntax OK
linux:/opt/otrs# perl -cw bin/otrs.PostMaster.pl
bin/otrs.PostMaster.pl syntax OK
linux:/opt/otrs#

```

Script: Syntax check.

2.3. Configuring the Apache web server

First of all, you should install the Apache2 web server and `mod_perl`; you'd typically do this from your systems package manager. Below you'll find the commands needed to set up Apache on the most popular Linux distributions.

```
# rhel / centos:
linux:# yum install httpd mod_perl

# suse:
linux:# zypper install apache2-mod_perl

# debian/ubuntu:
linux:# apt-get install apache2 libapache2-mod-perl2

```

To access the web interface of OTRS via a short URL, Alias and ScriptAlias entries are needed. Most Apache installations have a `conf.d` directory included. On Linux systems you can usually find this directory under `/etc/apache` or `/etc/apache2`. Log in as root, change to the `conf.d` directory and copy the appropriate template in `/opt/otrs/scripts/apache2-httpd.include.conf` to a file called `otrs.conf` in the Apache configuration directory.

Restart your web server to load the new configuration settings. On most systems you can start/restart your web server with the command **/etc/init.d/apache2 restart** (see Script below).

```
linux:/etc/apache2/conf.d# /etc/init.d/apache2 restart
Forcing reload of web server: Apache2.
linux:/etc/apache2/conf.d#
```

Script: Restarting the web server.

Now your web server should be configured for OTRS.

2.4. Configuring the database

2.4.1. Installing the OTRS database manually

The recommended way to configure the database is to run the Web Installer. If you can't use this for some reason, you can also configure the database manually, as described in this chapter. If you can't use the web installer to setup the OTRS database, you have to set it up manually. Scripts with the SQL statements to create and configure the database are located in `scripts/database`, in the home directory of the 'otrs' user (see Script below).

```
linux:~# cd /opt/otrs/scripts/database/
linux:/opt/otrs/scripts/database# ls
otrs-initial_insert.db2.sql      otrs-schema.mysql.sql
otrs-schema.oracle.sql
otrs-initial_insert.mssql.sql    otrs-schema-post.db2.sql
otrs-initial_insert.mysql.sql    otrs-schema.postgresql.sql
otrs-initial_insert.oracle.sql
otrs-initial_insert.postgresql.sql otrs-schema-post.mssql.sql
otrs-initial_insert.xml          otrs-schema-post.mysql.sql
otrs-schema.db2.sql             otrs-schema-post.oracle.sql
otrs-schema-post.postgresql.sql
otrs-schema.mssql.sql           otrs-schema.xml
linux:/opt/otrs/scripts/database#
```

Script: Files needed to create and configure the database.

To setup the database for the different database back-ends, the `.sql` files must be processed in a specific order.

Create the OTRS database manually step by step

1. Creating the DB: Create the database that you want to use for OTRS, with your database client or your database interface.
2. Creating the tables: With the `otrs-schema.DatabaseType.sql` files (e.g. `otrs-schema-oracle.sql`, `otrs-schema-postgresql.sql`) you can create the tables in your OTRS database.
3. Inserting the initial system data: OTRS needs some initial system data to work properly (e.g. the different ticket states, ticket and notification types). Depending on the type of database that you are using, you will need to use one of the following files: `otrs-initial_insert.mysql.sql`, `otrs-initial_insert.oracle.sql`, `otrs-initial_insert.postgresql.sql` or `otrs-initial_insert.mssql.sql` .
4. Creating references between tables: The last step is to create the references between the different tables in the OTRS database. Use the `otrs-schema-post.DatabaseType.sql` file to create these (e.g. `otrs-schema-oracle.post.sql`, `otrs-schema-post.postgresql.sql`).

After you have finished the database setup, you should check and set proper access rights for the OTRS database. It should be enough to grant access to one user. Depending on the database server you are using, setting up the access rights differs, but it should be possible either with your database client or your graphical database front-end.

If your database and the access rights are configured properly, you have to tell OTRS which database back-end you want to use and how the ticket system can connect to the database. Open the file `Kernel/Config.pm` located in the home directory of the 'otrs' user, and change the parameters shown in the script below according to your needs.

```
# DatabaseHost
# (The database host.)
$self->{'DatabaseHost'} = 'localhost';

# Database
# (The database name.)
$self->{Database} = 'otrs';

# DatabaseUser
# (The database user.)
$self->{DatabaseUser} = 'otrs';

# DatabasePw
# (The password of database user.)
$self->{DatabasePw} = 'some-pass';
```

Script: Parameters to be customized.

2.5. Setting up the cron jobs for OTRS

OTRS needs some cron jobs to work properly. The cron jobs should be run with the same user rights that were specified for the OTRS modules. That means that the cron jobs must be inserted into the crontab file of the 'otrs' user.

All scripts with the cron jobs are located in `var/cron`, in the home directory of the 'otrs' user (see Script below).

```
linux:~# cd /opt/otrs/var/cron
linux:/opt/otrs/var/cron# ls
aaa_base.dist          generic_agent.dist      rebuild_ticket_index.dist
cache.dist             pending_jobs.dist       session.dist
fetchmail.dist         postmaster.dist         unlock.dist
generic_agent-database.dist postmaster_mailbox.dist
linux:/opt/otrs/var/cron#
```

Script: Files needed to create the cron jobs.

These scripts have a suffix of '.dist'. You should copy them to files with the suffix removed. If you use bash, you might want to use the command listed in Script below.

```
linux:/opt/otrs/var/cron# for foo in *.dist; do cp $foo `basename $foo .dist`; done
linux:/opt/otrs/var/cron# ls
aaa_base          generic_agent-database.dist  rebuild_ticket_index
aaa_base.dist     generic_agent.dist          rebuild_ticket_index.dist
cache             pending_jobs                 session
cache.dist        pending_jobs.dist           session.dist
fetchmail         postmaster                   unlock
fetchmail.dist    postmaster.dist             unlock.dist
generic_agent     postmaster_mailbox
generic_agent-database postmaster_mailbox.dist
```

```
linux:/opt/otrs/var/cron#
```

Script: Copying and renaming all the files needed to create the cron jobs.

Table 3-2 describes the different cron jobs.

Table 2.1. Description of several cron job scripts.

Script	Function
aaa_base	Sets the basics for the crontab of the 'otrs' user.
cache	Removes expired cache entries from disk. Clears the loader cache for CSS and JavaScript files.
fetchmail	Used only if new mails will be fetched with fetchmail into the ticket system.
generic_agent	Executes the jobs of the GenericAgent that are not stored in the database but in own config files.
generic_agent-database	Executes the jobs of the GenericAgent that are stored in the database.
pending_jobs	Checks system for pending tickets, and closes them or sends reminders if needed.
postmaster	Checks the message queue of the ticket system, and delivers messages that are still in the queues.
postmaster_mailbox	Fetches the mails from the POP3 accounts that were specified in the admin area, in the section for "PostMaster Mail Accounts".
rebuild_ticket_index	Rebuilds the ticket index, which improves the speed of the QueueView.
session	Removes old and no longer needed session IDs.
unlock	Unlocks tickets in the system.

To setup all cron jobs, the script `bin/Cron.sh` located in the home directory of the 'otrs' user can be used. When this script is executed, it needs a parameter to specify whether you want to install, remove, or reinstall the cron jobs. The following parameters can be used:

```
Cron.sh {start} {stop} {restart} [OTRS user]
```

Because the cron jobs need to be installed in the crontab file of the 'otrs' user, you need to be logged in as 'otrs'. If you are logged in as root, you can switch to 'otrs' with the command **su otrs**. Execute the commands specified in Script below to install the cron jobs.

Warning

Please note that other crontab entries of the 'otrs' user will be overwritten or removed by the `Cron.sh` script. Please change the `Cron.sh` script to retain other crontab entries as needed.

```

linux:/opt/otrs/var/cron# cd /opt/otrs/bin/
linux:/opt/otrs/bin# su otrs
linux:~/bin$ ./Cron.sh start
/opt/otrs/bin
Cron.sh - start/stop OTRS cronjobs
Copyright (C) 2001-2009 OTRS AG, http://otrs.org/
(using /opt/otrs) done
linux:~/bin$ exit
exit
linux:/opt/otrs/bin#

```

Script: Installing the cron jobs.

The command **crontab -l -u otrs**, which can be executed as root, shows you the crontab file of the 'otrs' user, and you can check if all entries are placed correctly (see Script below).

```

linux:/opt/otrs/bin# crontab -l -u otrs
# --
# cron/aaa_base - base crontab package
# Copyright (C) 2001-2014 OTRS AG, http://otrs.com/
# --
# This software comes with ABSOLUTELY NO WARRANTY.
# --
# Who gets the cron emails?
MAILTO="root@localhost"

# --
# cron/cache - delete expired cache
# Copyright (C) 2001-2014 OTRS AG, http://otrs.com/
# This software comes with ABSOLUTELY NO WARRANTY.
# --
# delete expired cache weekly (Sunday mornings)
20 0 * * 0 $HOME/bin/otrs.CacheDelete.pl --expired >> /dev/null
30 0 * * 0 $HOME/bin/otrs.LoaderCache.pl -o delete >> /dev/null

# --
# cron/fetchmail - fetchmail cron of the OTRS
# Copyright (C) 2001-2014 OTRS AG, http://otrs.com/
# --
# This software comes with ABSOLUTELY NO WARRANTY.
# --
# fetch every 5 minutes emails via fetchmail
*/5 * * * * /usr/bin/fetchmail -a >> /dev/null

# --
# cron/generic_agent - otrs.GenericAgent.pl cron of the OTRS
# Copyright (C) 2001-2014 OTRS AG, http://otrs.com/
# --
# --
# This software comes with ABSOLUTELY NO WARRANTY.
# --
# start generic agent every 20 minutes
*/20 * * * * $HOME/bin/GenericAgent.pl >> /dev/null
# example to execute GenericAgent.pl on 23:00 with
# Kernel::Config::GenericAgentMove job file
#0 23 * * * $HOME/bin/otrs.GenericAgent.pl -c "Kernel::Config::GenericAgentMove" >> /dev/
null
# --
# cron/generic_agent - GenericAgent.pl cron of the OTRS
# Copyright (C) 2001-2014 OTRS AG, http://otrs.com/
# --
# This software comes with ABSOLUTELY NO WARRANTY.
# --
# start generic agent every 10 minutes
*/10 * * * * $HOME/bin/otrs.GenericAgent.pl -c db >> /dev/null
# --
# cron/pending_jobs - pending_jobs cron of the OTRS
# Copyright (C) 2001-2014 OTRS AG, http://otrs.com/
# --

```

```
# This software comes with ABSOLUTELY NO WARRANTY.
# --
# check every 120 min the pending jobs
45 */2 * * * $HOME/bin/otrs.PendingJobs.pl >> /dev/null
# --
# cron/postmaster - postmaster cron of the OTRS
# Copyright (C) 2001-2014 OTRS AG, http://otrs.com/
# --
# This software comes with ABSOLUTELY NO WARRANTY.
# --
# check daily the spool directory of OTRS
10 0 * * * $HOME/bin/otrs.ReprocessMails.pl >> /dev/null
# --
# cron/postmaster_mailbox - postmaster_mailbox cron of the OTRS
# Copyright (C) 2001-2014 OTRS AG, http://otrs.com/
# --
# This software comes with ABSOLUTELY NO WARRANTY.
# --
# fetch emails every 10 minutes
*/10 * * * * $HOME/bin/otrs.PostMasterMailbox.pl >> /dev/null
# --
# cron/rebuild_ticket_index - rebuild ticket index for OTRS
# Copyright (C) 2001-2014 OTRS AG, http://otrs.com/
# --
# This software comes with ABSOLUTELY NO WARRANTY.
# --
# just every day
01 01 * * * $HOME/bin/otrs.RebuildTicketIndex.pl >> /dev/null

# --
# cron/session - delete old session ids of the OTRS
# Copyright (C) 2001-2014 OTRS AG, http://otrs.com/
# --
# This software comes with ABSOLUTELY NO WARRANTY.
# --
# delete every 120 minutes old/idle session ids
55 */2 * * * $HOME/bin/otrs.DeleteSessionIDs.pl --expired >> /dev/null

# --
# cron/unlock - unlock old locked ticket of the OTRS
# Copyright (C) 2001-2014 OTRS AG, http://otrs.com/
# --
# This software comes with ABSOLUTELY NO WARRANTY.
# --
# unlock every hour old locked tickets
35 * * * * $HOME/bin/otrs.UnlockTickets.pl --timeout >> /dev/null

linux:/opt/otrs/bin#
```

Script: Crontab file.

2.6. OTRS Scheduler Service

OTRS comes with a scheduler service that is used to perform asynchronous tasks.

The OTRS RPMs will set up the Scheduler Service automatically. If you install from source, you can install the service by copying the `scripts/otrs-scheduler-linux` file to `/etc/init.d` and giving it the appropriate permissions. This will make sure the scheduler service starts when the system starts up.

3. Using the web installer

You can use the OTRS Web Installer, after you installed the OTRS software, to set up and configure the OTRS database. The Web Installer is a web page you can visit in your browser. The URL for the web installer is <http://localhost/otrs/installer.pl>.

When the web installer starts, please follow the following steps to setup your system:

1. Check out the information about the OTRS offices and click on next to continue (see figure below).

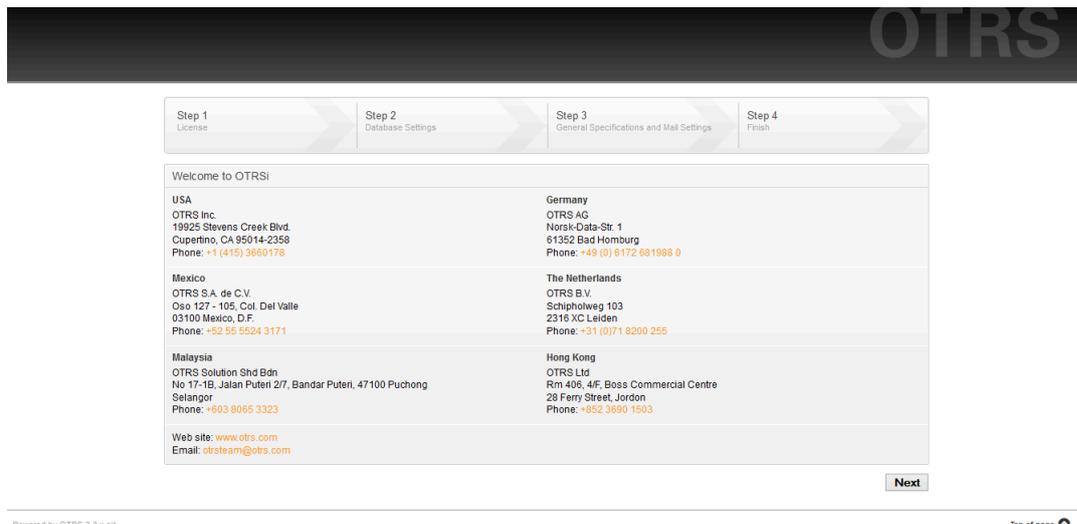


Figure: Welcome screen.

2. Read the GNU Affero General Public License (see Figure below) and accept it, by clicking the corresponding button at the bottom of the page.

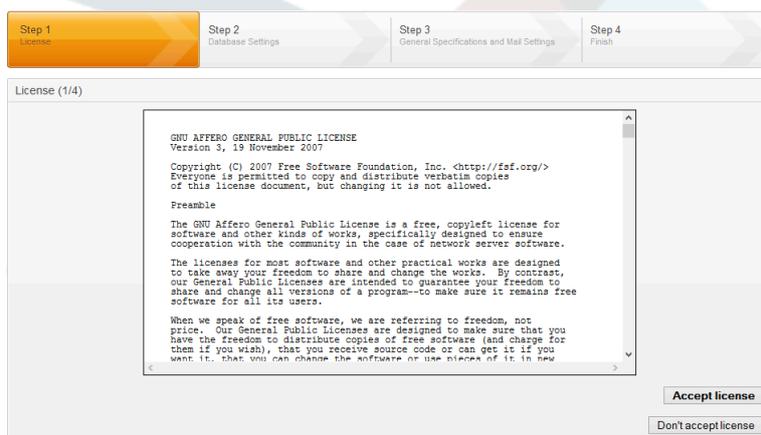


Figure: GNU Affero General Public License.

3. Choose the database that you want to use with OTRS. If you choose MySQL, PostgreSQL or Microsoft SQL Server as a database, you can also select here if you want the web installer to create a database for you or if your database administrator has already created an empty database for you that you would like to use. After that, click the Next button (see figure below).

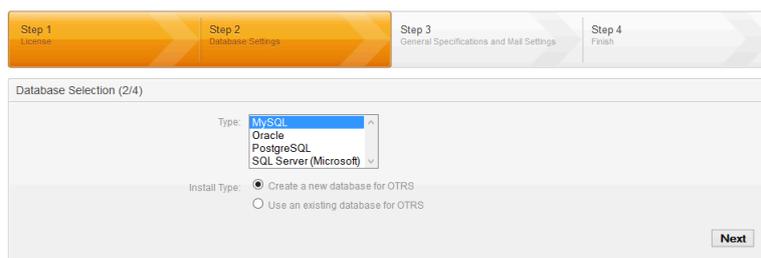


Figure: Database Selection.

4. Depending of the database you chose and if you wanted the web installer to create a database or use an existing one in the previous step, this screen might differ a little. Enter the credentials for the database in this screen.

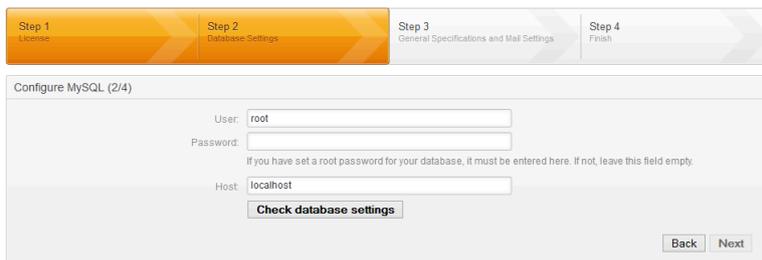


Figure: Database credentials.

5. Create a new database user, choose a name for the database and click on 'Next' (see Figure below).

Warning

OTRS will generate a strong password for you. It's possible to enter your own password if you prefer this. The password will be written to the configuration file `Kernel/Config.pm` so there is no need to remember this password.

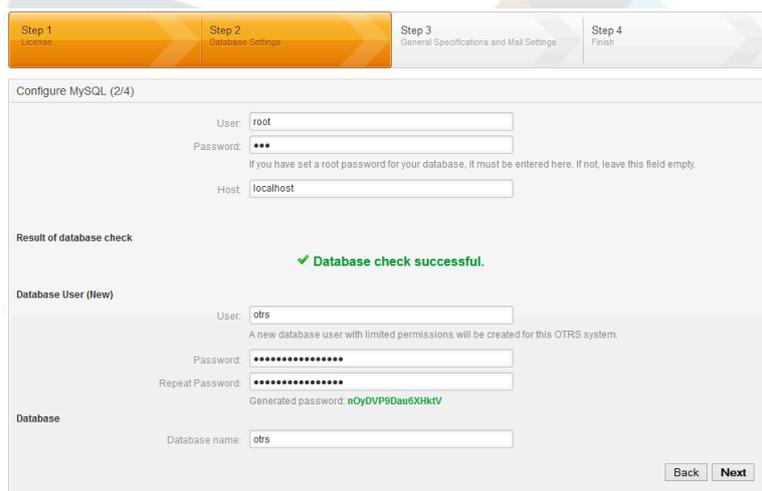


Figure: Database settings.

6. The database will be created if needed, and populated, as shown in this image. Click 'Next' to go to the next screen.

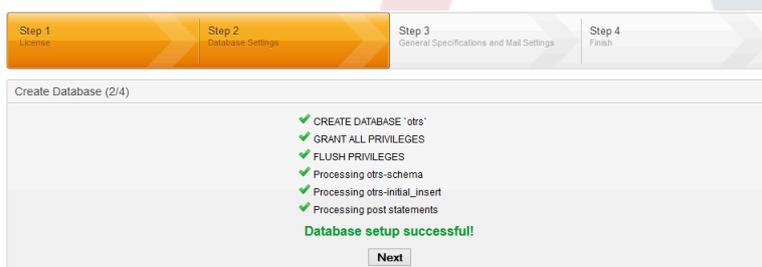


Figure: Successful database setup.

7. Provide all the required system settings and click on 'Next' (see Figure below).

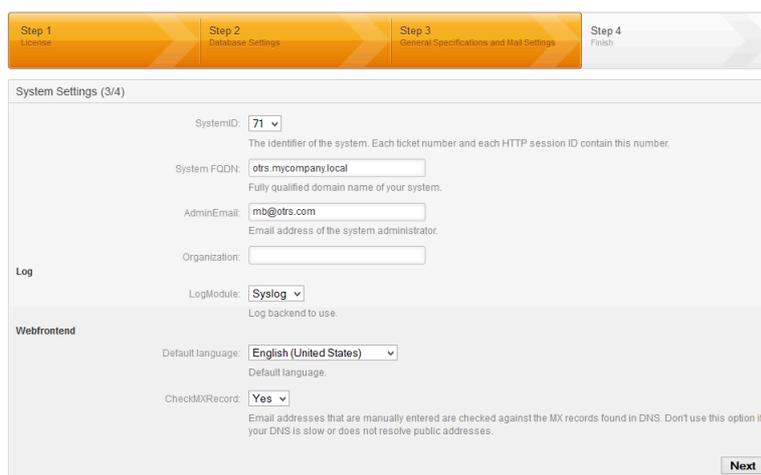


Figure: System settings.

8. If desired, you can provide the needed data to configure your inbound and outbound mail, or skip this step by pressing the right button at the bottom of the screen (see Figure below).

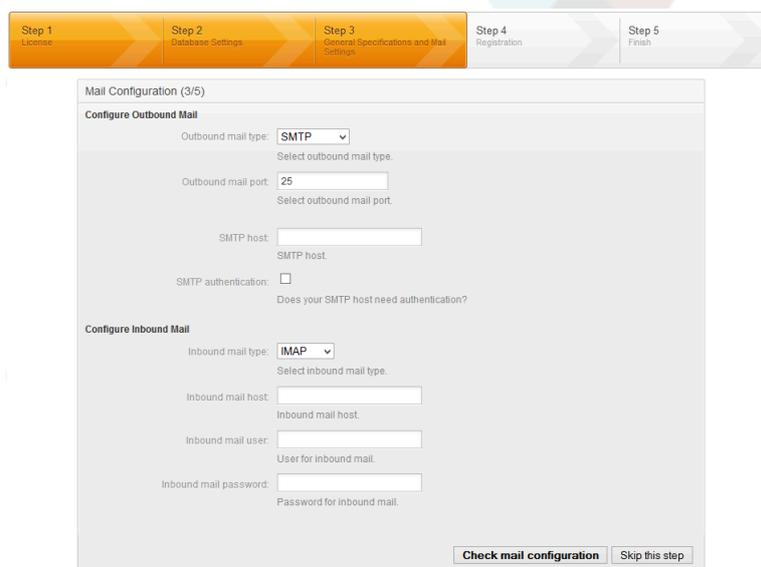


Figure: Mail configuration.

9. Congratulations! Now the installation of OTRS is finished and you should be able to work with the system (see Figure below). To log into the web interface of OTRS, use the address <http://localhost/otrs/index.pl> from your web browser. Log in as OTRS administrator, using the username 'root@localhost' and the generated password. After that, you can configure the system to meet your needs.

Warning

Please write down the generated password for the 'root@localhost' account.

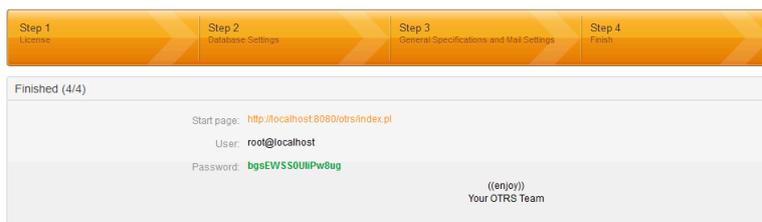


Figure: Web installer final screen.

4. Upgrading the OTRS Framework

These instructions are for people upgrading OTRS from version 3.2 to 3.3, and apply both for RPM and source code (tarball) upgrades.

Note

Please note that OTRS 3.3 requires at least perl version 5.10.0. Make sure before you plan your upgrade that your server runs this version. You can check the version with the command **perl -v** on the command line. The only known Linux distribution that uses perl 5.8 and is still supported by its vendor is Red Hat Enterprise Linux (RHEL) 5 and its community supported derivative CentOS 5. If you're on any of these platforms and you plan to upgrade to OTRS 3.3 you should also plan migrating your operating system to a version with a supported perl, such as RHEL 6 or CentOS 6.

If you are running a lower version of OTRS you have to follow the upgrade path to 3.1 first (1.1->1.2->1.3->2.0->2.1->2.2->2.3->2.4->3.0->3.1->3.2->3.3 ...)! You need to perform a full upgrade to every version in between, including database changes and the upgrading perl script.

Please note that if you upgrade from OTRS 2.2 or earlier, you must take an extra step; please read http://bugs.otrs.org/show_bug.cgi?id=6798.

Within a single minor version you can skip patch level releases if you want to upgrade. For instance you can upgrade directly from OTRS 3.3.1 to version 3.3.4. If you need to do such a "patch level upgrade", you should skip steps 9 and 13-16.

Please note that if you perform a patch level upgrade from OTRS 3.3.6 or earlier, you need to activate a new cron job that controls the scheduler process. Please copy the file `/opt/otrs/var/cron/scheduler_watchdog.dist` to `/opt/otrs/var/cron/scheduler_watchdog` and update your crontab with `/opt/otrs/bin/Cron.sh start` (as "otrs" user, not root).

1. Stop all relevant services.

e. g. (depends on used services):

```
shell> /etc/init.d/cron stop
shell> /etc/init.d/postfix stop
shell> /etc/init.d/apache stop
```

2. Backup everything below `$OTRS_HOME` (default: `OTRS_HOME=/opt/otrs`):

- `Kernel/Config.pm`
- `Kernel/Config/GenericAgent.pm`

- Kernel/Config/Files/ZZZAuto.pm
- var/*
- as well as the database

3. Make sure that you have backed up everything ;-)

4. Setup new system (optional)

If possible, try this install on a separate machine for testing first.

5. Install the new release (tar or RPM).

- With the tarball:

```
shell> cd /opt
shell> mv otrs otrs-old
shell> tar -xzf otrs-x.x.x.tar.gz
shell> mv otrs-x.x.x otrs
```

Restore old configuration files

- Kernel/Config.pm
- Kernel/Config/GenericAgent.pm
- Kernel/Config/Files/ZZZAuto.pm

Restore TicketCounter.log

In order to let OTRS continue with the correct ticket number, restore the TicketCounter.log to \$OTRS_HOME/var/log/ (default: OTRS_HOME=/opt/otrs). This is especially important if you use incremental ticketnumbers.

Restore article data

If you configured OTRS to store article data in the filesystem you have to restore the article folder to \$OTRS_HOME/var/ (default: OTRS_HOME=/opt/otrs).

- With the RPM:

```
shell> rpm -Uvh otrs-x.x.x.-01.rpm
```

In this case the RPM update automatically restores the old configuration files.

6. Own themes

Note: The OTRS themes between 3.2 and 3.3 are NOT compatible, so don't use your old themes!

Themes are located under \$OTRS_HOME/Kernel/Output/HTML/*/*.dtl (default: OTRS_HOME=/opt/otrs).

Please also note that dtl-Files must be in utf-8 from OTRS 3.3 on.

7. Set file permissions.

If the tarball is used, execute:

```
shell> cd /opt/otrs/  
shell> bin/otrs.SetPermissions.pl
```

with the permissions needed for your system setup.

8. Check needed Perl modules

Verify that all needed perl modules are installed on your system and install any modules that might be missing.

```
shell> /opt/otrs/bin/otrs.CheckModules.pl
```

9. Schema update:

Note: new tables created in the MySQL UPGRADING process will be created with the default table storage engine set in your MySQL server. In MySQL 5.5 the new default type is InnoDB. If existing tables, e.g. "users", have the table storage engine, e.g. MyISAM, then an error will be displayed when creating the foreign key constraints.

You have two options: (1) you can change the default storage engine of MySQL back to MyISAM so that new tables will have the same engine as the existing tables, or (2) change the existing tables to use InnoDB as storage engine.

Any problems with regards to the storage engine will be reported by the otrs.CheckDB.pl script, so please run it to check for possible issues.

```
shell> cd /opt/otrs/  
  
# MySQL:  
shell> bin/otrs.CheckDB.pl  
shell> cat scripts/DBUpdate-to-3.3.mysql.sql | mysql -p -f -u root otrs  
  
# PostgreSQL 8.2+:  
shell> cat scripts/DBUpdate-to-3.3.postgresql.sql | psql --set ON_ERROR_STOP=on --single-transaction otrs otrs  
  
# PostgreSQL, older versions:  
shell> cat scripts/DBUpdate-to-3.3.postgresql_before_8_2.sql | psql --set ON_ERROR_STOP=on --single-transaction otrs otrs
```

Note: If you use PostgreSQL 8.1 or earlier, you need to activate the new legacy driver for these older versions. Do this by adding a new line to your Kernel/Config.pm like this:

```
$Self->{DatabasePostgresqlBefore82} = 1;
```

Run the migration script (as user 'otrs', NOT as root):

```
shell> scripts/DBUpdate-to-3.3.pl
```

Do not continue the upgrading process if this script does not work properly for you. Otherwise data loss may occur.

10 Refresh the configuration and delete caches. Please run (as user 'otrs', NOT as 'root'):

```
shell> bin/otrs.RebuildConfig.pl
```

```
shell> bin/otrs.DeleteCache.pl
```

11 Restart your services.

e. g. (depends on used services):

```
shell> /etc/init.d/cron start  
shell> /etc/init.d/postfix start  
shell> /etc/init.d/apache start
```

Now you can log into your system.

12 Check installed packages

In the package manager, check if all packages are still marked as correctly installed or if any require reinstallation or even a package upgrade.

The following packages are automatically uninstalled after the upgrade process (if they were installed before):

- OTRSPostMasterFilterExtensions
- OTRSFreeTextFromCustomerUser
- OTRSExternalTicketNumberRecognition
- OTRSDashboardQueueOverview
- OTRSImportantArticles
- OTRSImportantArticlesITSM
- OTRSDashboardTicketCalendar
- OTRSMultiServiceSelect
- OTRSMultiQueueSelect
- OTRSDynamicFieldMultiLevelSelection
- OTRSEventBasedTicketActions
- OTRSTicketAclEditor
- OTRSCustomerProcessSelection
- OTRSACLExtensions
- OTRSGenericStandardTemplates
- OTRSExtendedDynamicDateFieldSearch
- OTRSDashboardTicketOverviewFilters

13 Check config settings of OTRSFreeTextFromCustomerUser

Note: This only applies if you used the package OTRSFreeTextFromCustomerUser previously.

If you used this module previously, you need to reconfigure it. The module is automatically uninstalled by the upgrading script as it is now a part of the OTRS framework.

If you want to keep using it, please enable the setting "Ticket::EventModule-Post###930-DynamicFieldFromCustomerUser" to activate this feature and configure the mapping in the setting "DynamicFieldFromCustomerUser::Mapping".

14 Import your ACLs to the new ACL editor (optional)

In OTRS 3.3, there is a graphical editor for ACLs in the administration interface. You will need to import your existing ACLs (e.g. in Config.pm or additional files) to the editor by using bin/otrs.ImportACLsFromConfig.pl in order to make them available in the editor. Please make sure to delete any ACLs from Config.pm (or other files) after successfully finishing the import procedure. Also you will need to use the deploy button in the ACL administration frontend in order to re-deploy the imported ACLs to your system.

15 Update your web server configuration

Note: this applies only if you use the Apache web server, and do not use the configuration file directly from the OTRS installation directory (e. g. with a symlink from the Apache configuration directory).

Please update the the Apache configuration file for OTRS as there have been several changes (see scripts/apache2-httpd.include.conf).

16 Update and activate cronjobs

There are several OTRS default cronjobs in \$OTRS_HOME/var/cron/*.dist. They can be activated by copying them without the ".dist" filename extension. Do this to make sure you get the latest versions of the cronjobs and new cronjobs as well.

```
shell> cd var/cron
shell> for foo in *.dist; do cp $foo `basename $foo .dist`; done
```

Please check the copied files and re-apply any customizations that you might have made.

To schedule these cronjobs on your system, you can use the script Cron.sh. Make sure to execute it as the OTRS system user!

```
shell> /opt/otrs/bin/Cron.sh start
```

17 Well done!

5. Upgrading Windows Installer

If you installed OTRS on Windows, it is possible to upgrade seamlessly by downloading the new Windows Installer and running it. The installer will automatically detect the OTRS installation and perform an upgrade on it. The installer will stop the OTRS services and start them after the installation is complete, so your users will experience downtime. Make sure you plan some time for the upgrade. Always make sure you have a backup of your server before you start the upgrade procedure!

5.1. Performing patch level upgrades on Windows

If you need to install a 'patch level' upgrade (i.e. from OTRS 3.3.1 to OTRS 3.3.2) on Windows all you need to do is to download and run the new installer. Of course you should make sure you have a backup in place before you start the upgrade!

5.2. Performing minor level upgrades on Windows

Minor upgrades (from OTRS 3.2 to OTRS 3.3) take a little more time as there is also a database upgrade step involved. The installer will detect this and will automatically perform the upgrade for you. After installation you should still perform steps 12, 13 and 14 of the 'regular' upgrading section.

Please note that if you have any additional packages such as Feature Add-Ons installed on your OTRS system, you'll need to upgrade these as well. Make sure you obtain these before you start the upgrade. After upgrade is complete you can upgrade these packages via the Package Installer Web GUI. Packages from the 'standard' repositories such as Survey, FAQ and ITSM can be upgraded from the Package Manager after the framework upgrade is complete.

6. Additional applications

You can install additional application packages to extend the functionality of the OTRS framework. This can be done via the package manager from the Admin page, which downloads the applications from an online repository and manages package dependencies. It is also possible to install packages from local files.

6.1. FAQ

The FAQ is the Knowledge Base component. It supports editing and viewing of FAQ articles. Articles can be viewed and restricted to agents, customer users, or anonymous users. These can also be structured into groups, and be read in different languages.

Chapter 3. First steps

The goal of this chapter is to provide a brief overview of OTRS and the structure of its web interface. The terms 'agents', 'customers', and 'administrators' are introduced. We also login as the OTRS administrator and take a closer look at the user preferences available on every account.

1. Agent web interface

The agent web interface allows agents to answer customer requests, create new tickets for customers or other agents, write tickets about telephone calls with customers, write FAQ entries, edit customer data, etc.

Supposing your OTRS host is reachable via the URL <http://www.example.com>, then the OTRS login screen can be reached by using the address <http://www.example.com/otrs/index.pl> in a web browser (see Figure below).

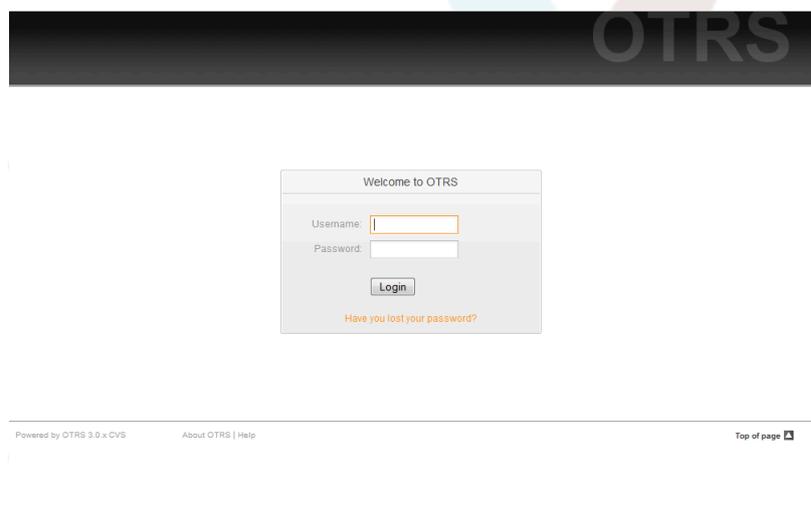


Figure: Login screen of the agent interface.

2. Customer web interface

Customers have a separate web interface in OTRS through which they can create new accounts, change their account settings, create and edit tickets, get an overview on tickets that they have created, etc.

Continuing the above example, the customer login screen can be reached by using the URL <http://www.example.com/otrs/customer.pl> with a web browser (see Figure below).

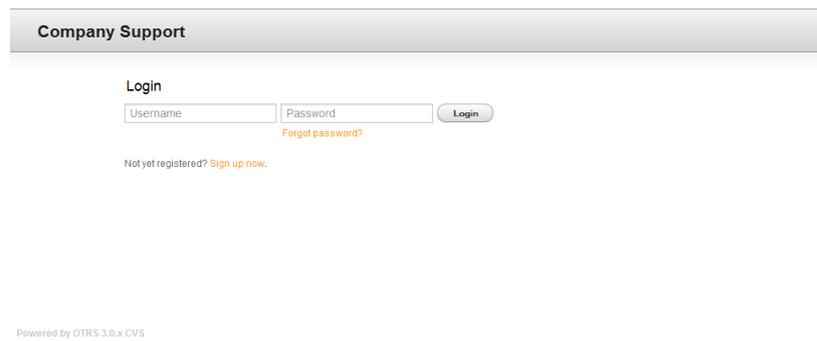


Figure: Login screen of the customer interface.

3. Public web interface

In addition to the web interfaces for agents and customers, OTRS also has a public web interface which is available through the FAQ-Module. This module needs to be installed separately. It provides public access to the FAQ system and lets visitors search through FAQ entries without any special authorization.

In our example, the public web interface can be reached via either of the following URLs: <http://www.example.com/otrs/faq.pl> , <http://www.example.com/otrs/public.pl>

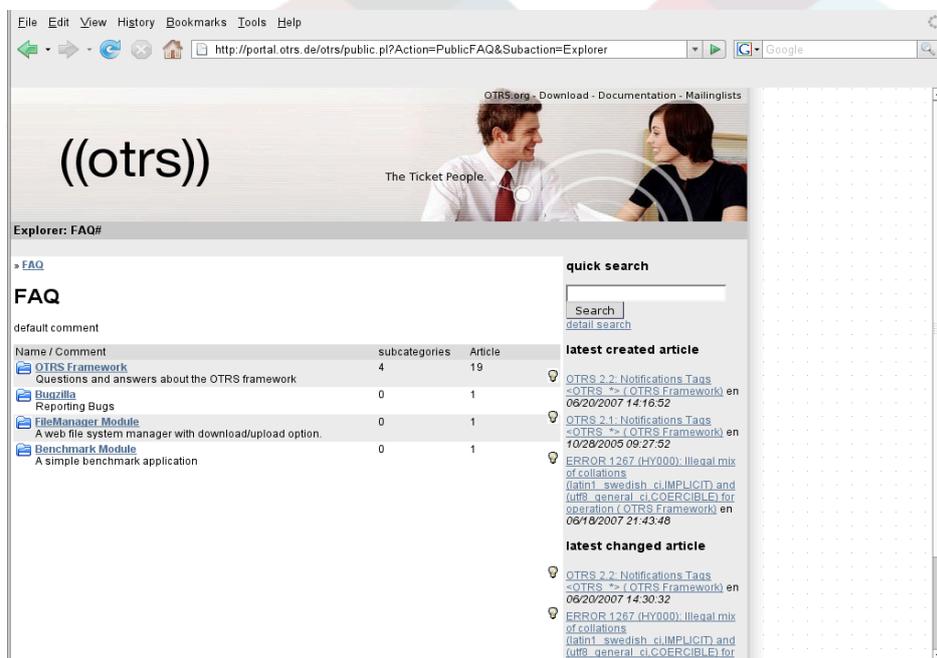


Figure: Public web interface.

4. First login

Access the login screen as described in the section Agent web interface . Enter a user name and password. Since the system has just been installed and no users have yet been

created, login as OTRS administrator first, using 'root@localhost' for username and 'root' for password.

Warning

This account data is valid on every newly installed OTRS system. You should change the password for the OTRS administrator as soon as possible! This can be done via the preferences screen for the OTRS administrator account.

If you don't want to login as OTRS administrator, just enter the user name and password for your normal agent account.

In case you have forgotten your password, you can request the system for a new password. Simply press the link below the Login button, enter the mail address that is registered for your OTRS account into the input field, and press the Submit button (see Figure).

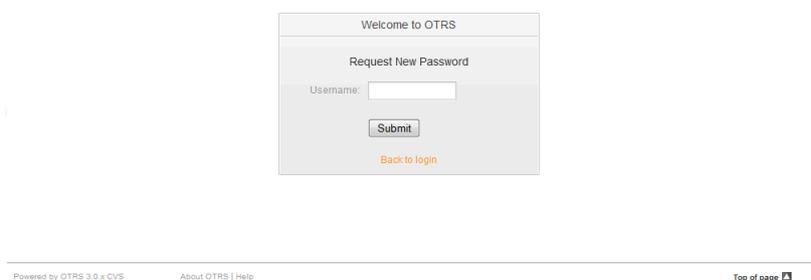


Figure: Request new password.

5. The web interface - an overview

Upon successfully logging into the system, you are presented with the Dashboard page (see Figure below). It shows your locked tickets, allows direct access through menus to the queue, status and escalation views, and also holds options for creation of new phone and e-mail tickets. It also presents a quick summary of the tickets using different criteria.

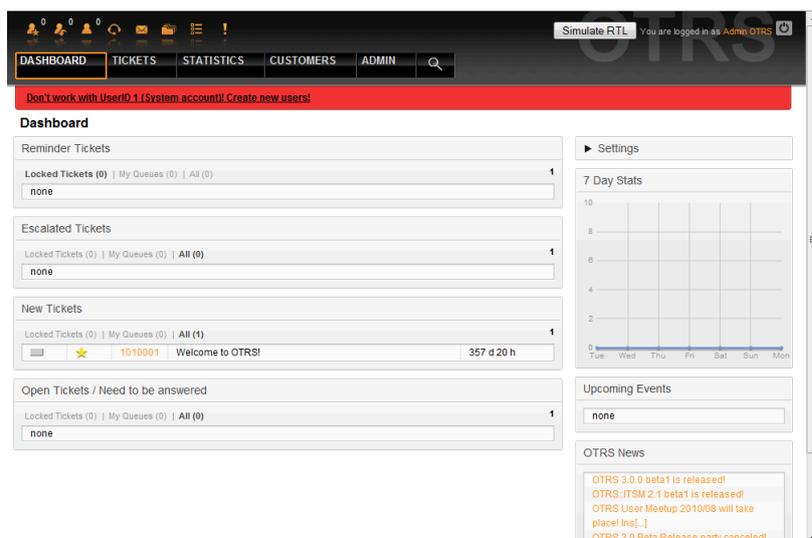


Figure: Dashboard of the agent interface.

To improve clarity, the general web interface is separated into different areas. The top row of each page shows some general information such as the current username, the logout button, icons listing the number of locked tickets with direct access to them, links to create a new phone/e-mail ticket, etc. There are also icons to go to the queue, status, and escalation views.

Below the icons row is the navigation bar. It shows a menu that enables you to navigate to different areas or modules of the system, letting you execute some global actions. Clicking on the Dashboard button takes you to the dashboard. If you click on the Tickets button, you will get a submenu with options to change the ticket's view, create a new ticket (phone/e-mail) or search for a specific ticket. The Statistics button presents a menu that allows you to choose from an overview of the registered statistics, creating a new one or importing an existing one. The Customers button leads you to the Customer Management screen. By clicking the Admin button, you can access all of the administrator modules, which allows you to create new agents, queues, etc. There is also a Search button to make ticket searches.

If any associated applications are also installed, e.g. the FAQ or the Survey, buttons to reach these applications are also displayed.

The red bar below the navigation bar shows different system messages. If you are logged in as OTRS administrator, you get a message warning you not to work using this system account.

Below the title of the section you are currently in, there are several subsections containing relevant information about the screen you are working on, each one in a separate box.

These boxes contain the main part of each screen, usually they are displayed in one or several columns, each box can store relevant information about the current screen like for example instructions, advises, overviews, etc. Also is displayed the form or tool necessary for performing the action associated to each screen, like for example, add, update or delete records, check the log, change configuration settings, etc.

Finally at the bottom of the page, the site footer is displayed (see Figure below). It contains links to directly access the OTRS official web site, or go to the Top of the page.

Normally the icon row, navigation bar and footer are the same in all the screens over the web interface.

Figure: Footer.

6. The Dashboard

The Dashboard is the main page of the system, here you can get an overview about the tickets and other stuff related to the ticket activity. It's thinking to be the starting point for the daily work of an agent, by default it presents a quick summary of the tickets which are pending, escalated, new, and open, among other information.

One of the most important features about Dashboard is that is completely customizable. That means you that can configure each part as you want, showing or hiding elements. It's even possible to relocate this elements within the same column by clicking on and dragging the element's header, and dropping them elsewhere. Each element is named "Widget", the system has some widgets ready to use out of the box, but the modular design of the dashboard screen is prepared to integrate custom widgets easily.

The content of this screen is arranged in two main columns, on the left column you normally can see information about tickets classified by their states like: reminder, escalated, new, and open. On each of this widgets you can filter the results to see all of the tickets that you are allowed to access, tickets you have locked, the ones that are located in agent defiend queues, among other filters. There are also other kind of widgets in this column and they are all described below.

Left column dashboard widgets.

- Ticket List Widgets

Widgets under this category share same overall behavior, look and feel. This widgets shows a list of tickets on a determined state. the amount of tickets display on each list page can be configured in widget options (they appear when you hover the mouse pointer over the top right part of the widget). This widgets support the following filters:

- My locked tickets

The tickets that the logged agent has locked.

- My watched tickets

The tickets that the logged agent has in his/her watched list, requires Ticket::Watcher setting to be turned on to be displayed.

- My responsibilities

The tickets that the logged agent is set as responsible, Ticket::Responsible setting is required to be turned on in order to make this filter visible.

- Tickets in My Queues

The tickets that are on queues where the agent define as "My Queues".

- All Tickets

All the tickets where the agent has access.

This widgets are:

- Reminder Tickets

Tickets that are set as pending and the reminder date has been reach.

- Escalated Tickets

Tickets that are escalated.

- New Tickets

Tickets that have state "New".

- Open Tickets / Need to be answered

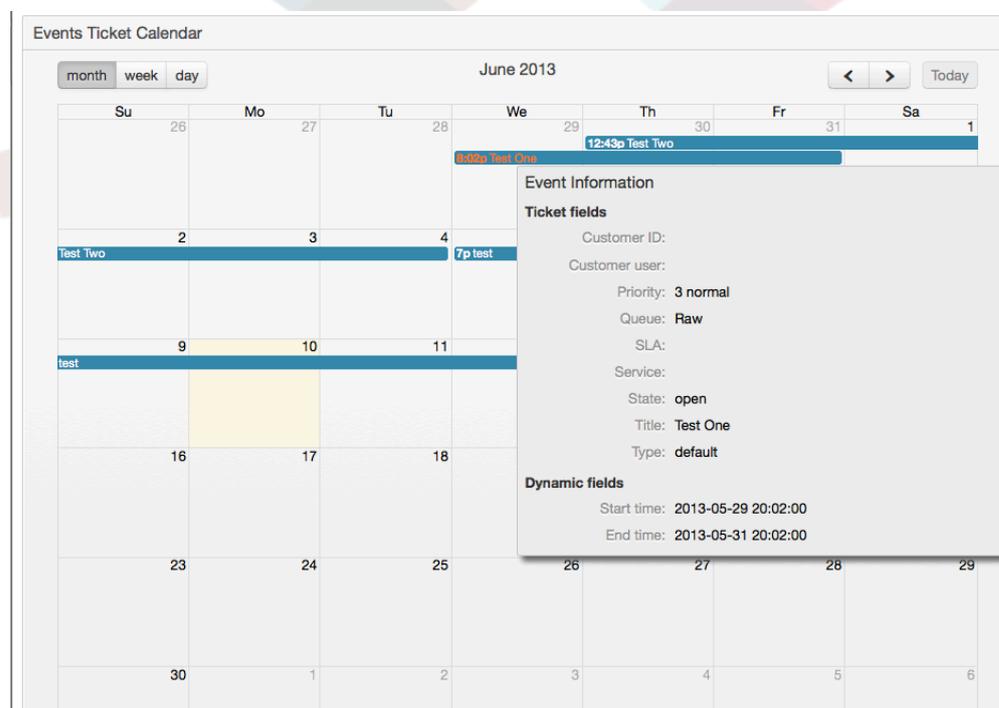
Tickets that have state "Open" and are ready for work with them.

- Events Ticket Calendar

A calendar event (for this widget) is defined when a new ticket is created, the Events Ticket Calendar feature has to be enabled, and it requires two new fields to be displayed in ticket creation screens, one for the event start time and the other one for the end time, this times determine the duration of the event.

This widget includes the following views: month, week and day, agents can scroll thru the pages by using the right and left arrows.

As mentioned before just enabling the widget is not enough, a couple of "Date/Time" dynamic fields for tickets should be added into the system (via Dynamic Fields link in "Admin" panel) and set them up in the SysConfig for this widget, both Dynamic Fields should be configured to be displayed on the ticket creation screens, they should be filled during ticket creation or any other ticket action screen (e.g. Free Fields) to describe the time frame for the calendar event (start and end time), the ticket zoom screen might be configured to show this dynamic fields also, in case you consider it necessary.



Further configurations for this widget could be found under the "Frontend::Agent::Dashboard::EventsTicketCalendar" SubGroup in the SysConfig:

- CalendarWidth

Defines the calendar width in percent. Default is 95%.

- **DynamicFieldStartTime**
Defines dynamic field name for start time.
- **DynamicFieldEndTime**
Defines dynamic field name for end time.
- **Queues**
Only the tickets on the queues specified in this setting will be considered in the calendar view.
- **DynamicFieldsForEvents**
Defines the dynamic fields that will be displayed in the calendar event overlay windows.
- **TicketFieldsForEvents**
Defines the ticket attributes that will be displayed in the calendar event overlay windows.
- **Ticket Queue Overview**
This widget shows in a ticket count matrix where the rows represents queues and the columns represents the ticket states, then on each cell the number of tickets on a defined state that belongs on a particular queue is displayed.

The widget also shows a Totals row and a Totals column, the Totals row shows the sum of the tickets for each state on all presented queues, while the Totals column represent the sum of the tickets for each queue on all presented states.

The queues and states that are presented can be changed via Sysconfig.

By clicking any of the ticket count numbers a ticket search results page will opened letting agents to have a more detailed overview of them.

In the right column is located an special widget that allow you to control the widgets you want to show or hide, This is the Settings widget. Click on it's header to expand the section and see all available widgets, as shown in Figure. Each widget name has a checkbox, Use this checkboxes to define the visibility of the widgets in the dashboard (unchecked widgets will not be shown) after you define the visibility options and click on 'Save' for storing your changes. This section is fixed on the screen, this means you can't drag and drop it, or close it.

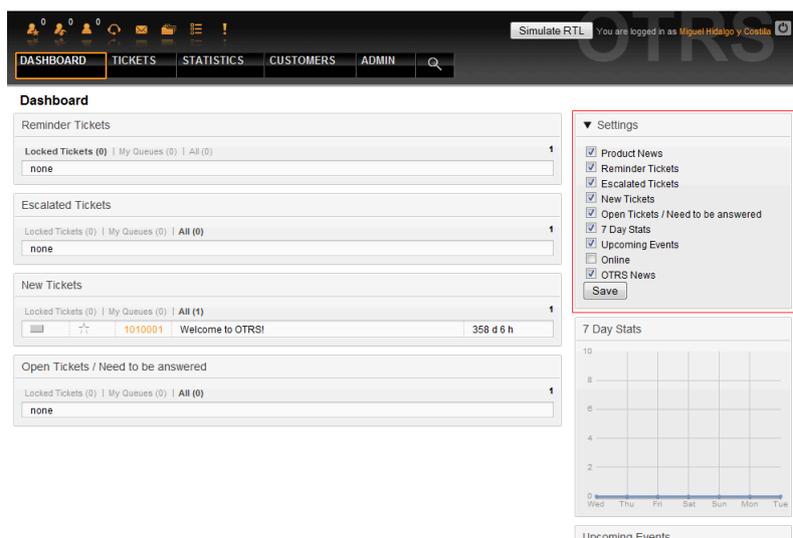


Figure: Dashboard Settings.

Right column dashboard widgets.

- 7 Day Stats

It shows a graph of ticket activity over the past 7 days that includes 2 lines. One that is usually blue color, represents the amount of created tickets per day and the second one, usually orange and represents the closed tickets per day.

- Upcoming Events

Tickets on short for escalating or already escalated are listed here, info from this widget is very helpful since you have the chance to know about tickets needs your attention and you can decide in which ones you want to focus your effort on, set priorities or simply check what's coming on.

- OTRS News

A complete list about OTRS activities and so important information about new product releases or patches.

- Online

Here is showed a summary about the current agents logged the system, it also includes a section for customers on-line, please notice this widget is normally hidden, it can be shown using Settings widget described before.

7. What is a queue?

On many mail systems, it is common for all messages to flow into an Inbox file, where they remain stored. New messages are appended at the end of the Inbox file. The mail client program used to read and write mails reads this Inbox file and presents the content to the user.

A queue in OTRS is somewhat comparable to an Inbox file, since it too can store many messages. A queue also has features beyond those of an Inbox mail file. As an OTRS agent or user, one needs to remember which queue a ticket is stored in. Agents can open and edit tickets in a queue, and also move tickets from one queue to another. But why would they move tickets?

To explain it more practically, remember the example of Max's company described in an example of a ticket system. Max installed OTRS in order to allow his team to better manage support for company customers buying video recorders.

One queue holding all requests is enough for this situation. However, after some time Max decides to also sell DVD recorders. Now, the customers have questions not only about the video recorder, but also about the new product. More and more emails get into the single queue of Max's OTRS and it's difficult to have a clear picture of what's happening.

Max decides to restructure his support system, and adds two new queues. So now three queues are being used. New messages arriving at the ticket system are stored into the old queue titled "raw". Of the two new queues, one titled "video recorder" is exclusively for video recorder requests, while the other one titled "dvd recorder" is exclusively for dvd recorder requests.

Max asks Sandra to watch the "raw" queue and sort (dispatch) the messages either into "video recorder" or "dvd recorder" queue, depending on the customer request. John only has access to the "video recorder" queue, while Joe can only answer tickets in the "dvd recorder" queue. Max is able to edit tickets in all queues.

OTRS supports access management for users, groups, and roles, and it is easy to setup queues that are accessible only to some user accounts. Max could also use another way to get his requests into the different queues, with filter rules. Otherwise, if two different mail addresses are used, Sandra only has to dispatch those emails into the two other queues, which can't be dispatched automatically.

Sorting your incoming messages into different queues helps you to keep the support system structured and tidy. Because your agents are arranged into different groups with different access rights on queues, the system can be optimized even further. Queues can be used to define work flow processes or to create the structure of a company. Max could implement, for example, another queue called "sales", which could contain the sub queues "requests", "offers", "orders", "billing", etc. Such a queue structure could help Max to optimize his order transactions.

Improved system structures, such as through the proper design of queues, can lead to significant time and cost savings. Queues can help to optimize the processes in your company.

8. What is the queue overview?

The queue overview offers a view of all queues in which tickets are present, and for which the user has RW permissions.



The queue overview offers a variety of options for daily work with OTRS. The first of these is the My Queue. In the Agent Preferences, or when administering agents, a set of queue can be defined for which the agent has been assigned to work within. All the tickets will appear in this default view, when accessing the Ticket -> Queue View menu.

The second option offered by the Queue View is a drill down navigation into individual queues and sub-queues containing tickets to be worked upon.

In both of the view types, the user also has the added ability to see either all unlocked tickets (this is the default filter), or the user can then choose to view all available tickets. Tickets must be in one of the viewable state types to be shown in the queue view. Per default, these are 'open, new, pending reminder, pending auto'.

There are visual alarms, to aid the user.



Visual Alarms

- Highlight Age 1: Sets the age in minutes (first level) for highlighting queues that contain untouched tickets. Seen in above in the "Raw" queue.
- Highlight Age 2: Sets the age in minutes (second level) for highlighting queues that contain untouched tickets. Seen in above in the "Postmaster" queue.
- Blink: Activates a blinking mechanism of the queue that contains the oldest ticket. Not supported in all browsers. In that case it will appear red, as seen in above in the "Junk" queue.
- Bold: The current queue will be bolded, as seen above in the "My Queues".

9. User preferences

OTRS users such as customers, agents and the OTRS administrator can configure their account preferences as per their needs. Agent can access the configuration screen by clicking on their login name at the top right corner of the web interface (see Figure below), and customers must click on the "Preferences" link (see Figure below).

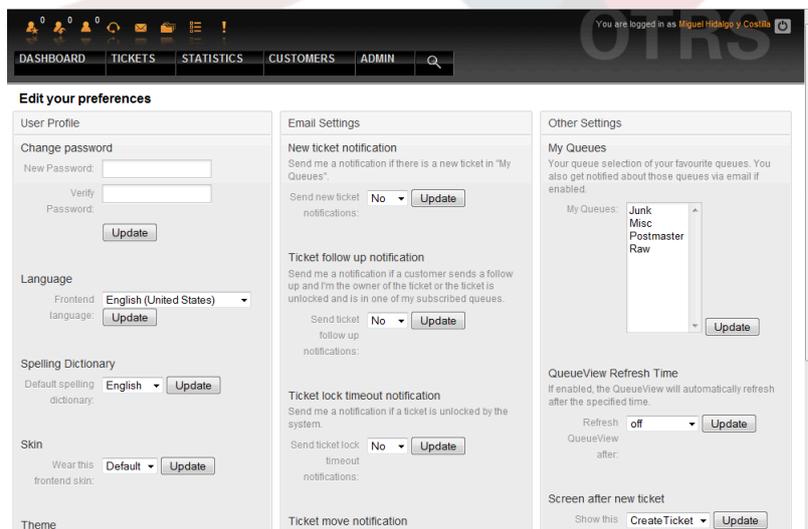


Figure: Agent's personal preferences.

An agent can configure 3 different categories of preferences: user profile, email settings, and other settings. The default possibilities are:

User Profile

- Change the current password.

- Adjust the interface language.
- Switch the frontend skin.
- Shift the frontend theme.
- Activate and configure the out-of-office time.

Email Settings

- Select events that trigger email notifications to the agent.

Other Settings

- Select the queues you want to monitor in "My Queues".
- Set the refresh period for the queue view.
- Set the screen to be displayed after a ticket is created.

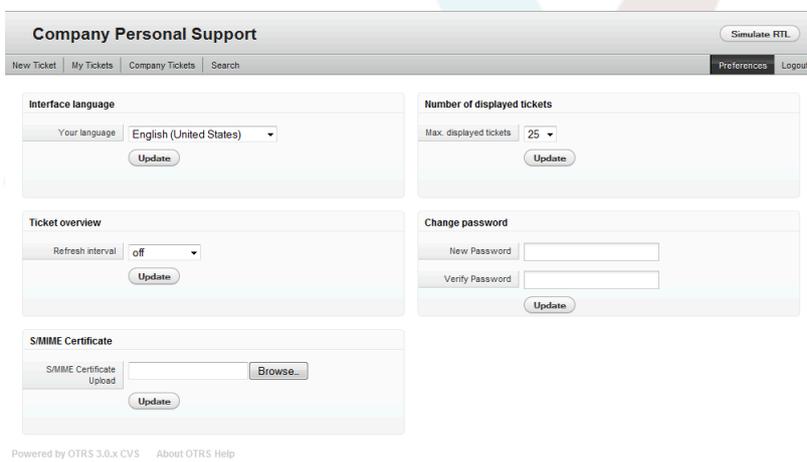


Figure: Customer's personal preferences.

A customer can select the web interface language, set the refresh interval for the ticket overview, and choose the maximum amount of shown tickets. It is also possible to set a new password.

Chapter 4. Administration

1. The ADMIN area of OTRS

1.1. Basics

The following system configuration settings are available to OTRS administrators by accessing the Admin page of the OTRS web interface - adding agents, customers and queues, ticket and mail settings, installing additional packages such as FAQ and ITSM, and much more.

Agents who are members of the *admin* group can access the Admin area by clicking the *Admin* link in the navigation bar (see Figure below). Agents without sufficiently elevated access rights will not be able to access this link.

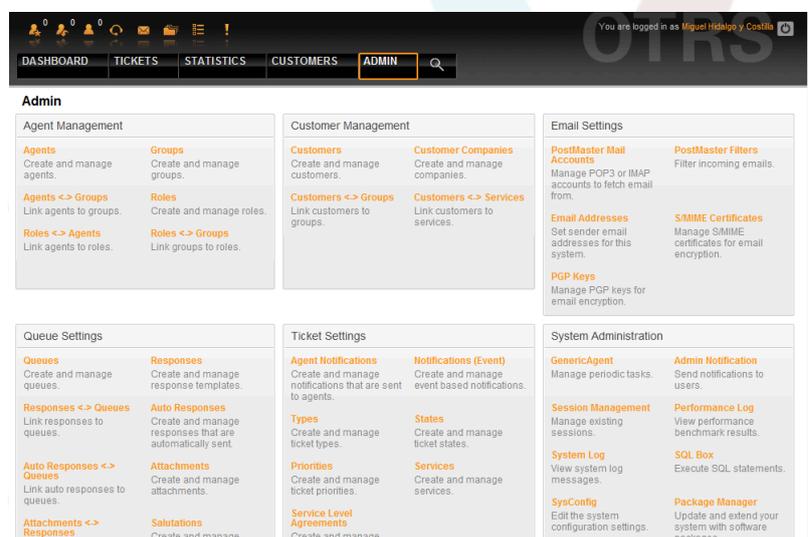


Figure: OTRS Admin screen.

1.2. Agents, Groups and Roles

1.2.1. Agents

By clicking the link *Agents*, you get access to the agent management screen of OTRS (see Figure below). Administrators can add, change or deactivate agent accounts. Furthermore they can also manage agent preferences, including the language and notification settings for the individual agent's interface.

Note

An OTRS agent account may be deactivated but not deleted. Deactivation is done by setting the Valid flag to *invalid* or *invalid-temporarily*.

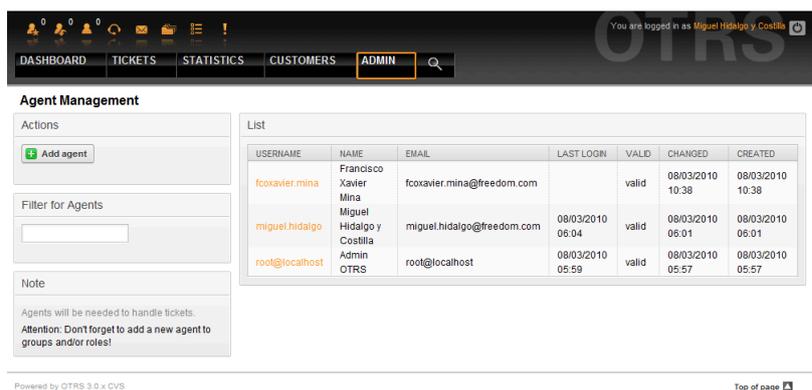


Figure: Agent management.

To register an agent, click on the "Add agent" button, enter the required data and press the Submit button at the bottom of the screen, as shown in Figure.

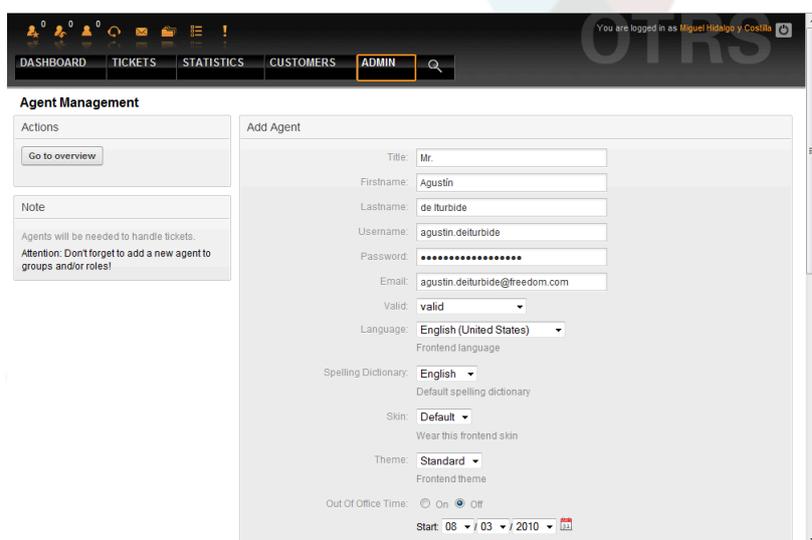


Figure: Adding a new agent.

After the new agent account has been created, you should make the agent a member of one or more groups or roles. Information about groups and roles is available in the Groups and Roles sections of this chapter.

1.2.2. Groups

Every agent's account should belong to at least one group or role. In a brand new installation, there are three pre-defined groups available, as shown in Table 5-1.

Table 4.1. Default groups available on a fresh OTRS installation

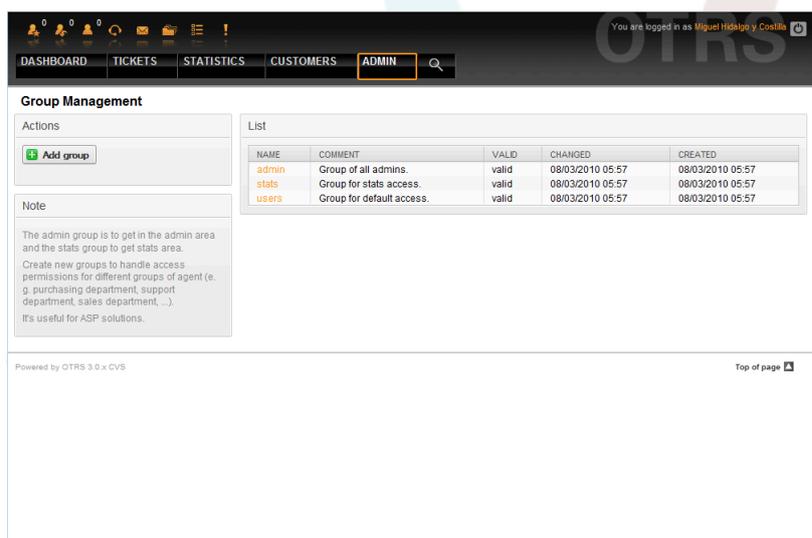
Group	Description
admin	Allowed to perform administrative tasks in the system.
stats	Qualified to access the stats module of OTRS and generate statistics.

Group	Description
users	Agents should belong to this group, with read and write permissions. They can then access all functions of the ticket system.

Note

In a brand new OTRS installation, the *users* group initially does not have any members. The agent 'root@localhost' belongs by default to the admin and stats groups.

You can access the group management page (see Figure below) by clicking the *Groups* link in the admin area.



Group Management

Actions

[Add group](#)

Note

The admin group is to get in the admin area and the stats group to get stats area.
 Create new groups to handle access permissions for different groups of agent (e.g. purchasing department, support department, sales department, ...).
 It's useful for ASP solutions.

NAME	COMMENT	VALID	CHANGED	CREATED
admin	Group of all admins.	valid	08/03/2010 05:57	08/03/2010 05:57
stats	Group for stats access.	valid	08/03/2010 05:57	08/03/2010 05:57
users	Group for default access.	valid	08/03/2010 05:57	08/03/2010 05:57

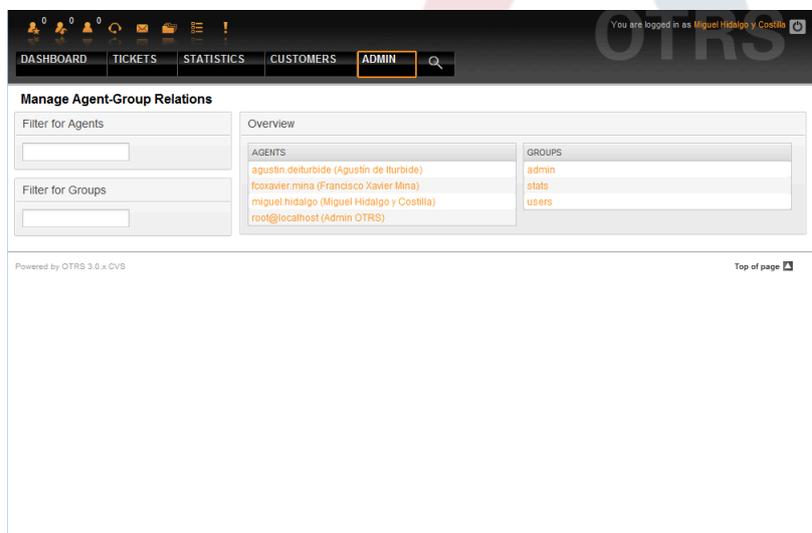
Powered by OTRS 3.0.x CVS Top of page

Figure: Group management.

Note

As with agents, an OTRS group may be deactivated but not deleted. Deactivation is done by setting the Valid flag to *invalid* or *invalid-temporarily*.

To add an agent to a group, or to change the agents who belong to a group, you can use the link *Agents <-> Groups* from the Admin page (see Figure below).



Manage Agent-Group Relations

Filter for Agents

Filter for Groups

Overview

AGENTS	GROUPS
agustin.deturbide (Agustin de Iturbide)	admin
foxavier.mina (Francisco Xavier Mina)	stats
miguel.hidalgo (Miguel Hidalgo y Costilla)	users
root@localhost (Admin OTRS)	

Powered by OTRS 3.0.x CVS Top of page

Figure: Group management.

An overview of all groups and agents in the system is displayed on this page. You can also use the available filters to find a specific entity. If you want to change the groups that an agent is a member of, just click on the agent's name (see Figure below). To change the agents associated with a group, just click on the group you want to edit (see Figure below).

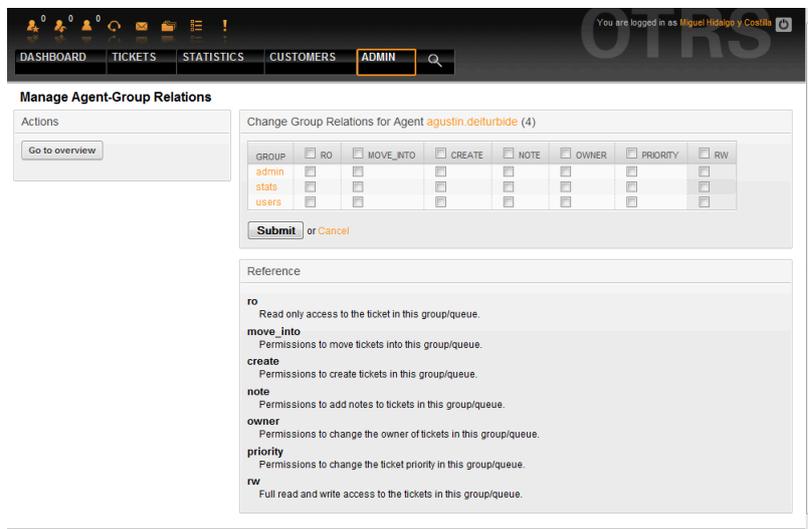


Figure: Change the groups an agent belongs to.

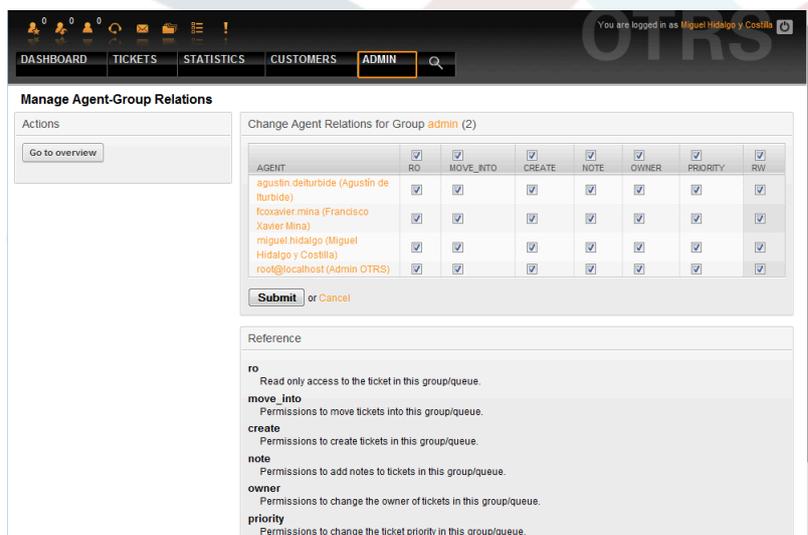


Figure: Change the agents that belong to a specific group.

Each group has a set of rights associated with it, and each group member (agent) may have some combination of these rights for themselves. A list of the permissions / rights is shown in Table 5-2.

Table 4.2. Rights associated with OTRS Groups

Right	Description
ro	Read only access to the tickets, entries and queues of this group.
move into	Right to move tickets or entries between queues or areas that belong to this group.

Right	Description
create	Right to create tickets or entries in the queues or areas of this group.
owner	Right to update the owner of tickets or entries in queues or areas that belong to this group.
priority	Right to change the priority of tickets or entries in queues or areas that belong to this group.
rw	Full read and write access on tickets or entries in the queues or areas that belong to this group.

Note

By default, the QueueView only lists tickets in queues that an agent has *rw* access to, i.e., the tickets the agent needs to work on. If you want to change this behaviour, you can set `Ticket::Frontend::AgentTicketQueue###ViewAllPossibleTickets` to `Yes`.

Not all available permissions are shown by default. These additional permissions can be added.

Table 4.3. Additional permission groups

Right	Description
stats	Gives access to the stats page.
bounce	The right to bounce an email message (with bounce button in ticketZoom).
compose	The right to compose an answer for a ticket.
customer	The right to change the customer of a ticket.
forward	The right to forward a messages (with the forward button).
pending	The right to set a ticket to pending.
phone	The right to add a phonecall to a ticket.
responsible	The right to change the responsible agent for a ticket.

Note

These permissions can be added by changing the `System::Permission`

1.2.3. Roles

Roles are a powerful feature to manage the access rights of many agents in a very simple and quick manner. They are particularly useful for large, complex support systems with a lot of agents, groups and queues. An example below explains when they should be used.

Suppose that you have a system with 100 agents, 90 of them with access to a single queue called "support" where all support requests are handled. The "support" queue contains multiple sub queues. The other 10 agents have permission to access all queues of the system. These 10 agents dispatch tickets, watch the raw queue and move spam messages into the "junk" queue.

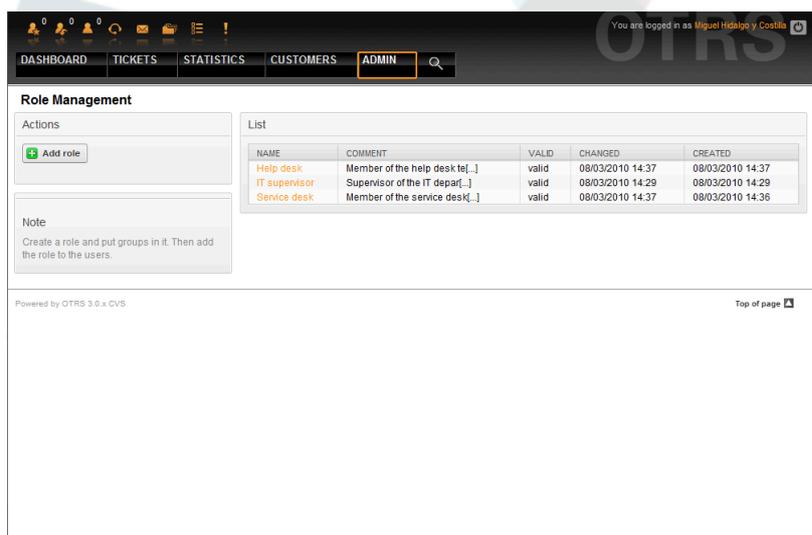
The company now opens a new department that sells some products. Order request and acceptance, order confirmation, bills, etc. must be processed, and some of the company's agents are supposed to do this using OTRS. The different agents have to get access to the new queues that must be created.

Because it would take a long time to change the access rights for the individual agents manually, roles that define the different access levels can be created. The agents can then be added to one or more roles, with their access rights being modified automatically. If a new agent account is created, it is also possible to add this account to one or more roles.

Note

Roles are really useful when dealing with complex organizations and when maintaining larger OTRS installations. Proper care is advised though. Mixing Agent to Group with Agent to Role mappings can make for a complex access control scheme, that is difficult to understand and maintain. If you wish to use only roles and disable the Agents <-> Groups option in the Admin area, you can do so by modifying the `Frontend::Module###AdminUserGroup` in the SysConfig. Be aware that this won't remove already existing Agents to Group assignments!

You can access the role management section (see Figure below) by clicking the *Roles* link on the Admin page.



The screenshot shows the OTRS Admin interface. At the top, there is a navigation bar with tabs for DASHBOARD, TICKETS, STATISTICS, CUSTOMERS, and ADMIN (which is highlighted). Below the navigation bar, the 'Role Management' section is visible. On the left, there is an 'Actions' panel with a green 'Add role' button and a 'Note' box that says 'Create a role and put groups in it. Then add the role to the users.' On the right, there is a 'List' table with the following data:

NAME	COMMENT	VALID	CHANGED	CREATED
Help desk	Member of the help desk te[...]	valid	08/03/2010 14:37	08/03/2010 14:37
IT supervisor	Supervisor of the IT depart[...]	valid	08/03/2010 14:29	08/03/2010 14:29
Service desk	Member of the service desk[...]	valid	08/03/2010 14:37	08/03/2010 14:36

At the bottom of the page, it says 'Powered by OTRS 3.0.x CVS' and 'Top of page'.

Figure: Role management.

Note

As with agent and groups, roles once created can be deactivated but not deleted. To deactivate, set the Valid option to *invalid* or *invalid-temporarily*.

An overview of all roles in the system is displayed. To edit a role's settings, click on the role's name. In a fresh new OTRS installation, there are no roles defined by default. To register one, click on the "Add role" button, provide the needed data and submit it (see Figure below).

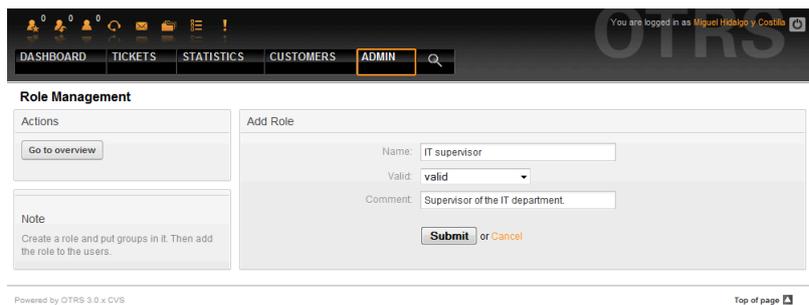


Figure: Adding a new role.

To get an overview of all roles and agents in the system, click on the link Roles <-> Agents on the Admin page. You can also use filters to find a specific element. If you want to change the roles associated with an agent, just click on the agent's name (see Figure below). To change the agents associated with a role, click on the role you want to edit (see Figure below).

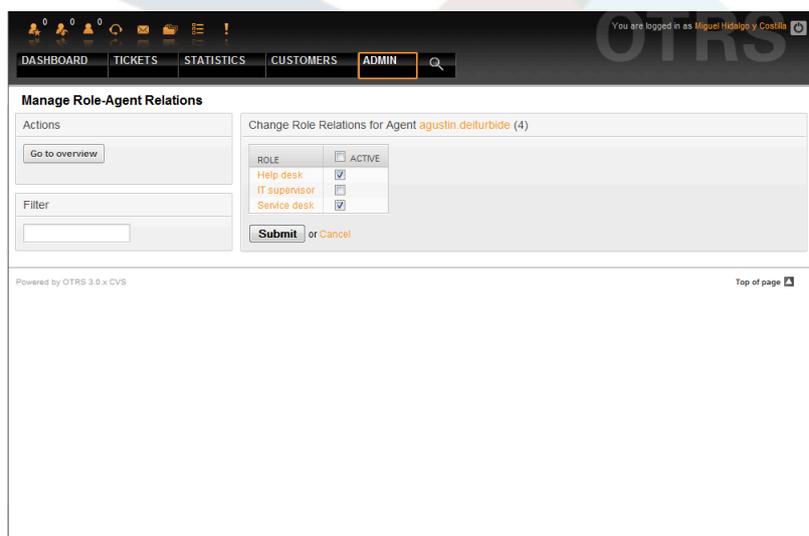


Figure: Change the Roles associated with an Agent.

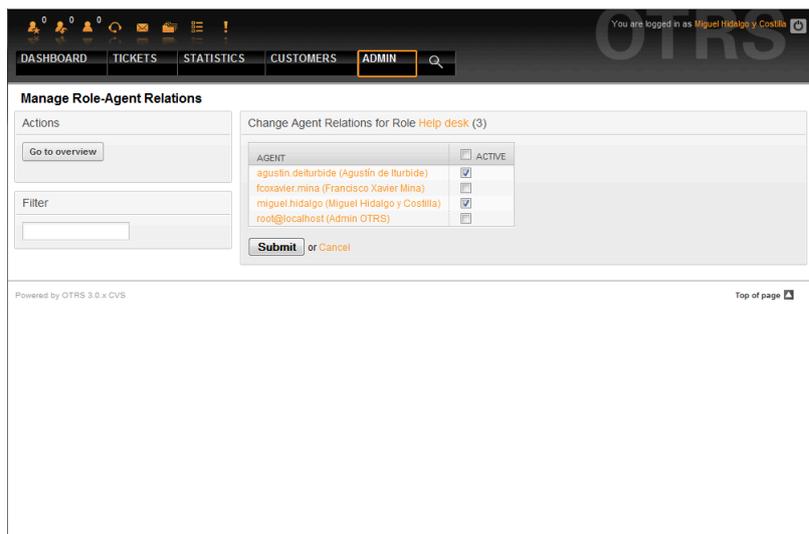


Figure: Change the Agents associated with a specific Role.

To get an overview of all roles and groups in the system, click on the link Roles <-> Groups on the Admin page. You will see a similar screen as the one shown in the Figure. You can also use filters to find a specific entity.

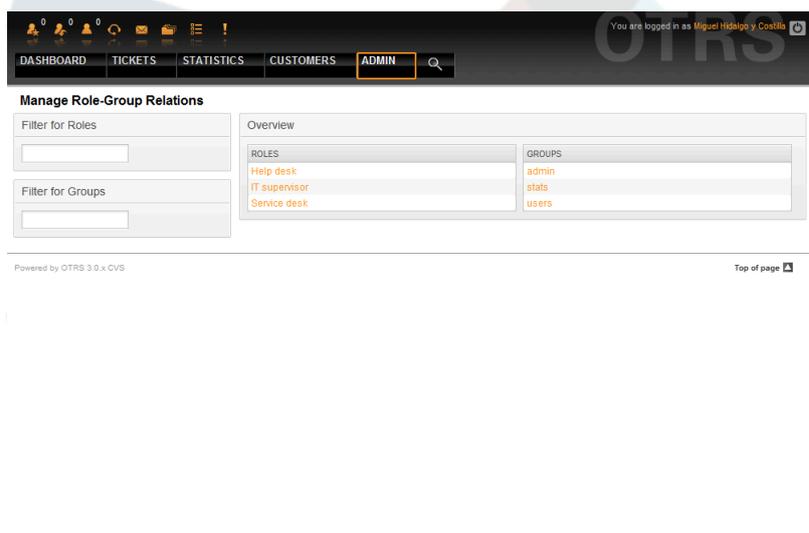
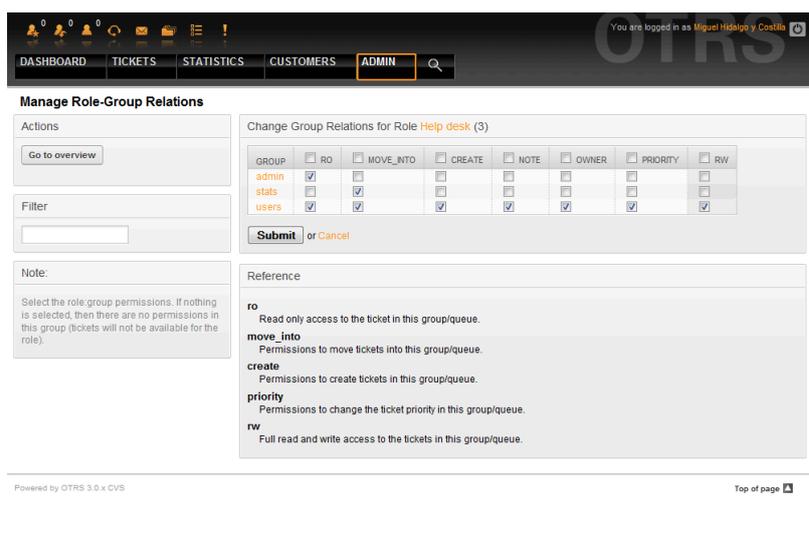


Figure: Manage Roles-Groups relations.

To define the different access rights for a role, click on the name of a role or a group (see below the Figures 5.13 and 5.14, respectively).



Manage Role-Group Relations

Change Group Relations for Role **Help desk** (3)

GROUP	<input type="checkbox"/> RO	<input type="checkbox"/> MOVE_INTO	<input type="checkbox"/> CREATE	<input type="checkbox"/> NOTE	<input type="checkbox"/> OWNER	<input type="checkbox"/> PRIORITY	<input type="checkbox"/> RW
admin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
stats	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
users	<input checked="" type="checkbox"/>						

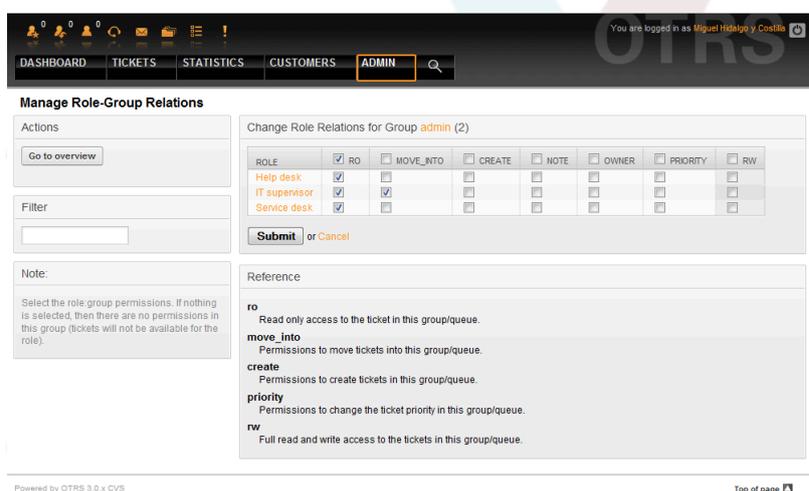
Submit or **Cancel**

Note:
Select the role group permissions. If nothing is selected, then there are no permissions in this group (tickets will not be available for the role).

Reference

- ro** Read only access to the ticket in this group/queue.
- move_into** Permissions to move tickets into this group/queue.
- create** Permissions to create tickets in this group/queue.
- priority** Permissions to change the ticket priority in this group/queue.
- rw** Full read and write access to the tickets in this group/queue.

Figure: Change Group relations for a Role.



Manage Role-Group Relations

Change Role Relations for Group **admin** (2)

ROLE	<input checked="" type="checkbox"/> RO	<input type="checkbox"/> MOVE_INTO	<input type="checkbox"/> CREATE	<input type="checkbox"/> NOTE	<input type="checkbox"/> OWNER	<input type="checkbox"/> PRIORITY	<input type="checkbox"/> RW
Help desk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IT supervisor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Service desk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Submit or **Cancel**

Note:
Select the role group permissions. If nothing is selected, then there are no permissions in this group (tickets will not be available for the role).

Reference

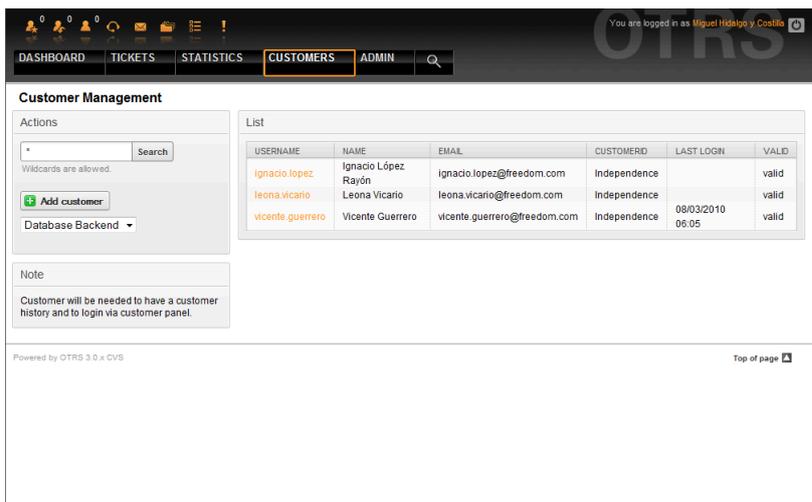
- ro** Read only access to the ticket in this group/queue.
- move_into** Permissions to move tickets into this group/queue.
- create** Permissions to create tickets in this group/queue.
- priority** Permissions to change the ticket priority in this group/queue.
- rw** Full read and write access to the tickets in this group/queue.

Figure: Change Role relations for a Group.

1.3. Customers and Customer Groups

1.3.1. Customers

OTRS supports different types of users. Using the link "Customers" (via the navigation bar, or the Admin page), you can manage the accounts of your customers (see Figure below), who can log into the system via the Customers interface (customer.pl). Through this interface, your customers can not only create tickets but also review their past tickets for new updates. It is important to know that a customer is needed for the ticket history in the system.



The screenshot shows the OTRS Customer Management interface. At the top, there is a navigation bar with tabs for DASHBOARD, TICKETS, STATISTICS, CUSTOMERS (selected), and ADMIN. Below the navigation bar, the page title is "Customer Management". On the left, there are "Actions" and a "Note" section. The "Actions" section includes a search box, a "Add customer" button, and a "Database Backend" dropdown. The "Note" section contains the text: "Customer will be needed to have a customer history and to login via customer panel." The main area displays a "List" of customers in a table format:

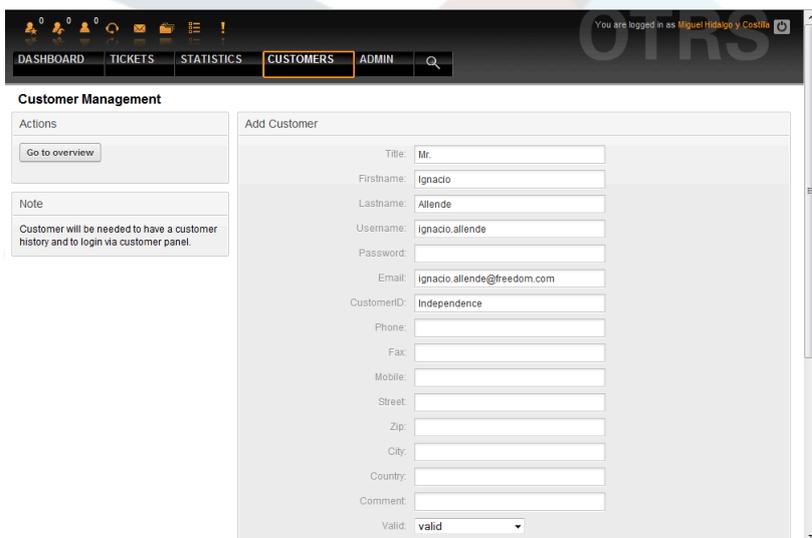
USERNAME	NAME	EMAIL	CUSTOMERID	LAST LOGIN	VALID
ignacio.lopez	Ignacio López Rayón	ignacio.lopez@freedom.com	Independence		valid
leona.vicario	Leona Vicario	leona.vicario@freedom.com	Independence		valid
vicente.guerrero	Vicente Guerrero	vicente.guerrero@freedom.com	Independence	08/03/2010 08:05	valid

At the bottom of the page, it says "Powered by OTRS 3.0.x CVS" and "Top of page".

Figure: Customer management.

You can search for a registered customer, or edit their settings by clicking on their name. You also have the possibility to change the customer back-end, for further information please refer to the chapter about external back-ends.

To create a new customer account, click on the "Add customer" button (see Figure below). Some of the fields are mandatory, i.e., they have to contain values, so if you leave one of those empty, it will be highlighted in red.



The screenshot shows the OTRS Customer Management interface with the "Add Customer" form open. The form contains the following fields:

- Title: Mr.
- Firstname: Ignacio
- Lastname: Allende
- Username: ignacio.allende
- Password: (empty)
- Email: ignacio.allende@freedom.com
- CustomerID: Independence
- Phone: (empty)
- Fax: (empty)
- Mobile: (empty)
- Street: (empty)
- Zip: (empty)
- City: (empty)
- Country: (empty)
- Comment: (empty)
- Valid: valid (dropdown menu)

At the bottom of the page, it says "Powered by OTRS 3.0.x CVS" and "Top of page".

Figure: Adding a customer.

Customers can access the system by providing their username and password. The CustomerID is needed by the system to identify the user and associated tickets. Since the email address is a unique value, it can be used as the ID.

Note

As with agents, groups and roles, customers can not be deleted from the system, only deactivated by setting the Valid option to *invalid* or *invalid-temporarily*.

1.3.2. Customer Groups

Customer users can also be added to a group, which can be useful if you want to add customers of the same company with access to one or a few queues. First create the

group to which your customers will belong, via the Group management module. Then add the queues and select the new group for the queues.

The next step is to activate the customer group support. This can be done with the configuration parameter `CustomerGroupSupport`, from the Admin SysConfig option. Using the parameter `CustomerGroupAlwaysGroups`, you can specify the default groups for a newly added customer, so that every new account will be automatically added to these groups.

Through the link "Customers <-> Groups" you can manage which customer shall belong to the different groups (see Figure below).

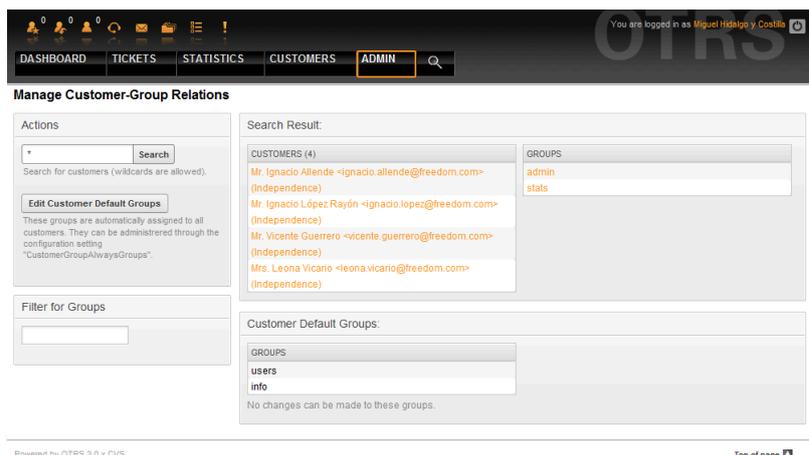


Figure: Customer-Group relations management.

To define the different groups a customer should be part of and vice versa, click on the corresponding customer username or group (see below the Figures 5.16 and 5.17, respectively).

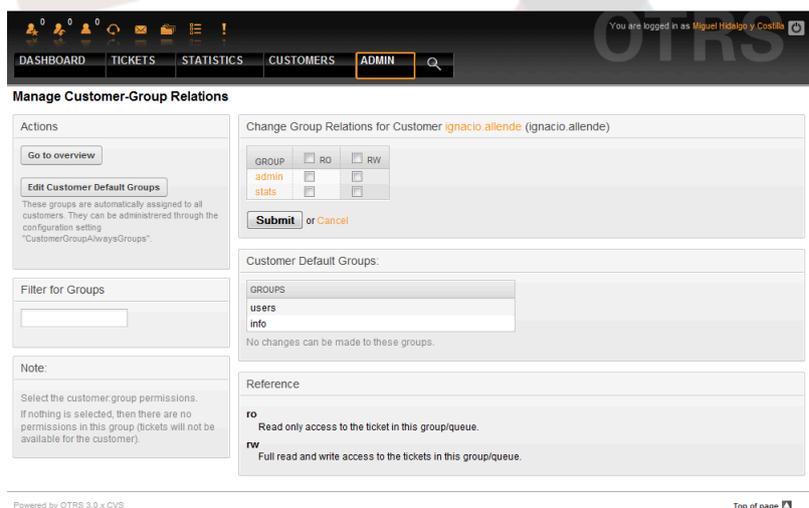
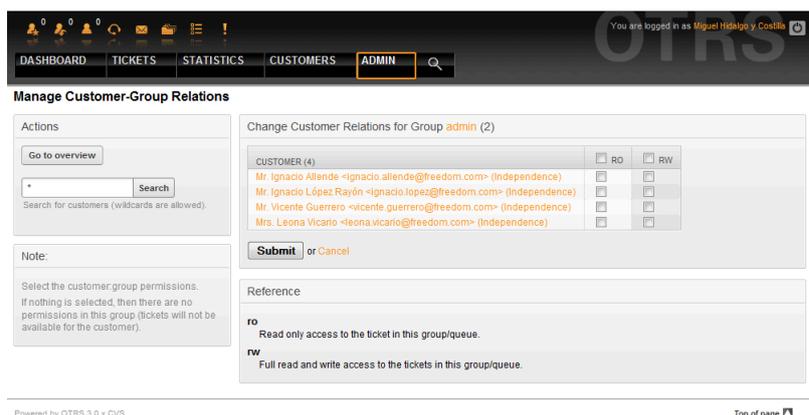


Figure: Change Group relations for a Customer.



Dashboard | TICKETS | STATISTICS | CUSTOMERS | **ADMIN** | Search

You are logged in as Miguel Hidalgo y Costilla

Manage Customer-Group Relations

Change Customer Relations for Group admin (2)

Actions

Go to overview

Search for customers (wildcards are allowed)

Note:

Select the customer.group permissions. If nothing is selected, then there are no permissions in this group (tickets will not be available for the customer).

CUSTOMER (4)	RO	RW
Mr. Ignacio Allende <ignacio.allende@freedom.com> (Independence)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Ignacio López Rayón <ignacio.lopez@freedom.com> (Independence)	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Vicente Guerrero <vicente.guerrero@freedom.com> (Independence)	<input type="checkbox"/>	<input type="checkbox"/>
Mrs. Leona Vicario <leona.vicario@freedom.com> (Independence)	<input type="checkbox"/>	<input type="checkbox"/>

Submit or **Cancel**

Reference

ro
Read only access to the ticket in this group/queue.

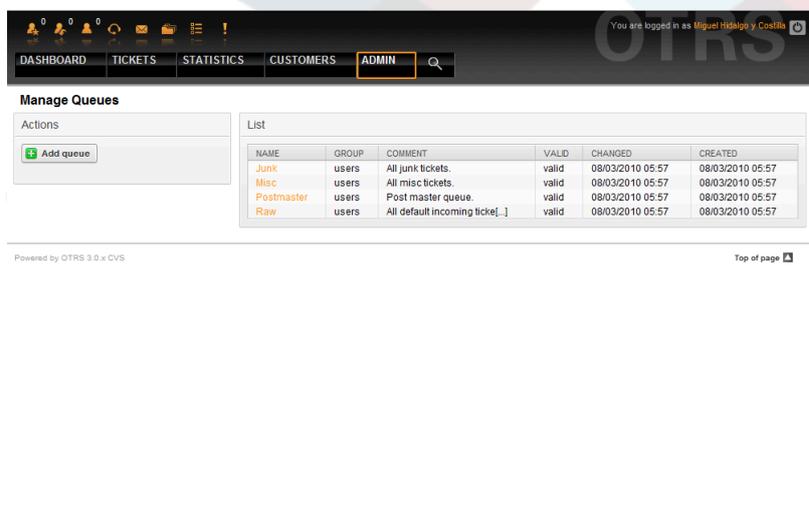
rw
Full read and write access to the tickets in this group/queue.

Powered by OTRS 3.0.x CVS Top of page

Figure: Change Customer relations for a Group.

1.4. Queues

Clicking on the link "Queues" of the Admin page, you can manage the queues of your system (see Figure below). In a new OTRS installation there are 4 default queues: Raw, Junk, Misc and Postmaster. All incoming messages will be stored in the "Raw" queue if no filter rules are defined. The "Junk" queue can be used to store spam messages.



Dashboard | TICKETS | STATISTICS | CUSTOMERS | **ADMIN** | Search

You are logged in as Miguel Hidalgo y Costilla

Manage Queues

Actions

Add queue

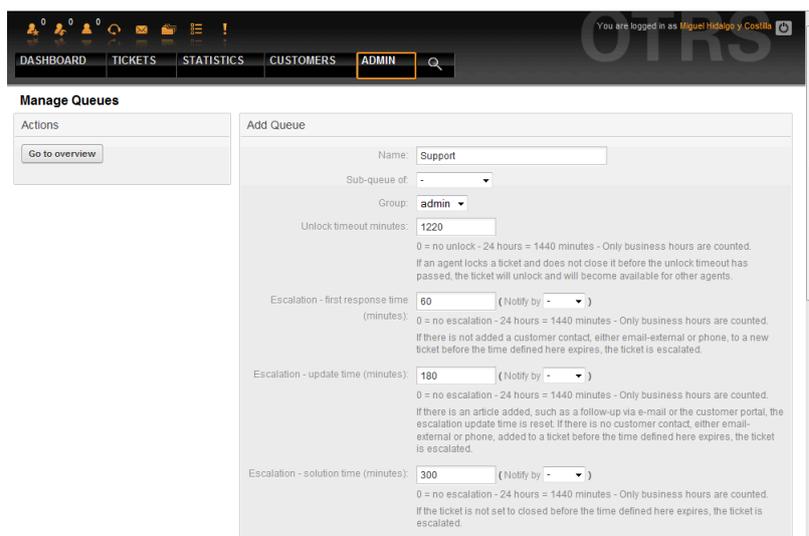
List

NAME	GROUP	COMMENT	VALID	CHANGED	CREATED
Junk	users	All junk tickets.	valid	08/03/2010 05:57	08/03/2010 05:57
Misc	users	All misc tickets.	valid	08/03/2010 05:57	08/03/2010 05:57
Postmaster	users	Post master queue.	valid	08/03/2010 05:57	08/03/2010 05:57
Raw	users	All default incoming ticket[...]	valid	08/03/2010 05:57	08/03/2010 05:57

Powered by OTRS 3.0.x CVS Top of page

Figure: Queue management.

Here you can add queues (see Figure below) and modify them. You can specify the group that should use the queue. You can also set the queue as a sub-queue of an existing queue.



The screenshot shows the 'Add Queue' form in the OTRS Admin interface. The form is titled 'Add Queue' and contains the following fields and options:

- Name:** Support
- Sub-queue of:** (dropdown menu)
- Group:** admin
- Unlock timeout minutes:** 1220
- Escalation - first response time (minutes):** 60 (Notify by: dropdown)
- Escalation - update time (minutes):** 180 (Notify by: dropdown)
- Escalation - solution time (minutes):** 300 (Notify by: dropdown)

Each escalation setting includes explanatory text: '0 = no escalation - 24 hours = 1440 minutes - Only business hours are counted. If there is not added a customer contact, either email-external or phone, to a new ticket before the time defined here expires, the ticket is escalated.'

Figure: Adding a new queue.

You can define an unlock timeout for a queue - if an agent locks a ticket and does not close it before the unlock timeout has passed, the ticket will be automatically unlocked and made available for other agents to work on.

There are three escalation time settings that can be associated at queue level:

Escalation - First Response Time

- After creation of the ticket, if the time defined here expires without any communication with the customer, either by email or phone, the ticket is escalated.

Escalation - Update Time

- If there is a customer followup either via e-mail or the customer portal, that is recorded in the ticket, the escalation update time is reset. If there is no customer contact before the time defined here expires, the ticket is escalated.

Escalation - Solution Time

- If the ticket is not closed before the time defined here expires, the ticket is escalated.

With 'Ticket lock after a follow-up', you can define if a ticket should be set to 'locked' to the old owner if a ticket that has been closed and later is re-opened. This ensures that a follow up for a ticket is processed by the agent that has previously handled that ticket.

The parameter for the system address specifies the email address that will be used for the outgoing tickets of this queue. There is also the possibility to associate a queue with a salutation and a signature, for the email answers. For more detailed information, please refer to the sections email addresses, salutations and signatures.

Note

As with agents, groups and customers, queues cannot be deleted, only deactivated, by setting the Valid option to *invalid* or *invalid-temporarily*.

1.5. Salutations, signatures, attachments and templates

1.5.1. Salutations

A salutation is a text module for a template. Salutations can be linked to one or more queues, as described in the section about queues. A salutation is used only if a ticket from a queue the salutation is linked to, is answered. To manage the different salutations of your system, use the "Salutations" link of the admin area (see Figure below).

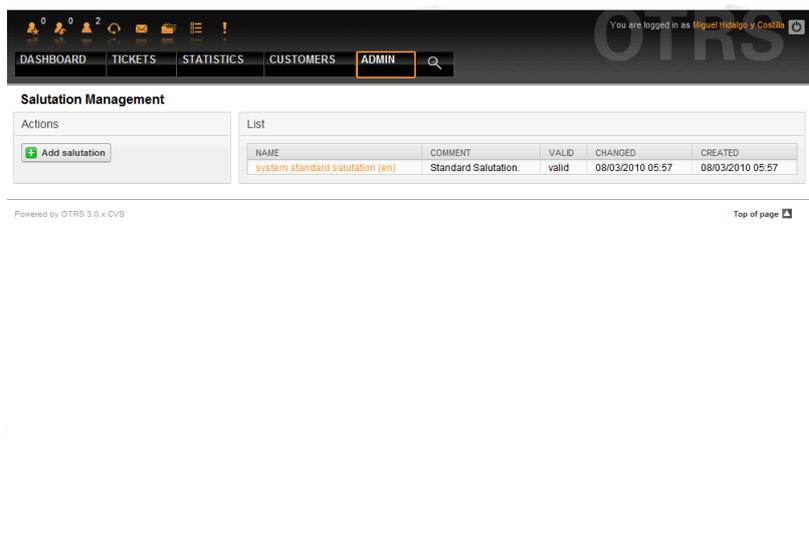


Figure: Salutation management.

After a default installation there is already one salutation available, "system standard salutation (en)".

To create a new salutation, press the button "Add salutation", provide the required data and submit it (see Figure below).

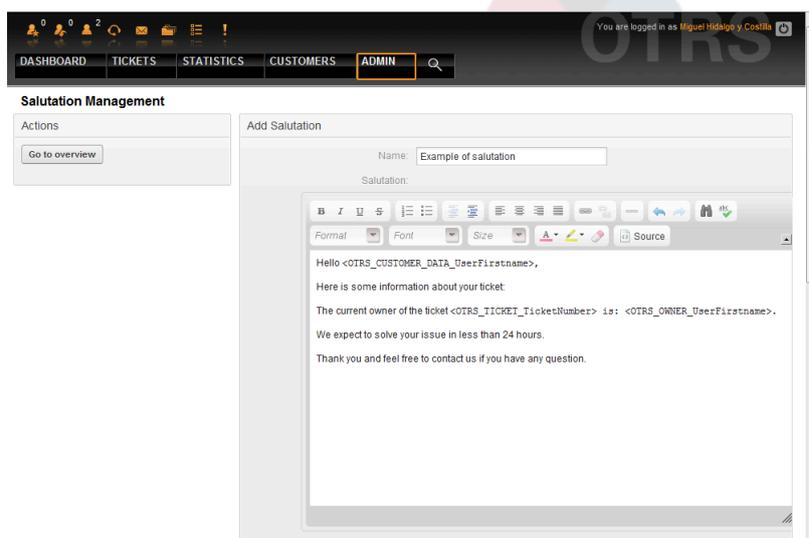


Figure: Adding a new salutation.

It is possible to use variables in salutations. When you respond to a ticket, the variable names will be replaced by their values.

The different variables you can use in templates are listed in the lower part of the salutation screen. If you use, for example, the variable `<OTRS_LAST_NAME>` the last name of the ticket's sender will be included in your reply.

Note

As with other OTRS entities, salutations cannot be deleted, only deactivated by setting the Valid option to *invalid* or *invalid-temporarily*.

1.5.2. Signatures

Another text module for a template is the signature. Signatures can be linked to a queue, as described in the section about the queues. Please note that a signature will only be appended to a template text, if it has previously been linked to a queue. You can manage the signatures in your system by accessing the "Signatures" link of the Admin page, (see Figure below).

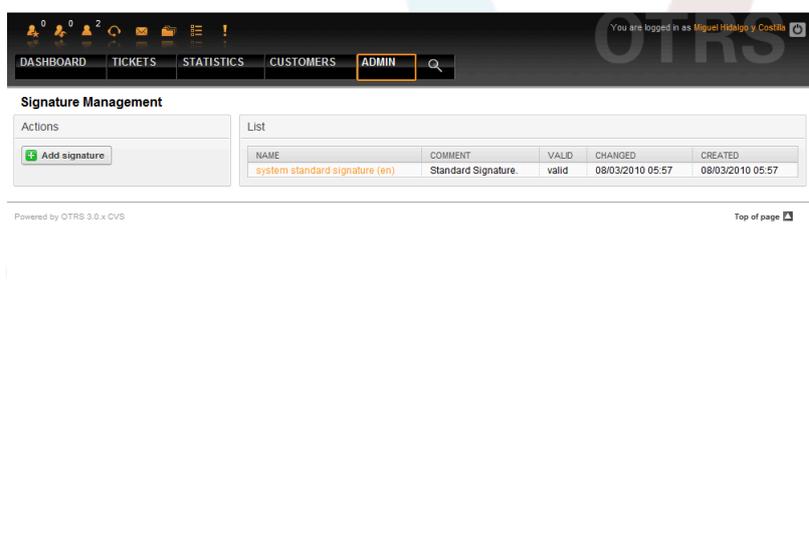


Figure: Signatures management.

After a fresh installation of OTRS, there is one predefined signature stored in your system, "system standard signature (en)".

To create a new signature, press the button "Add signature", provide the needed data and submit it (see Figure below).

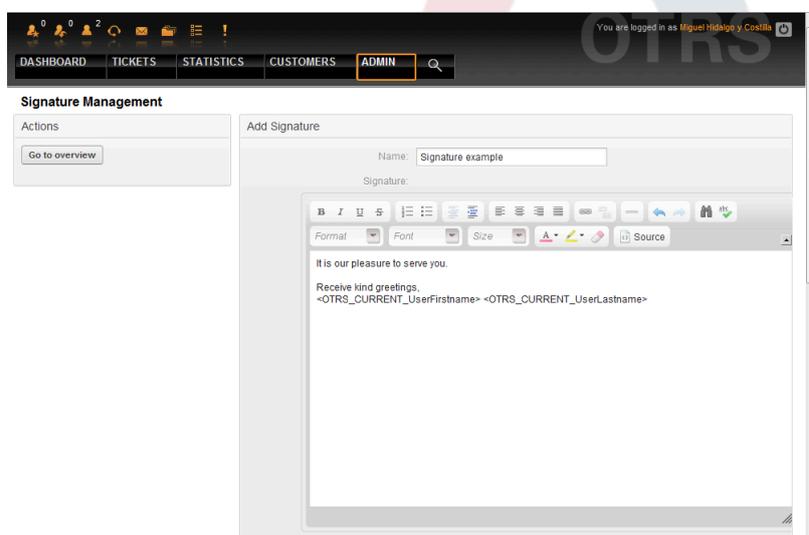


Figure: Adding a new signature.

Like salutations, signatures can also contain dynamic content, such as the first and last name of the agent who answers the ticket. Here too, variables can be used to replace the content of the signature text for every ticket. See the lower part of the signatures screen for the variables which can be used. If you include the variable <OTRS_LAST_NAME> in a signature for example, the last name of the agent who answers the ticket will replace the variable.

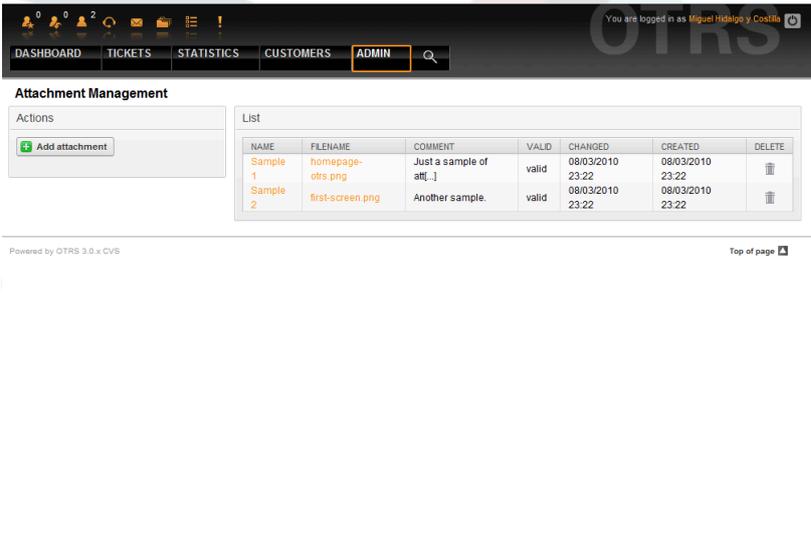
Note

As with salutations, signatures too cannot be deleted, only deactivated by setting the Valid option to *invalid* or *invalid-temporarily*.

1.5.3. Attachments

You can also optionally add one or more attachments to a template. If the template is selected, the attachments will be attached to the message composition window. If necessary, the agent can remove the attachment from an individual template before sending it to the customer.

Through the "Attachment" link of the Admin page, you can load the attachments into the database of the system (see Figure below).



The screenshot shows the OTRS Admin interface. At the top, there is a navigation bar with tabs for DASHBOARD, TICKETS, STATISTICS, CUSTOMERS, and ADMIN (which is highlighted). Below the navigation bar, the page title is "Attachment Management". On the left, there is an "Actions" section with a button labeled "Add attachment". On the right, there is a "List" section containing a table with the following data:

NAME	FILENAME	COMMENT	VALID	CHANGED	CREATED	DELETE
Sample 1	homepage-otrs.png	Just a sample of att[...]	valid	08/03/2010 23:22	08/03/2010 23:22	
Sample 2	first-screen.png	Another sample.	valid	08/03/2010 23:22	08/03/2010 23:22	

At the bottom of the page, it says "Powered by OTRS 3.0.x CVS" and "Top of page" with a small icon.

Figure: Attachments management.

To create a new attachment, press the button "Add attachment", provide the required data and submit it (see Figure below).

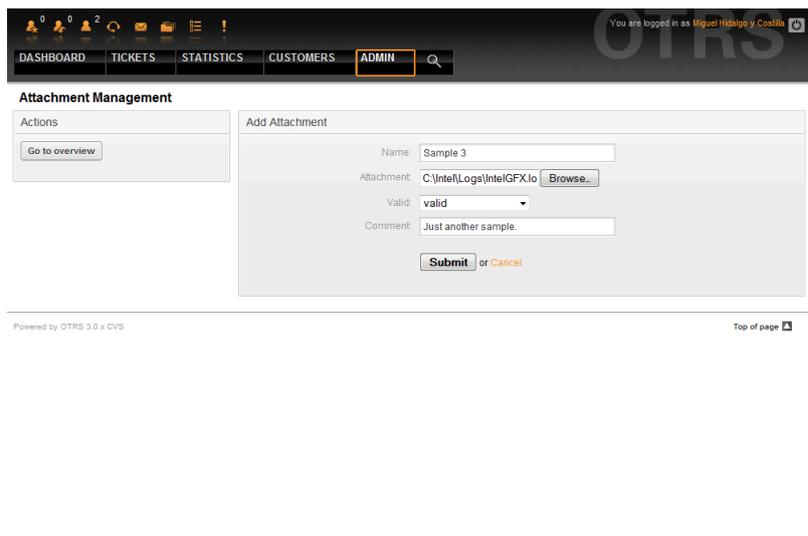


Figure: Adding a new attachment.

If an attachment is stored it can be linked to one or more templates. Click on the "Attachment <-> Templates" link of the Admin page (see Figure below).

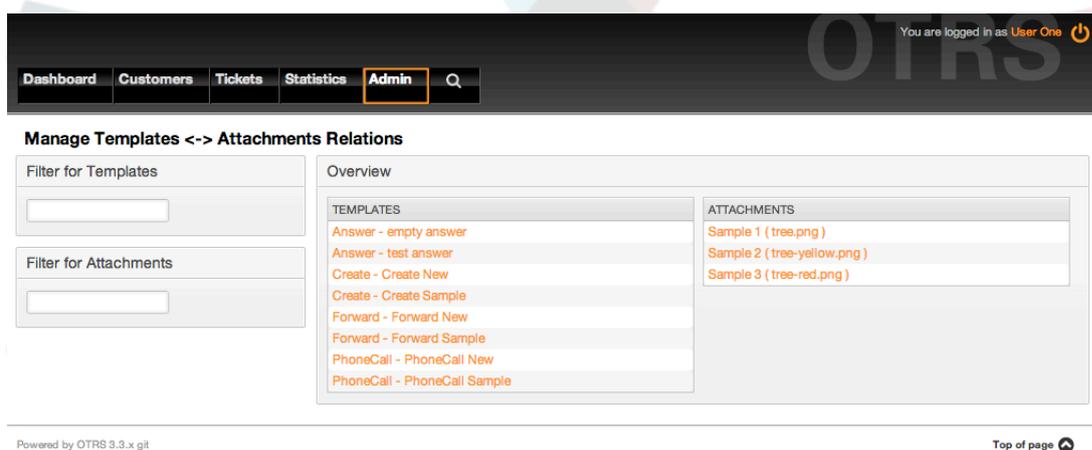


Figure: Linking Attachments to Templates.

To associate different attachments with a specific template and vice versa, click on the corresponding template name or attachment (see below the Figures 5.27 and 5.28, respectively).

You are logged in as **User One** 

Dashboard **Customers** **Tickets** **Statistics** **Admin**

Manage Templates <-> Attachments Relations

Actions

[Go to overview](#)

Filter

Change Attachment Relations for Template **Answer - empty answer**

ATTACHMENT	ACTIVE
Sample 1 (tree.png)	<input checked="" type="checkbox"/>
Sample 2 (tree-yellow.png)	<input checked="" type="checkbox"/>
Sample 3 (tree-red.png)	<input type="checkbox"/>

[Submit](#) or [Cancel](#)

Powered by OTRS 3.3.x git Top of page 

Figure: Change Attachment relations for a Template.

You are logged in as **User One** 

Dashboard **Customers** **Tickets** **Statistics** **Admin**

Manage Templates <-> Attachments Relations

Actions

[Go to overview](#)

Filter

Change Template Relations for Attachment **Sample 1**

TEMPLATE	ACTIVE
Answer - empty answer	<input checked="" type="checkbox"/>
Answer - test answer	<input checked="" type="checkbox"/>
Create - Create New	<input checked="" type="checkbox"/>
Create - Create Sample	<input checked="" type="checkbox"/>
Forward - Forward New	<input type="checkbox"/>
Forward - Forward Sample	<input checked="" type="checkbox"/>
PhoneCall - PhoneCall New	<input checked="" type="checkbox"/>
PhoneCall - PhoneCall Sample	<input type="checkbox"/>

[Submit](#) or [Cancel](#)

Powered by OTRS 3.3.x git Top of page 

Figure: Change Template relations for an Attachment.

1.5.4. Templates

To speed up ticket processing and to standardize the look of answers, you can define templates in OTRS. A template can be linked to one or more queues and vice versa.

There are different kind of templates that are used in different parts of OTRS and they have its own purpose, the following is the list of possible template types:

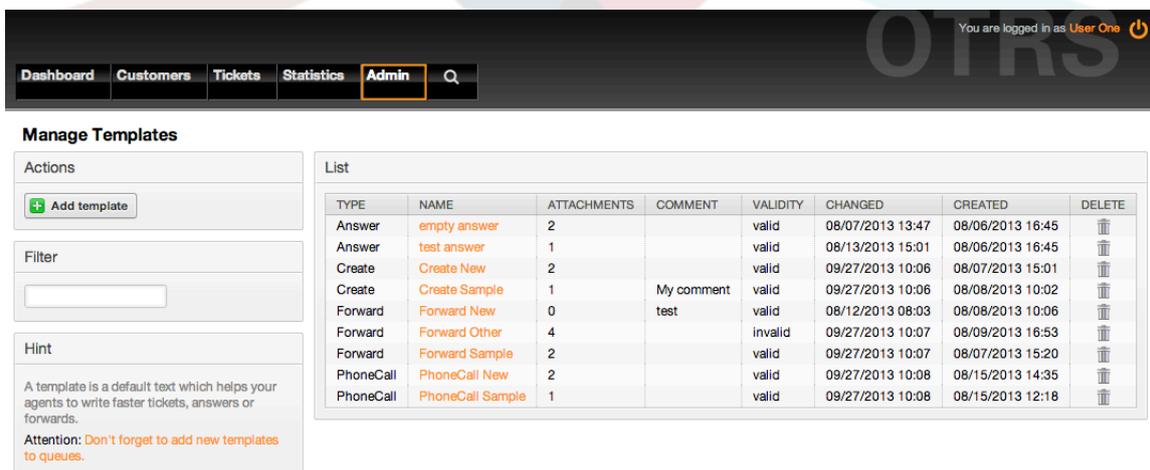
- Answer: To be used as a ticket response or reply
- Create: To be used in New Phone or Email ticket
- Forward: To be used to forward an article to someone else
- PhoneCall: To be used in the Phone Call Inbound and Outbound screens

Answer templates can be accessed in two ways, from the ticket zoom screen in the article menu, or on a quicker way: from any ticket overview large screen such as Status View or Ticket View. For a fresh OTRS installation, the "empty answer" template (Answer) is set as the default for every queue.

As soon as Forward templates are added and assigned to queues, the "Forward" button in ticket zoom (that normally leads to a empty text forward screen) will change into a selection control, the selection is filled with the added Forward templates, by choosing one of the templates, the forward screen will be shown prefilled with the template text and attachments (similar to the reply selection box with the Answer templates).

Creating templates of type Create and PhoneCall will make visible the "Text Template" selection box in their respective screens, choosing a template for the list will populate the "Text" and "Attachment" fields (if available in the template). Notice that any previous change in the Text or attachments will be overwritten by selecting a template.

Clicking the "Templates" link on the Admin page brings you to the Template management screen (see Figure below).



Manage Templates

Actions: [+ Add template](#)

Filter:

Hint: A template is a default text which helps your agents to write faster tickets, answers or forwards.
Attention: Don't forget to add new templates to queues.

TYPE	NAME	ATTACHMENTS	COMMENT	VALIDITY	CHANGED	CREATED	DELETE
Answer	empty answer	2		valid	08/07/2013 13:47	08/06/2013 16:45	
Answer	test answer	1		valid	08/13/2013 15:01	08/06/2013 16:45	
Create	Create New	2		valid	09/27/2013 10:06	08/07/2013 15:01	
Create	Create Sample	1	My comment	valid	09/27/2013 10:06	08/08/2013 10:02	
Forward	Forward New	0	test	valid	08/12/2013 08:03	08/08/2013 10:06	
Forward	Forward Other	4		invalid	09/27/2013 10:07	08/09/2013 16:53	
Forward	Forward Sample	2		valid	09/27/2013 10:07	08/07/2013 15:20	
PhoneCall	PhoneCall New	2		valid	09/27/2013 10:08	08/15/2013 14:35	
PhoneCall	PhoneCall Sample	1		valid	09/27/2013 10:08	08/15/2013 12:18	

Figure: Template management.

To create a new template, click on the "Add template" button, provide the required data (make sure to select the appropriate template type) and submit it (see Figure below).

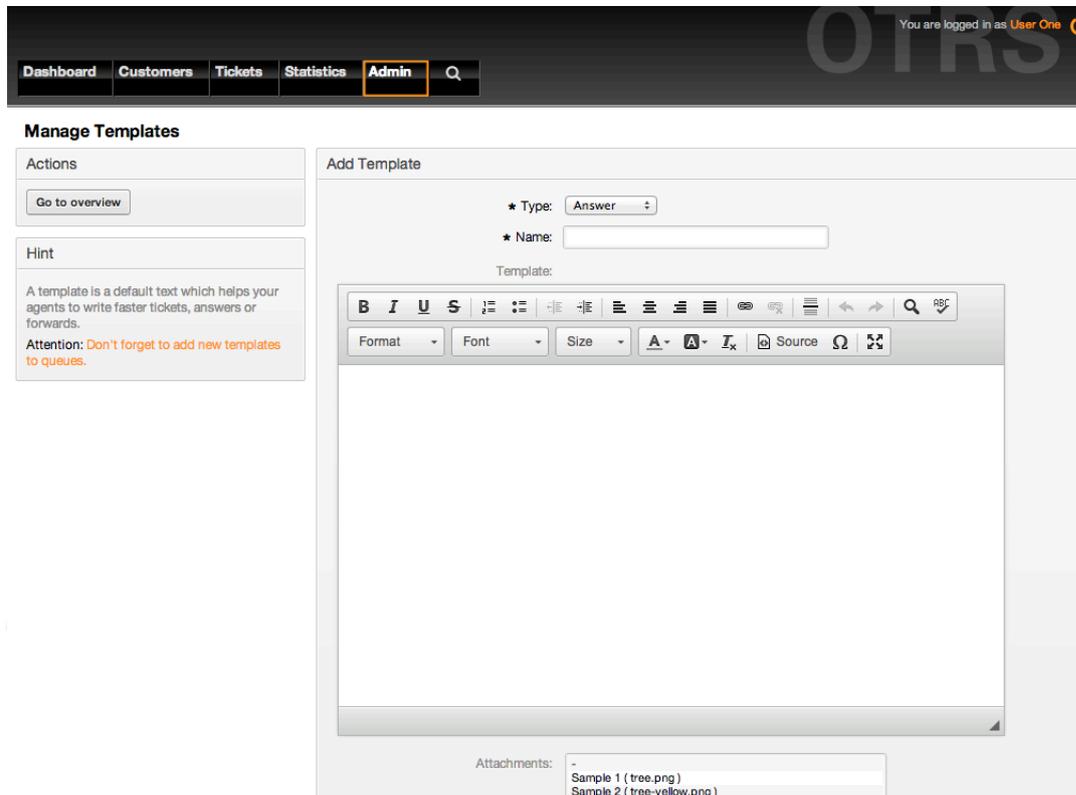


Figure: Adding a template.

To add/remove templates to one or more queues, click on the "Templates <-> Queues" link on the Admin page (see Figure below). You can also use filters to get information regarding a specific entity.

OTRS You are logged in as **User One** 

Dashboard Customers Tickets Statistics **Admin** 

Manage Template-Queue Relations

Filter for Templates

Filter for Queues

Overview

TEMPLATES	QUEUES
Answer - empty answer	Junk
Answer - test answer	Misc
Create - Create New	New Queue
Create - Create Sample	Postmaster
Forward - Forward New	Raw
Forward - Forward Sample	Some:Queue587264
PhoneCall - PhoneCall New	
PhoneCall - PhoneCall Sample	

Figure: Template-Queue relations management.

To define the different templates that will be available for a queue and vice versa, click on the corresponding template or queue (see below the Figures 5.32 and 5.33, respectively).

OTRS You are logged in as **User One** 

Dashboard Customers Tickets Statistics **Admin** 

Manage Template-Queue Relations

Actions

[Go to overview](#)

Filter

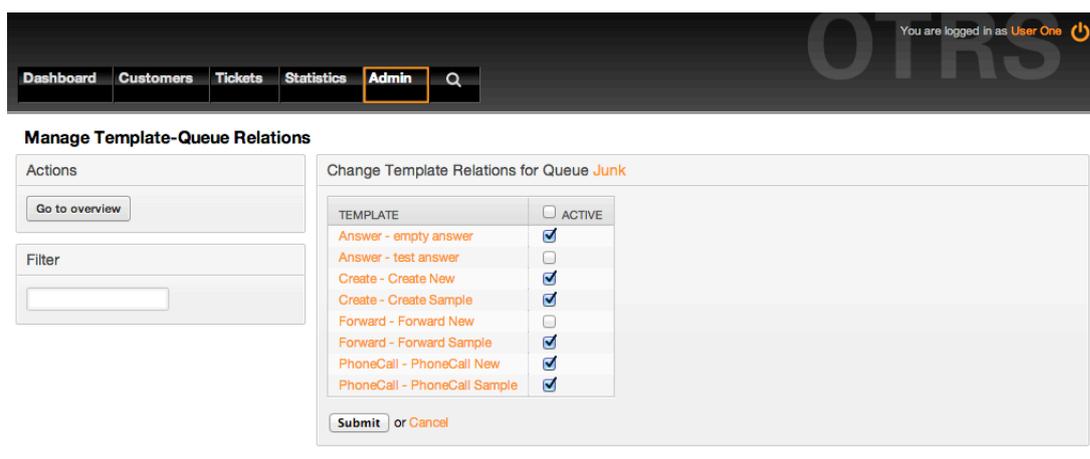
Change Queue Relations for Template **Answer - empty answer**

QUEUE	<input type="checkbox"/> ACTIVE
Junk	<input checked="" type="checkbox"/>
Misc	<input checked="" type="checkbox"/>
New Queue	<input type="checkbox"/>
Postmaster	<input checked="" type="checkbox"/>
Raw	<input checked="" type="checkbox"/>
Some:Queue587264	<input type="checkbox"/>

or

Powered by OTRS 3.3.x git Top of page 

Figure: Change Queue relations for a Template.



Powered by OTRS 3.3.x git

Top of page ↗

Figure: Change Template relations for a Queue.

When choosing a template, additional information could be added to the template text, this depends on the template type:

PhoneCall and Create templates does not add any content to the template text, however New Email Ticket screen adds the queue assigned signature to the resulting email body (this screen has a separated box to visualize the signature).

Answer templates text when selected also included the salutation associated with the queue, then the text of the template, then the quoted ticket text, and finally the signature associated with the queue.

Forward templates are similar to Answer templates, but they does not include the salutation part.

1.6. Auto responses

OTRS allows you to send automatic responses to customers based on the occurrence of certain events, such as the creation of a ticket in a specific queue, the receipt of a follow-up message in regards to a ticket, the closure or rejection of a ticket, etc. To manage such responses, click the link "Auto responses" on the Admin page (see Figure below).

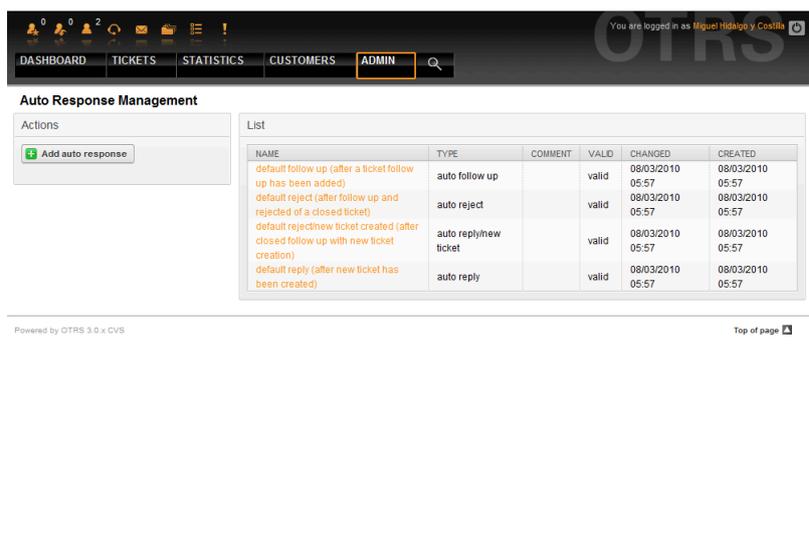


Figure: Auto Response management.

To create an automatic response, click on the button "Add auto response", provide the needed data and submit it (see Figure below).

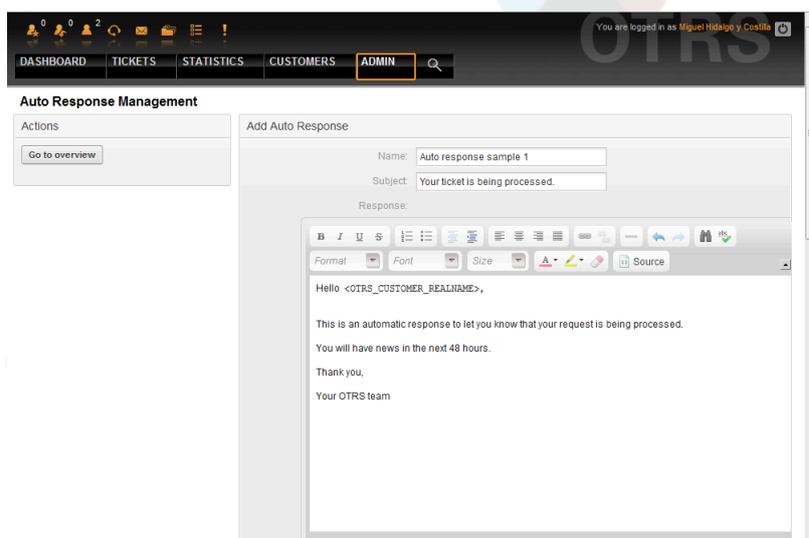


Figure: Adding an Auto Response.

The subject and text of auto responses can be generated by variables, just as in signatures and salutations. If you insert, for example, the variable <OTRS_CUSTOMER_EMAIL[5]> into the body of the auto answer, the first 5 lines of the customer mail text will be inserted into the auto answer. You will find more details about the valid variables that can be used at the bottom of the screen shown in the Figure.

For every automatic answer, you can specify the event that should trigger it. The system events that are available after a default installation are described in the Table 5-3.

Table 4.4. Events for Auto answers

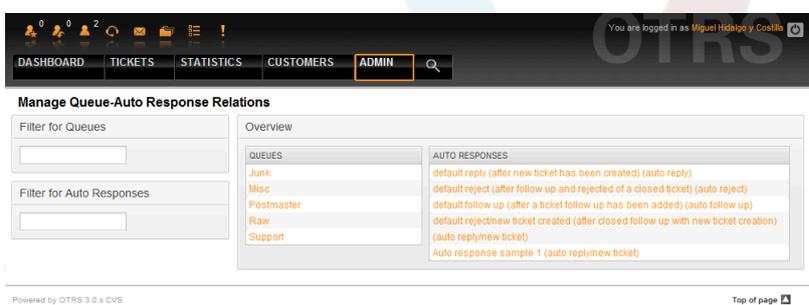
Name	Description
auto reply	Creation of a ticket in a certain queue.
auto reply/new ticket	Reopening of an already closed ticket, e.g. if a customer replies to such ticket.

Name	Description
auto follow up	Reception of a follow-up for a ticket.
auto reject	Automatic rejection of a ticket, done by the system.
auto remove	Deletion of a ticket, done by the system.

Note

As with other OTRS entities, auto responses too cannot be deleted, only deactivated, by setting the Valid option to *invalid* or *invalid-temporarily*.

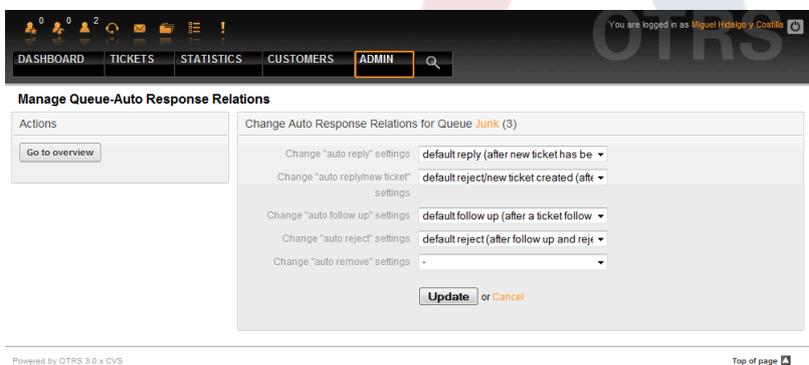
To add an auto response to a queue, use the "Auto Response <-> Queues" link on the Admin page (see Figure below). All system events are listed for every queue, and an auto answer with the same event can be selected or removed via a listbox.



The screenshot shows the OTRS Admin interface. The top navigation bar includes 'DASHBOARD', 'TICKETS', 'STATISTICS', 'CUSTOMERS', and 'ADMIN'. The main content area is titled 'Manage Queue-Auto Response Relations'. It features two filter boxes: 'Filter for Queues' and 'Filter for Auto Responses'. Below these is an 'Overview' section with a table of 'QUEUES' and 'AUTO RESPONSES'. The 'QUEUES' column lists 'Junk', 'Misc', 'Postmaster', 'Raw', and 'Support'. The 'AUTO RESPONSES' column lists various events such as 'default reply (after new ticket has been created) (auto reply)', 'default reject (after follow up and rejected of a closed ticket) (auto reject)', 'default follow up (after a ticket follow up has been added) (auto follow up)', 'default reject/new ticket created (after closed follow up with new ticket creation) (auto reply/new ticket)', and 'Auto response sample 1 (auto reply/new ticket)'. At the bottom, it says 'Powered by OTRS 3.0.x CVS' and 'Top of page'.

Figure: Queue-Auto Response relations management.

To define the different auto responses that will be available for a queue, click on the corresponding queue name (see Figure below). It is also possible to edit an existing auto response - to do so, click on the response and edit in the same manner as editing a new auto response.

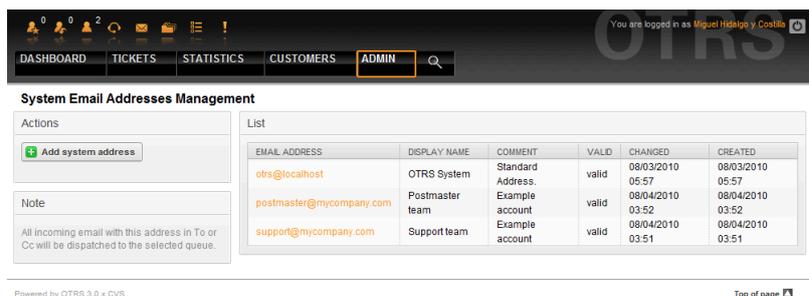


The screenshot shows the OTRS Admin interface for editing auto response relations for the 'Junk' queue. The top navigation bar is the same as in the previous screenshot. The main content area is titled 'Manage Queue-Auto Response Relations'. It features an 'Actions' section with a 'Go to overview' button. The main configuration area is titled 'Change Auto Response Relations for Queue Junk (3)'. It contains five rows, each with a label for the auto response type and a dropdown menu for selecting the event. The rows are: 'Change "auto reply" settings' with 'default reply (after new ticket has be...', 'Change "auto reply/new ticket" settings' with 'default reject/new ticket created (aft...', 'Change "auto follow up" settings' with 'default follow up (after a ticket follow...', 'Change "auto reject" settings' with 'default reject (after follow up and rejt...', and 'Change "auto remove" settings' with a dropdown menu. At the bottom, there are 'Update' and 'Cancel' buttons. At the bottom, it says 'Powered by OTRS 3.0.x CVS' and 'Top of page'.

Figure: Change Auto Response relations for a Queue.

1.7. Email addresses

To enable OTRS to send emails, you need a valid email address to be used by the system. OTRS is capable of working with multiple email addresses, since many support installations need to use more than one. A queue can be linked to many email addresses, and vice versa. The address used for outgoing messages from a queue can be set when the queue is created. Use the "Email Addresses" link from the Admin page to manage all email addresses of the system (see Figure below).

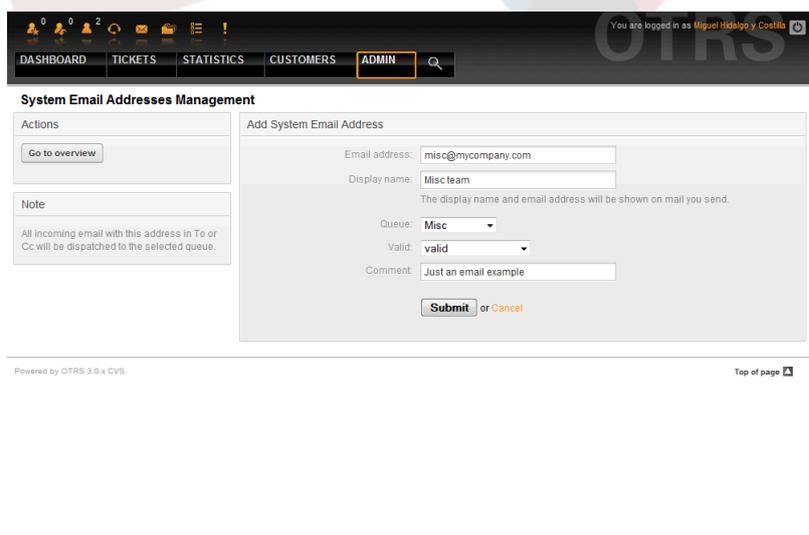


The screenshot shows the 'System Email Addresses Management' interface. On the left, there are 'Actions' (Add system address) and a 'Note' stating that incoming emails to the address will be dispatched to the selected queue. The main area contains a table with the following data:

EMAIL ADDRESS	DISPLAY NAME	COMMENT	VALID	CHANGED	CREATED
otrs@localhost	OTRS System	Standard Address.	valid	08/03/2010 05:57	08/03/2010 05:57
postmaster@mycompany.com	Postmaster team	Example account	valid	08/04/2010 03:52	08/04/2010 03:52
support@mycompany.com	Support team	Example account	valid	08/04/2010 03:51	08/04/2010 03:51

Figure: System Email Addresses management.

If you create a new mail address (see Figure below), you can select the queue or sub queue to be linked with it. This link enables the system to sort incoming messages via the address in the To: field of the mail into the right queue.



The screenshot shows the 'Add System Email Address' form. It includes the following fields and options:

- Email address:** misc@mycompany.com
- Display name:** Misc team
- Queue:** Misc (selected from a dropdown)
- Valid:** valid (selected from a dropdown)
- Comment:** Just an email example
- Buttons:** Submit or Cancel

A note below the display name field states: "The display name and email address will be shown on mail you send."

Figure: Adding a system Email Address.

Note

As with other OTRS entities, email addresses cannot be deleted, only deactivated by setting the Valid option to *invalid* or *invalid-temporarily*.

1.8. Notifications

OTRS allows notifications to be sent to agents and customers, based on the occurrence of certain events. Agents can set the system events for their own notifications via the preferences link.

Through the "Agent Notifications" link on the Admin page, you can manage the notifications of your system (see Figure below). You can use filters to list only certain notifications.

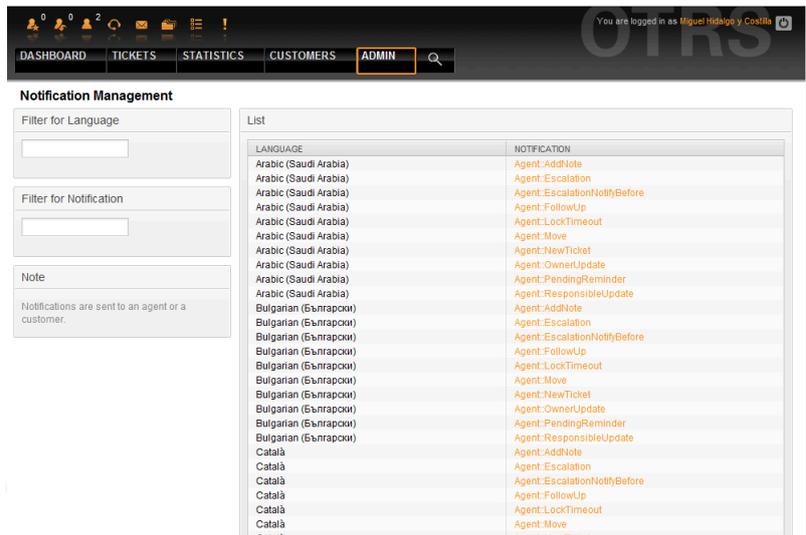


Figure: Notification management.

You can customize the subject and the text of the notifications. Click on the notification you want to change from the list, and its content will get loaded for editing (see Figure). Please note that there is a notification with the same name for each of the available languages.

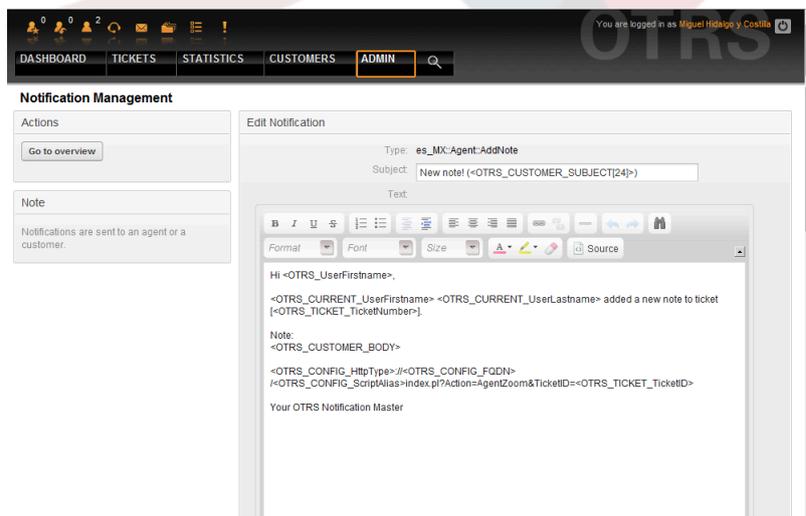


Figure: Customizing a Notification.

Just as with signatures and salutations, it is possible to dynamically create the content of a notification, by using special variables. You can find a list of variables at the bottom of the screen shown in the Figure.

It is also possible to create notifications based on events. You can specify in detail when and to whom you want such a notification to be sent. You can choose from a wide variety

of parameters, such as: recipient group(s), agent(s), role(s), email address(es), type of event triggering the notification, ticket-type, state, priority, queue, lock, service, SLA, etc.

In order to see a list of all event based notifications, click on the link "Notifications (Event)" on the Admin page (see Figure).

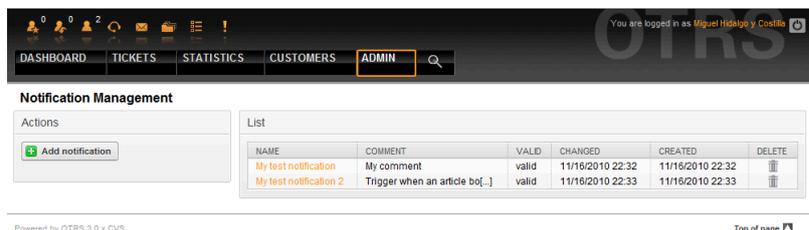


Figure: Event based Notification management.

As shown in Figure, you can create a new notification by clicking on the Add button (see Figure).

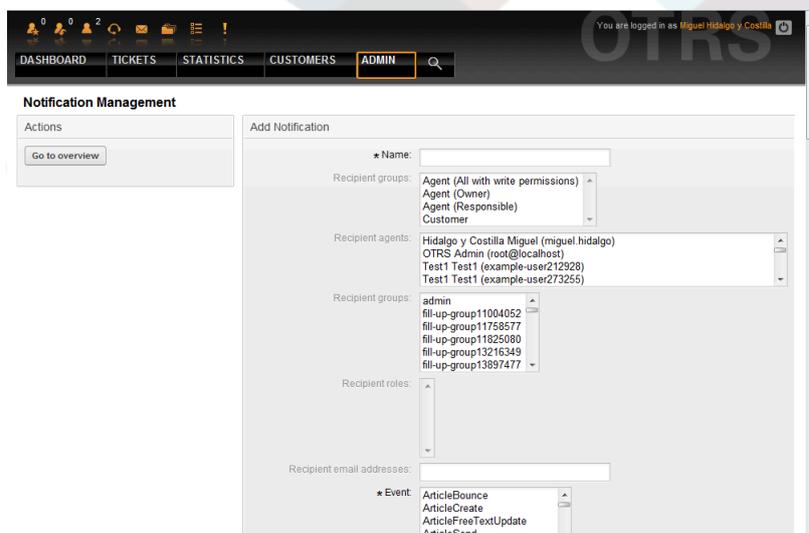


Figure: Registering an Event based Notification management.

Please note that the content of the event based notifications can also be dynamically created by using the special variables listed at the bottom of the screen shown in the Figure.

1.9. SMIME

OTRS can process incoming S/MIME encoded messages and sign outgoing mails. Before this feature can be used, you need to activate it and change some configuration parameters in the SysConfig.

The "S/MIME Certificates" link on the Admin page allows you to manage your S/MIME certificates (see Figure below). You can add or remove certificates, and also search through the SMIME data.

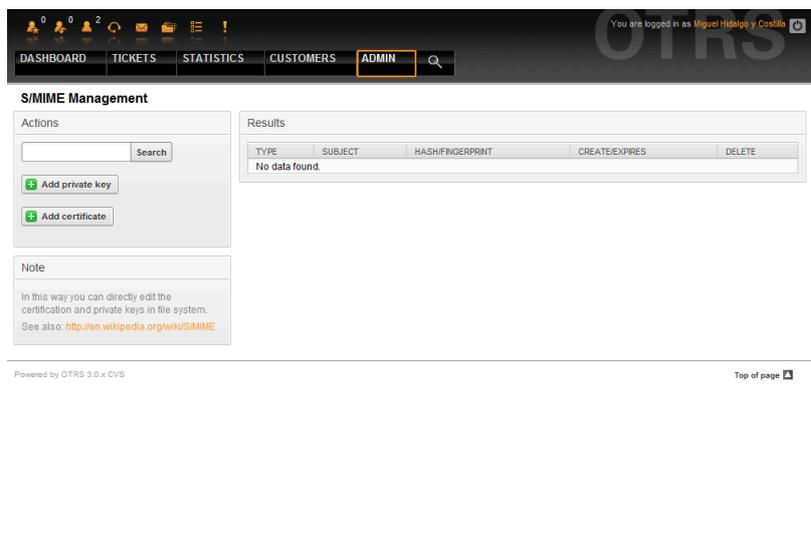


Figure: S/MIME management.

1.10. PGP

OTRS handles PGP keys, which allows you to encrypt/decrypt messages and to sign outgoing messages. Before this feature can be used, you need to activate it and change some configuration parameters in the SysConfig.

Through the "PGP Keys" link on the Admin page, it is possible to manage the key ring of the user who shall be used for PGP with OTRS (see Figure below), e.g. the local OTRS user or the web server user. It is possible to add and remove keys and signatures, and you can search through all data in your key ring.

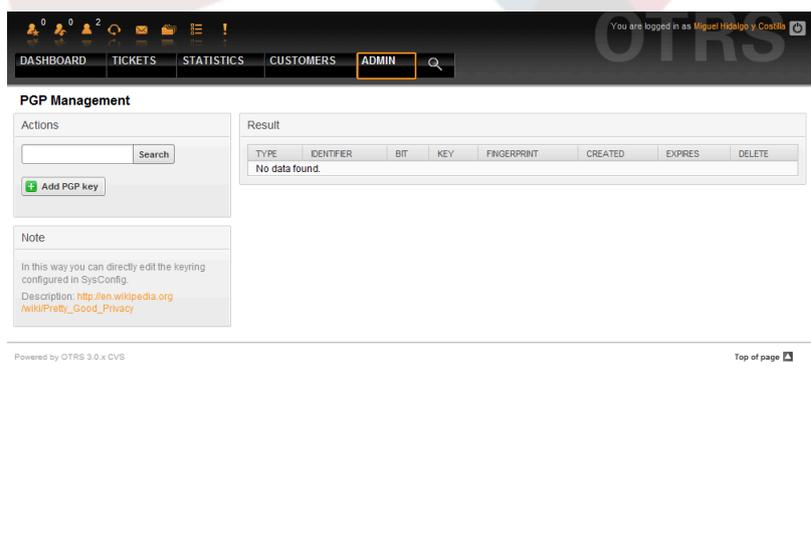
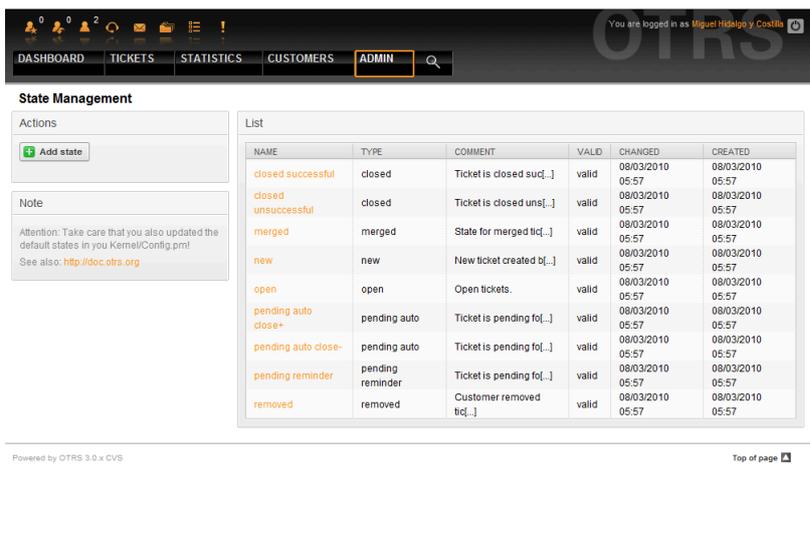


Figure: PGP management.

1.11. States

Through the "States" link on the Admin page, you can manage the different ticket states you want to use in the system (see Figure below).



State Management

Actions

[Add state](#)

Note

Attention: Take care that you also updated the default states in you Kernel/Config.pm!
 See also: <http://doc.otrs.org>

NAME	TYPE	COMMENT	VALID	CHANGED	CREATED
closed successful	closed	Ticket is closed suc[...]	valid	08/03/2010 05:57	08/03/2010 05:57
closed unsuccessful	closed	Ticket is closed uns[...]	valid	08/03/2010 05:57	08/03/2010 05:57
merged	merged	State for merged tic[...]	valid	08/03/2010 05:57	08/03/2010 05:57
new	new	New ticket created b[...]	valid	08/03/2010 05:57	08/03/2010 05:57
open	open	Open tickets.	valid	08/03/2010 05:57	08/03/2010 05:57
pending auto close+	pending auto	Ticket is pending fo[...]	valid	08/03/2010 05:57	08/03/2010 05:57
pending auto close-	pending auto	Ticket is pending fo[...]	valid	08/03/2010 05:57	08/03/2010 05:57
pending reminder	pending reminder	Ticket is pending fo[...]	valid	08/03/2010 05:57	08/03/2010 05:57
removed	removed	Customer removed tic[...]	valid	08/03/2010 05:57	08/03/2010 05:57

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Figure: State management.

After a default setup, there are some states defined:

- closed successful
- closed unsuccessful
- merged
- new
- open
- pending auto close+
- pending auto close-
- pending reminder
- removed

Every state is linked to a type, which needs to be specified if a new state is created. By default the state types are:

- closed
- merged
- new
- open
- pending auto
- pending reminder
- removed

1.12. SysConfig

The SysConfig link leads to the section where many OTRS configuration options are maintained.

The SysConfig link on the Admin page loads the graphical interface for system configuration (see Figure below). You can upload your own configuration files for the system, as

well as backup all your current settings into a file. Almost all configuration parameters of the OTRS framework and installed applications can be viewed and changed through this interface. Since all configuration parameters are sorted into groups and sub groups, it is possible to navigate quickly through the vast number of existing parameters. It is also possible to perform a full-text search through all of the configuration parameters.

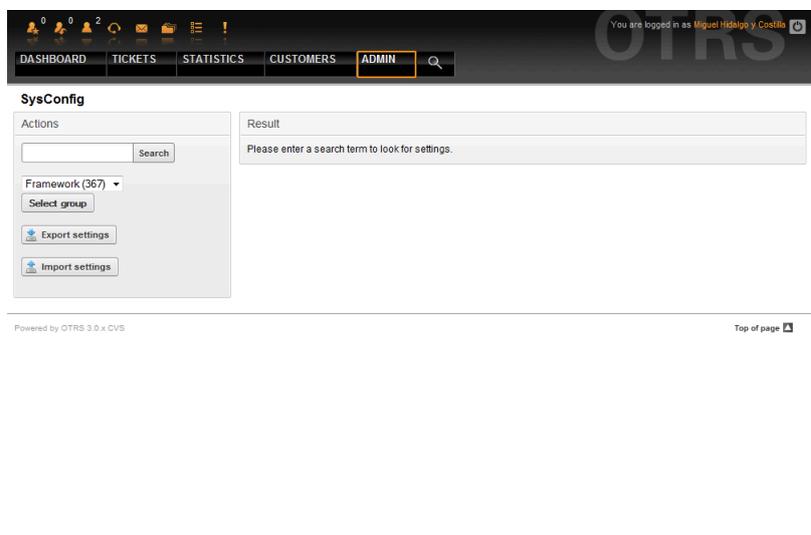


Figure: The graphical interface for system configuration (SysConfig).

The graphical interface for system configuration is described in more detail in the chapter "Configuring the system through the web interface".

1.13. Using mail accounts

There are several possibilities to transport new emails into the ticket system. One way is to use a local MTA and the `otrs.PostMaster.pl` script that pipes the mails directly into the system. Another possibility is the use of mail accounts which can be administrated through the web interface. The "PostMaster Mail Accounts" link on the Admin page loads the management console for the mail accounts (see Figure below). OTRS supports the mail protocols: POP3, POP3S, IMAP and IMAPS.

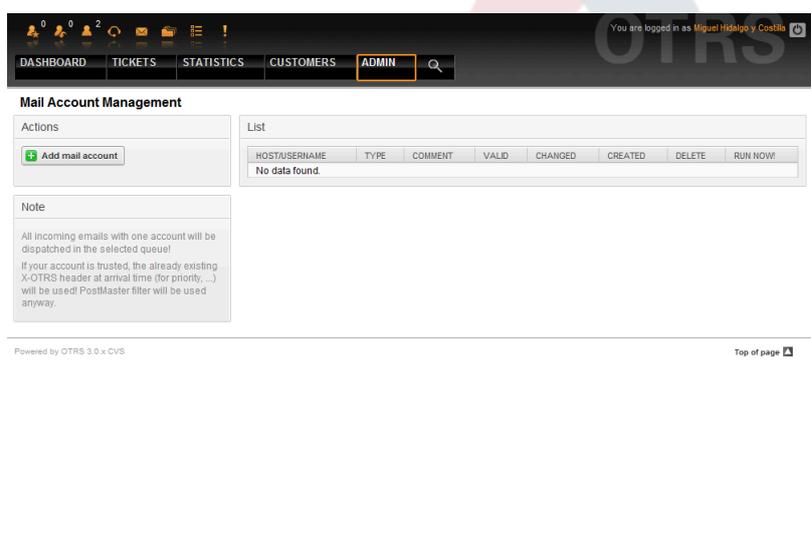


Figure: Mail account management.

See the section about PostMaster Mail Accounts for more details.

1.14. Filtering incoming email messages

OTRS has the capability to filter incoming email messages. For example, it is possible to put certain emails automatically into specified queues, or to set a specific state or ticket type for some mails. The filters apply to all incoming mails. You can manage your filters via the link "PostMaster Filter" on the Admin page (see Figure below).

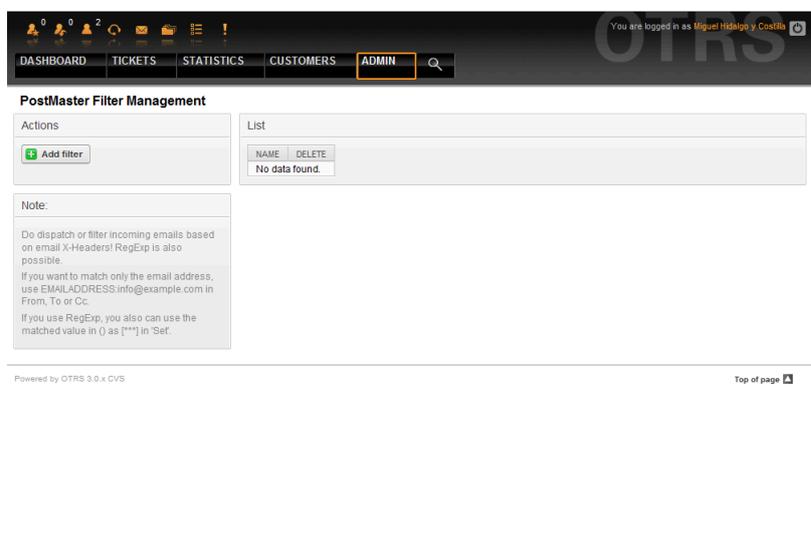


Figure: PostMaster filter management.

A filter consists of one or more criteria that must be met in order for the defined actions to be executed on the email. Filter criteria may be defined for the headers or the body of an email, e.g. search for specific header entries, such as a sender address, or on strings in the body. Even regular expressions can be used for extended pattern matching. If your filter matches, you can set fields using the X-OTRS headers in the GUI. These values will be applied when creating the ticket or follow-up message in OTRS. The Table 5-4 lists the different X-OTRS headers and their meaning.

Note: You also can use X-OTRS-FollowUp-* headers to set values for follow up emails.

Table 4.5. Function of the different X-OTRS-headers

Name	Possible values	Description
X-OTRS-Priority:	1 very low, 2 low, 3 normal, 4 high, 5 very high	Sets the priority of a ticket.
X-OTRS-Queue:	Name of a queue in the system.	Sets the queue where the ticket shall be sorted. If set in X-OTRS header, all other filter rules that try to sort a ticket into a specific queue are ignored. If you use a sub-queue, specify it as "Parent::Sub".
X-OTRS-Lock:	lock, unlock	Sets the lock state of a ticket.
X-OTRS-Ignore:	Yes or True	If this X-OTRS header is set to "Yes", the incoming message will completely be ignored and never delivered to the system.

Name	Possible values	Description
X-OTRS-State:	new, open, closed successful, closed unsuccessful, ...	Sets the next state of the ticket.
X-OTRS-State-PendingTime:	e. g. 2010-11-20 00:00:00	Sets the pending time of a ticket (you also should sent a pending state via X-OTRS-State). You can specify absolute dates like "2010-11-20 00:00:00" or relative dates, based on the arrival time of the email. Use the form "+ \$Number \$Unit", where \$Unit can be 's' (seconds), 'm' (minutes), 'h' (hours) or 'd' (days). Only one unit can be specified. Examples of valid settings: "+50s" (pending in 50 seconds), "+30m" (30 minutes), "+12d" (12 days). Note that settings like "+1d 12h" are not possible. You can specify "+36h" instead.
X-OTRS-Type:	default (depends on your setup)	Sets the type of a ticket (if Ticket::Type is activated).
X-OTRS-Service:	(depends on your setup)	Sets the service of a ticket (if Ticket::Service is active). If you want to set a sub-service you should specify it as "Parent::Sub".
X-OTRS-SLA:	(depends on your setup)	Sets the SLA of a ticket (if Ticket::Service support is active).
X-OTRS-CustomerUser:	CustomerUser	Sets the customer user for the ticket.
X-OTRS-CustomerNo:	CustomerNo	Sets the customer ID for this ticket.
X-OTRS-SenderType:	agent, system, customer	Sets the type of the ticket sender.
X-OTRS-ArticleType:	email-external, email-internal, email-notification-ext, email-notification-int, phone, fax, sms, webrequest, note-internal, note-external, note-report	Sets the article type for the incoming ticket.
X-OTRS-DynamicField-<DynamicFieldName>:	Depends on Dynamic Field configuration (Text: Notebook, Date: 2010-11-20 00:00:00, Integer: 1)	Saves an additional info value for the ticket on <DynamicFieldName> Dynamic Field.
X-OTRS-Loop:	True	If this X-OTRS header is set, no auto answer is delivered to the sender of the message (mail loop protection).

You should specify a name for every filter rule. Filter criteria can be specified in the section "Filter Condition". Choose via the listboxes for "Header 1", "Header 2" and so on for the parts of the messages where you would like to search, and specify on the right side the values you wish to filter on. In the section "Set Email Headers", you can choose the actions that are triggered if the filter rules match. You can select for "Header 1", "Header 2" and so on to select the X-OTRS-Header and set the associated values (see Figure below). Filter rules are evaluated in alphabetical order, and are all executed except if the "Stop after match" setting has been set to "Yes" in one of the rule (in this case evaluation of the remaining filters is cancelled).

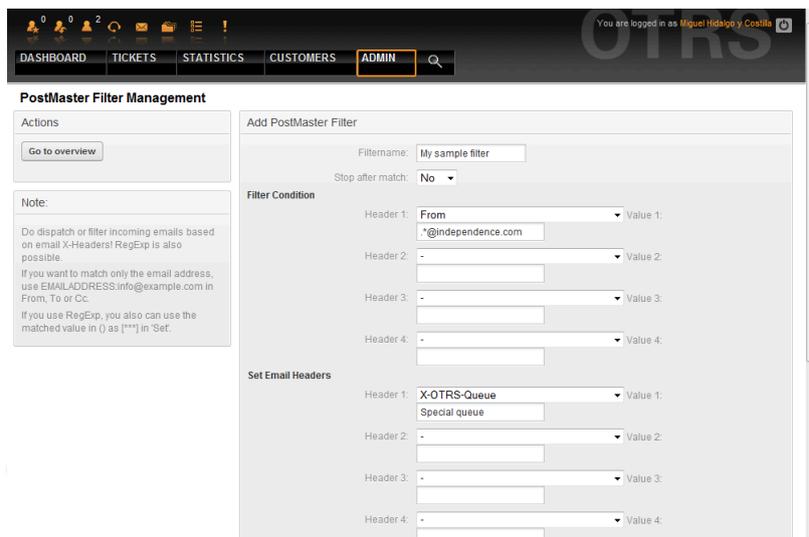


Figure: Add a PostMaster filter.

Example 4.1. Sort spam mails into a specific queue

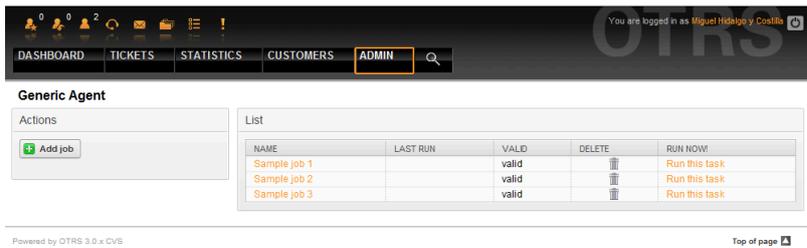
A useful filter rule would be to let OTRS automatically move mails marked for spam, by using a spam detection tool such as SpamAssassin, into the "Junk" queue. SpamAssassin adds the "X-Spam-Flag" header to every checked mail. When the mail is marked as spam, the Header is set to "Yes". So the filter criteria would be "X-Spam-Flag: Yes". To create a filter rule with this criteria you can insert the name as, for example, "spam-mails". In the section for "Filter Condition", choose "X-Spam-Flag:" for "Header 1" from the listbox. Insert "Yes" as value for this header. Now the filter criteria is specified. To make sure that all spam mails are placed into the "Junk" queue, choose in the section for "Set Email Headers", the "X-OTRS-Queue:" entry for "Header 1". Specify "Junk" as value for this header. Finally add the new filter rule to activate it for new messages in the system.

There are additional modules, that can be used to filter incoming messages more specifically. These modules might be useful when dealing with larger, more complex systems.

1.15. Executing automated jobs with the GenericAgent

The GenericAgent is a tool to execute tasks automatically. The GenericAgent, for example, can close or move tickets, send notifications on escalated tickets, etc.

Click the link "GenericAgent" on the Admin page (see Figure below). A table with all automated jobs in the system is displayed. These jobs can then be edited, run manually or removed entirely.



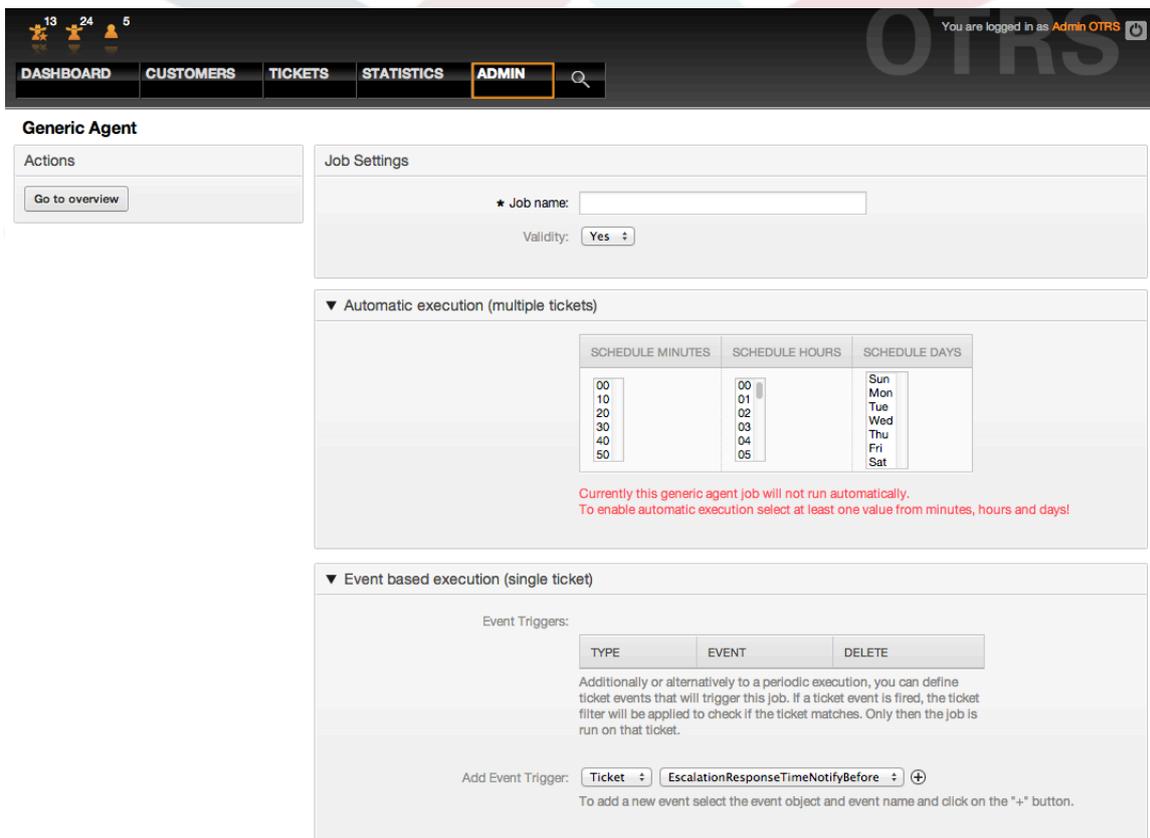
The screenshot shows the OTRS Admin interface. At the top, there is a navigation bar with tabs for DASHBOARD, TICKETS, STATISTICS, CUSTOMERS, and ADMIN. The ADMIN tab is selected. Below the navigation bar, the page title is "Generic Agent". On the left, there is an "Actions" panel with a green "Add job" button. On the right, there is a "List" table with the following data:

NAME	LAST RUN	VALID	DELETE	RUN NOW
Sample job 1		valid		Run this task
Sample job 2		valid		Run this task
Sample job 3		valid		Run this task

At the bottom of the page, it says "Powered by OTRS 3.0.x CVS" on the left and "Top of page" on the right.

Figure: Job list for the GenericAgent.

Click the "Add job" button to create a new job. You first need to supply a name. Then you can specify how the job will be executed: automatic at fixed times (like a cronjob, this mode will operate on all tickets found by the ticket filter) or based on ticket events (right after a single ticket was modified, if it matches the ticket filter). Note that if you manually run event based jobs from the overview screen, they will operate on all tickets found by the ticket filter.



The screenshot shows the OTRS Admin interface for creating a new Generic Agent job. The navigation bar is the same as in the previous screenshot. The page title is "Generic Agent". On the left, there is an "Actions" panel with a "Go to overview" button. The main content area is titled "Job Settings" and contains the following form elements:

- Job name:** A text input field.
- Validity:** A dropdown menu with "Yes" selected.
- Automatic execution (multiple tickets):** A section with three columns: "SCHEDULE MINUTES", "SCHEDULE HOURS", and "SCHEDULE DAYS". Each column has a list of values to select from. Below this section, there is a red warning message: "Currently this generic agent job will not run automatically. To enable automatic execution select at least one value from minutes, hours and days!"
- Event based execution (single ticket):** A section titled "Event Triggers:" with a table:

TYPE	EVENT	DELETE

 Below the table, there is a text block: "Additionally or alternatively to a periodic execution, you can define ticket events that will trigger this job. If a ticket event is fired, the ticket filter will be applied to check if the ticket matches. Only then the job is run on that ticket."
- Add Event Trigger:** A dropdown menu with "Ticket" selected, followed by another dropdown menu with "EscalationResponseTimeNotifyBefore" selected, and a "+" button.

At the bottom of the "Event based execution" section, there is a note: "To add a new event select the event object and event name and click on the '+' button."

Figure: Creating a job for the GenericAgent.

For every job, you can specify a ticket filter, for example to only operate on tickets in a certain queue. All filter criteria must be met for a job to be run on a ticket.

Finally, the ticket can be modified by setting various ticket fields like a new queue or state. It is possible to attach a note to the ticket(s) or run a execute a customized module. You also have the option to delete the ticket(s) from the database. This can be useful to purge outdated or invalid data from the system.

Warning

If you use the ticket delete function, all affected tickets and their attachments will be removed from the database and cannot be restored!

After editing a job, OTRS will return to the overview screen. There you have the possibility to run any job manually. If you choose to run a job, you will first see all tickets which will be affected when the job actually is run. This list helps you to verify that the job is working as intended. At this point no changes have been made to these tickets yet. Only if you confirm the screen the job will be executed.

1.16. Admin email

OTRS administrators can send messages to specific users or groups. The "Admin Notification" link on the Admin page opens the screen where the agents and groups that should be notified can be selected (see Figure below).

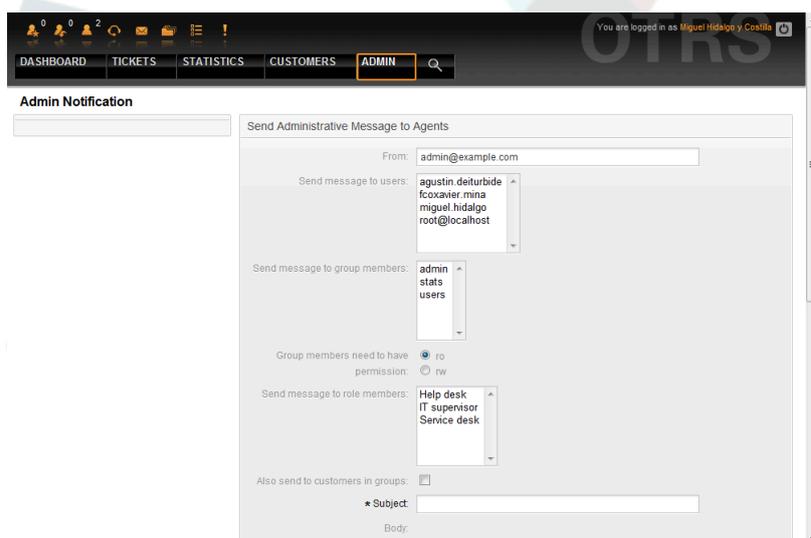
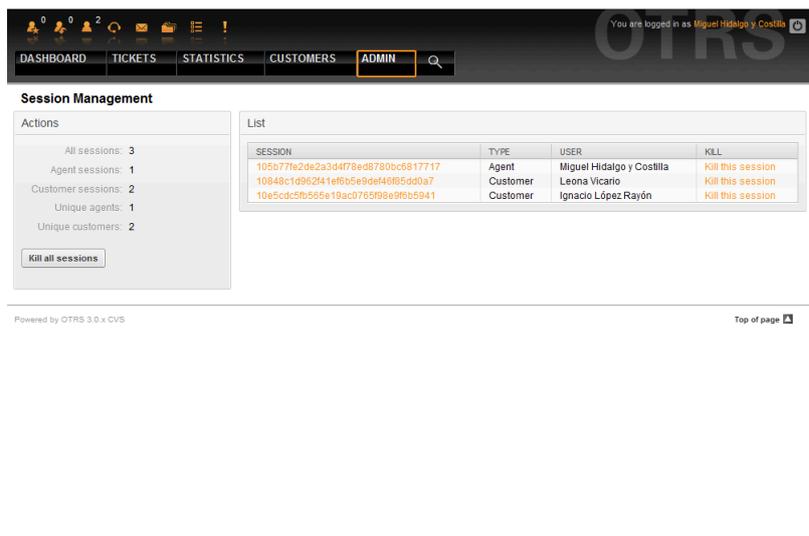


Figure: Admin notification.

It is possible to specify the sender, subject and body text of the notification. You can also select the agents, groups and roles who should receive the message.

1.17. Session management

You can see all logged in users and their session details by clicking the "Session Management" link in the admin area (see Figure below).



The screenshot shows the OTRS Admin interface for Session Management. The top navigation bar includes Dashboard, Tickets, Statistics, Customers, and Admin. The Session Management section displays statistics on the left and a list of sessions on the right.

SESSION	TYPE	USER	KILL
105b77fe2de2a3d4f79ed8780bc6817717	Agent	Miguel Hidalgo y Costilla	Kill this session
10848c1d962f41ef6b5e9de4895d0a7	Customer	Leona Vicario	Kill this session
10e5cdcf5b555e19ac076598e9f6b5941	Customer	Ignacio López Rayón	Kill this session

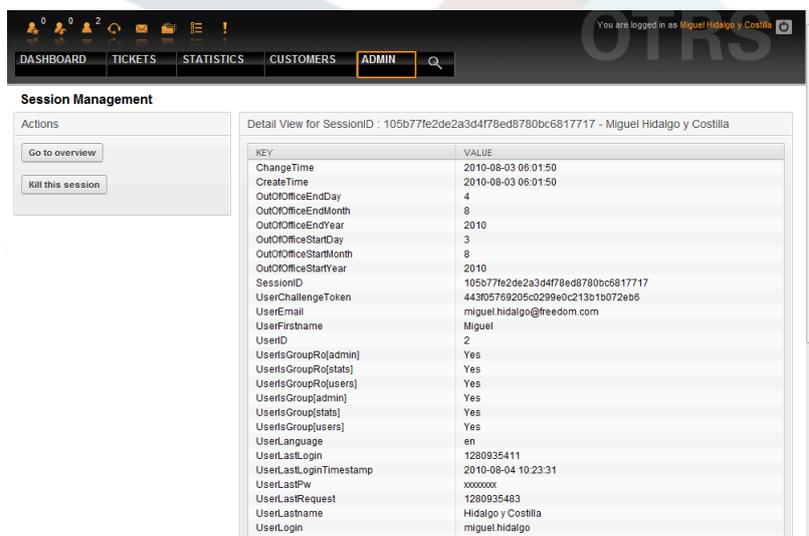
Statistics shown on the left:

- All sessions: 3
- Agent sessions: 1
- Customer sessions: 2
- Unique agents: 1
- Unique customers: 2

Buttons: Kill all sessions

Figure: Session management.

Some statistics about all active sessions are displayed, e.g. how many agents and customer users are logged in and the number of active sessions. Any individual session can be removed by clicking on the *Kill this session* link on the right-hand side of the list. You also have the option to *Kill all sessions*, which can be useful if you want to take the system offline. Detailed information for every session is available, too (see Figure below).



The screenshot shows the OTRS Admin interface for Session Management, displaying detailed information for a specific session. The top navigation bar includes Dashboard, Tickets, Statistics, Customers, and Admin. The Session Management section displays statistics on the left and a detailed view of a session on the right.

Statistics shown on the left:

- Go to overview
- Kill this session

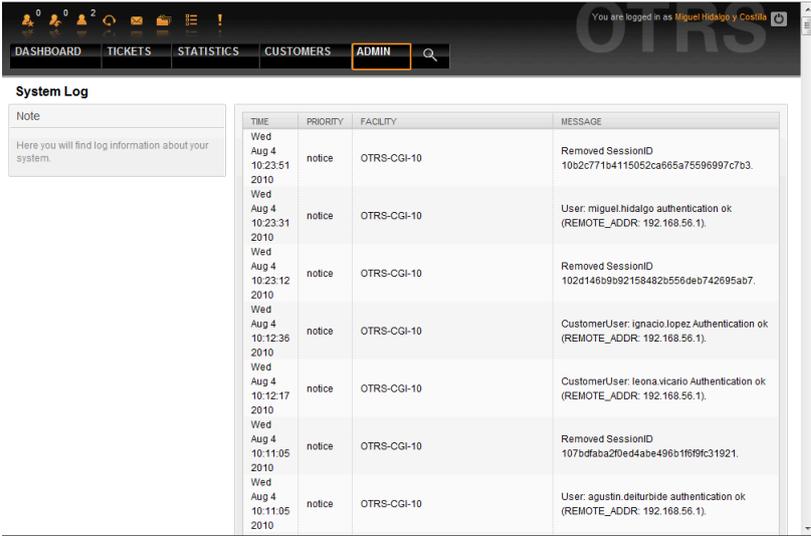
Detail View for SessionID : 105b77fe2de2a3d4f79ed8780bc6817717 - Miguel Hidalgo y Costilla

KEY	VALUE
ChangeTime	2010-08-03 06:01:50
CreateTime	2010-08-03 06:01:50
OutOfficeEndDay	4
OutOfficeEndMonth	8
OutOfficeEndYear	2010
OutOfficeStartDay	3
OutOfficeStartMonth	8
OutOfficeStartYear	2010
SessionID	105b77fe2de2a3d4f79ed8780bc6817717
UserChallengeToken	443057f9205c0299e0c213b1b072eb6
UserEmail	miguel.hidalgo@freedom.com
UserFirstname	Miguel
UserID	2
UsersGroupRo(admin)	Yes
UsersGroupRo(stats)	Yes
UsersGroupRo(users)	Yes
UsersGroup(admin)	Yes
UsersGroup(stats)	Yes
UsersGroup(users)	Yes
UserLanguage	en
UserLastLogin	1280935411
UserLastLoginTimestamp	2010-08-04 10:23:31
UserLastPw	xxxxxxx
UserLastRequest	1280935483
UserLastname	Hidalgo y Costilla
UserLogin	miguel.hidalgo
UserPw	xxxxxxx

Figure: Session details.

1.18. System Log

The "System Log" link on the Admin page shows the log entries of the system, reverse chronologically sorted with most recent first (see Figure below).



The screenshot shows the OTRS Admin interface with the 'ADMIN' tab selected. The 'System Log' section is active, displaying a table of log entries. A note on the left states: 'Here you will find log information about your system.'

TIME	PRIORITY	FACILITY	MESSAGE
Wed Aug 4 10:23:51 2010	notice	OTRS-CGI-10	Removed SessionID 10b2c771b4115052ca665a75596997c7b3.
Wed Aug 4 10:23:31 2010	notice	OTRS-CGI-10	User: miguel.hidalgo authentication ok (REMOTE_ADDR: 192.168.56.1).
Wed Aug 4 10:23:12 2010	notice	OTRS-CGI-10	Removed SessionID 102d146b9b92158482b556deb742695ab7.
Wed Aug 4 10:12:36 2010	notice	OTRS-CGI-10	CustomerUser: ignacio.lopez Authentication ok (REMOTE_ADDR: 192.168.56.1).
Wed Aug 4 10:12:17 2010	notice	OTRS-CGI-10	CustomerUser: leona.vicario Authentication ok (REMOTE_ADDR: 192.168.56.1).
Wed Aug 4 10:11:05 2010	notice	OTRS-CGI-10	Removed SessionID 107bdfaba2f0ed4abe496b1f8f9fc31921.
Wed Aug 4 10:11:05 2010	notice	OTRS-CGI-10	User: agustn.delurbide authentication ok (REMOTE_ADDR: 192.168.56.1).

Figure: System Log.

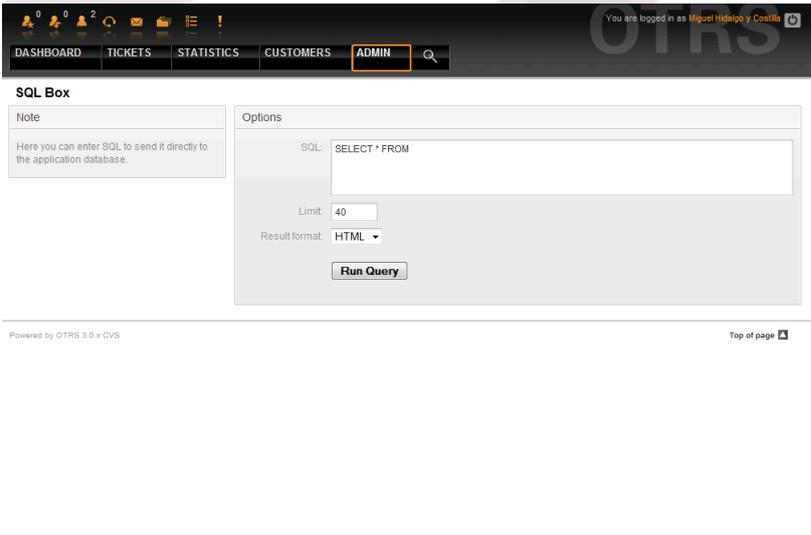
Each line in the log contains a time stamp, the log priority, the system component and the log entry itself.

Note

System logs are available via the web interface only on Linux / Unix systems. On Windows systems, you can see the logs using a text editor by opening the file [install_dir]otrs\var\log\otrs.log.

1.19. SQL queries via the SQL box

The "SQL Box" link on the Admin page opens a screen that lets you query the content of the tables in the OTRS database (see Figure below). It is not possible to change the content of the tables, only 'select' queries are allowed.



The screenshot shows the OTRS Admin interface with the 'ADMIN' tab selected. The 'SQL Box' section is active. A note on the left states: 'Here you can enter SQL to send it directly to the application database.'

Options:

SQL:

Limit:

Result format:

Powered by OTRS 3.0.x CVS Top of page

Figure: SQL Box.

1.20. Package Manager

Using the "Package Manager" link on the Admin page, you can install and manage packages that extend the functionality of OTRS (see Figure below). See the Additional applica-

tions section for a discussion on the extensions that are available from the OTRS repositories.

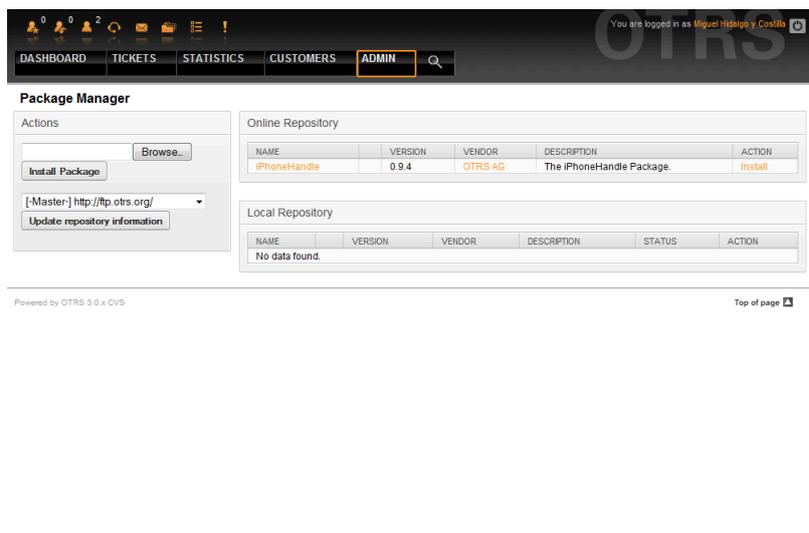


Figure: Package Manager.

The Package Manager shows the OTRS addon packages you currently have installed on your server, together with their version numbers.

You can install packages from a remote host by selecting the repository in the *Online Repository* section, and clicking the *Update repository information* button. The available packages are displayed in the corresponding table. The right side of the screen shows the available packages. To install a package, click on *Install*. After installation, the package is displayed in the *Local Repository* section.

To upgrade an installed package, the list of available packages in the online repository will show *Upgrade* in the Action column for any package that has a higher version than the one that is installed locally. Just click Upgrade and it will install the new package version on your system.

In some cases, such as when your OTRS system is not connected to the Internet, you can also install those packages that you have downloaded to a local disk. Click the *Browse* button on the Actions side bar, and select the .opm file of the package on your disk. Click *Open* and then *Install Package*. After the installation has been completed, the package is displayed in the *Local Repository* section. You can use the same steps for updating a package that is already installed.

In special cases, you might want to configure the Package Manager, e.g., to use a proxy or to use a local repository. Just take a look at the available options in SysConfig under Framework:Core::Package.

1.21. Web Services

The Web Services link leads to the graphical interface where web services (for the OTRS Generic Interface) are created and maintained (see Figure below).

GenericInterface Web Service Management - Overview

 » **Web Services**

Actions		Web Service List					
<input type="button" value="Add web service"/>		NAME	DESCRIPTION	REMOTE SYSTEM	PROVIDER TRANSPORT	REQUESTER TRANSPORT	VALIDITY
		No data found.					

Figure: The graphical interface for web services.

The graphical interface for web services configuration is described in more detail in the section "Web Service Graphical Interface".

1.22. Dynamic Fields

Dynamic Fields is the place where you setup and manage custom fields for tickets and articles (see figure below).

DASHBOARD
TICKETS
STATISTICS
CUSTOMERS
ADMIN
You are logged in as...

Dynamic Fields Management - Overview

Actions

Article

Add new field for object: Article

Ticket

Add new field for object: Ticket

Hint

To add a new field, select the field type form one of the object's list, the object defines the boundary of the field and it can't be changed after the field creation.

Dynamic Fields List

NAME	LABEL	ORDER	TYPE	OBJECT	VALIDITY
Field1	My Field 1	1	Text	Ticket	valid
Field2	My Field 2	2	Textarea	Ticket	valid
Field3	My Field 3	3	Checkbox	Ticket	valid
Field4	My Field 4	4	Dropdown	Ticket	valid
Field5	My Field 5	5	Multiselect	Ticket	valid
Field6	My Field 6	6	Date	Ticket	valid
Field7	My Field 7	7	Date / Time	Ticket	valid

Powered by OTRS 3.1.x CVS

Figure: The dynamic fields overview screen with some dynamic fields.

The dynamic fields configuration is described in more detail in the section "Dynamic Fields Configuration".

Each dynamic field type has its own configuration settings and therefore its own configuration screen.

Note

In the OTRS framework, dynamic fields can only be linked to tickets and articles by default, but they can be extended to other objects as well.

2. System Configuration

2.1. OTRS config files

All OTRS configuration files are stored in the directory `Kernel` and in its subdirectories. There is no need to manually change any other file than `Kernel/Config.pm`, because the rest of the files will be changed when the system gets upgraded. Just copy the configuration parameters from the other files into `Kernel/Config.pm` and change them as per your needs. This file will never be touched during the upgrade process, so your manual settings are safe.

In the directory `Kernel/Config/Files` there are some other files that are parsed when the OTRS login page is accessed. If additional applications like the FAQ or the File Manager are installed, the configuration files for those can also be found in the mentioned path.

If the OTRS web interface is accessed, all `.xml` files in the `Kernel/Config/Files` directory are parsed in alphabetical order, and the settings for the central framework and additional applications will be loaded. Afterwards, the settings in the

files `Kernel/Config/Files/ZZZAAuto.pm`, `Kernel/Config/Files/ZZZAuto.pm` and `Kernel/Config/Files/ZZZProcessManagement.pm` (if it exists) will be evaluated. These files are used by the graphical interface for system configuration caching and should never be changed manually. Lastly, the file `Kernel/Config.pm` that contains your individual settings and manually changed configuration parameters, will be parsed. Reading the configuration files in this order makes sure that your specific configuration settings are used by the system.

2.2. Configuring the system through the web interface

Since OTRS 2.0, nearly all configuration parameters of the central framework or additional installed applications, can be changed easily with the graphical interface for system configuration. Log in as OTRS administrator and follow the SysConfig link on the Admin page to execute the new configuration tool (see Figure below).

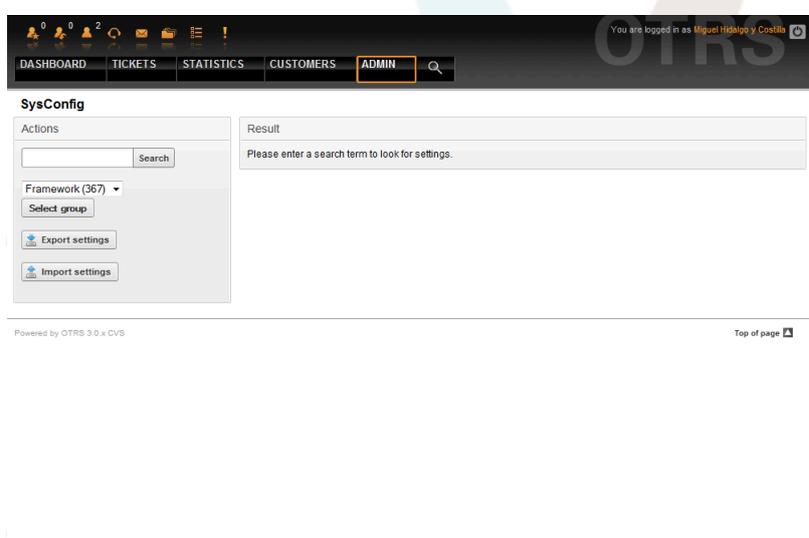


Figure: The graphical interface for system configuration.

OTRS currently has over 600 configuration parameters, and there are different ways to quickly access a specific one. With the full text search, all configuration parameters can be scanned for one or more keywords. The full text search not only searches through the names of the configuration parameters, but also through the descriptions of the parameters. This allows an element to be found easily even if its name is unknown.

Furthermore, all configuration parameters are sorted in main groups and sub groups. The main group represents the application that the configuration parameter belongs to, e.g. "Framework" for the central OTRS framework, "Ticket" for the ticket system, "FAQ" for the FAQ system, and so on. The sub groups can be accessed if the application is selected from the groups listbox and the "Select group" button is pressed.

Every configuration parameter can be turned on or off via a checkbox. If the parameter is turned off, the system will ignore this parameter or use a default. It is possible to switch a changed configuration parameter back to the system default using the Reset link. The Update button submits all changes to system configuration parameters.

If you want to save all the changes you made to your system's configuration, for example to setup a new installation quickly, you can use the "Export settings" button, which will create a `.pm` file. To restore your own settings, just press the "Import settings" and select the `.pm` created before.

Note

For security reasons, the configuration parameters for the database connection cannot be changed in the SysConfig section. They have to be set manually in Kernel/Config.pm.

3. Backing up the system

This chapter describes the backup and restore of the OTRS data.

3.1. Backup

There are two types of data to backup: application files (e.g. the files in /opt/otrs), and the data stored in the database.

To simplify backups, the script scripts/backup.pl is included with every OTRS installation. It can be run to backup all important data (see Script below).

```
linux:/opt/otrs# cd scripts/  
linux:/opt/otrs/scripts# ./backup.pl --help  
backup.pl <Revision 1.1> - backup script  
Copyright (c) 2001-2005 Martin Edenhofer <martin@otrs.org>  
usage: backup.pl -d /data_backup/ [-c bzip2|gzip] [-r 30] [-t nofullbackup]  
linux:/opt/otrs/scripts#
```

Script: Getting help about the OTRS backup mechanism.

Execute the command specified in the script below to create a backup:

```
linux:/opt/otrs/scripts# ./backup.pl -d /backup/  
Backup /backup//2010-09-07_14-28/Config.tar.gz ... done  
Backup /backup//2010-09-07_14-28/Application.tar.gz ... done  
Dump MySQL rdbms ... done  
Compress SQL-file... done  
linux:/opt/otrs/scripts#
```

Script: Creating a backup.

All data was stored in the directory /backup/2010-09-07_14-28/ (see Script below). Additionally, the data was saved into a .tar.gz file.

```
linux:/opt/otrs/scripts# ls /backup/2010-09-07_14-28/  
Application.tar.gz Config.tar.gz DatabaseBackup.sql.gz  
linux:/opt/otrs/scripts#
```

Script: Checking the backup files.

3.2. Restore

To restore a backup, the saved application data has to be written back into the installation directory, e.g. /opt/otrs. Also the database has to be restored.

A script scripts/restore.pl (see Script below), which simplifies the restore process, is shipped with every OTRS installation. It supports MySQL and PostgreSQL.

```
linux:/opt/otrs/scripts# ./restore.pl --help  
restore.pl <Revision 1.1> - restore script
```

```
Copyright (c) 2001-2005 Martin Edenhofer <martin@otrs.org>
usage: restore.pl -b /data_backup/<TIME>/ -d /opt/otrs/
linux:/opt/otrs/scripts#
```

Script: Getting help about the restore mechanism.

Data that is stored, for example, in the directory `/backup/2010-09-07_14-28/`, can be restored with the command specified in the script below, assuming the OTRS installation is at `/opt/otrs`.

```
linux:/opt/otrs/scripts# ./restore.pl -b /backup/2010-09-07_14-28 -d /opt/otrs/
Restore /backup/2010-09-07_14-28//Config.tar.gz ...
Restore /backup/2010-09-07_14-28//Application.tar.gz ...
create MySQL
decompresses SQL-file ...
cat SQL-file into MySQL database
compress SQL-file...
linux:/opt/otrs/scripts#
```

Script: Restoring OTRS data.

4. Email settings

4.1. Sending/Receiving emails

4.1.1. Sending emails

4.1.1.1. Via Sendmail (default)

OTRS can send out emails via [Sendmail](#), [Postfix](#), [Qmail](#) or [Exim](#)). The default configuration is to use Sendmail and should work out-of-the-box.

You can configure the sendmail settings via the graphical configuration frontend (Framework::Core::Sendmail)

4.1.1.2. Via SMTP server or smarthost

OTRS can send emails via SMTP ([Simple Mail Transfer Protocol / RFC 821](#)) or Secure SMTP. You will want to use this on non-UNIX platforms (e.g. Windows).

The SMTP server settings can be configured via the SysConfig (Framework::Core::Sendmail). If you don't see SMTPS available as an option, the required Perl modules are missing. In that case, please refer to "Installation of Perl modules required for OTRS" for instructions.

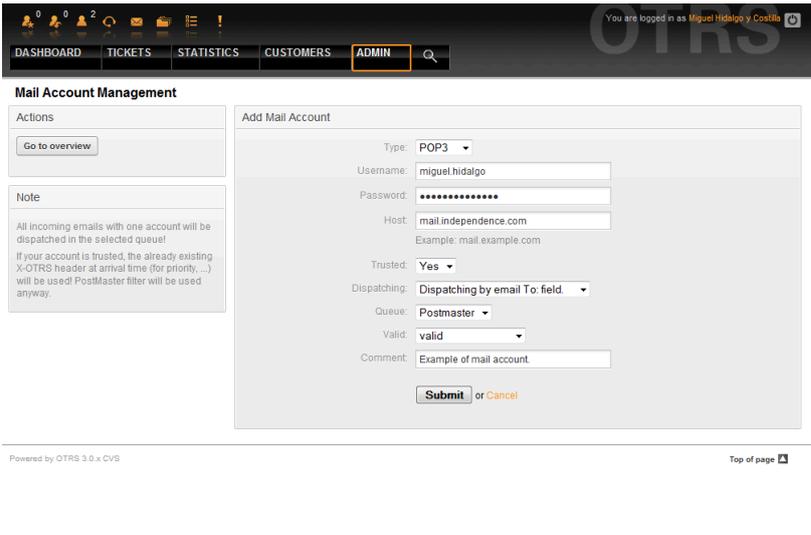
4.1.2. Receiving emails

4.1.2.1. Mail accounts configured via the OTRS GUI

OTRS is able to receive emails from POP3, POP3S, IMAP, and IMAPS mail accounts.

Configure your mail accounts via the PostMaster Mail Accounts link on the Admin page.

If a new mail account is to be created (see Figure below), then its mail server name, login name and password must be specified. Also, you need to select the mail server type, which can be POP3, POP3S, IMAP or IMAPS. If you don't see your server type available as an option, the required Perl modules are missing on your system. In that case, please refer to "Installation of Perl modules required for OTRS" for instructions.



The screenshot shows the OTRS Admin interface for 'Mail Account Management'. The 'Add Mail Account' form is the central focus, with the following fields and values: Type: POP3; Username: miguel.hidalgo; Password: masked with dots; Host: mail.independencia.com; Trusted: Yes; Dispatching: Dispatching by email To: field; Queue: Postmaster; Valid: valid; Comment: Example of mail account. There are 'Submit' and 'Cancel' buttons at the bottom of the form. The interface also includes a navigation menu at the top (Dashboard, Tickets, Statistics, Customers, Admin) and a sidebar with 'Actions' and 'Note' sections.

Figure: Adding a mail account.

If you select Yes for the value of the Trusted option, any X-OTRS headers attached to an incoming message are evaluated and executed. Because the X-OTRS header can execute some actions in the ticket system, you should set the Trusted option to Yes only for known senders. X-OTRS-Headers are used by the filter module in OTRS. The X-OTRS headers are explained in this table in more detail. Any postmaster filter rules created are executed, irrespective of the Trusted option's setting.

The distribution of incoming messages can be controlled if they need to be sorted by queue or by the content of the "To:" field. For the Dispatching field, if "Dispatching by selected queue" is selected, all incoming messages will be sorted into the specified queue. The address where the mail was sent to is disregarded in this case. If "Dispatching by email To: field" is selected, the system checks if a queue is linked with the address in the To: field of the incoming mail. You can link an address to a queue in the E-mail address management section of the Admin page. If the address in the To: field is linked with a queue, the new message will be sorted into the linked queue. If no link is found between the address in the To: field and any queue, then the message flows into the "Raw" queue in the system, which is the PostmasterDefaultQueue after a default installation.

All data for the mail accounts are saved in the OTRS database. The `otrs.PostMaster-Mailbox.pl` script, which is located in the `bin` directory of your OTRS installation, uses the settings in the database and fetches the mail. You can execute `./bin/otrs.PostMasterMailbox.pl` manually to check if all your mail settings are working properly.

On a normal installation, the mail will be fetched every 10 minutes by the `postmaster_mailbox` cron job. For further information about modifying cron jobs, please refer to the "Setting up the cron jobs for OTRS" section.

Note

When fetching mail, OTRS deletes the mail from the POP or IMAP server. There is no option to also keep a copy on the server. If you want to retain a copy on the server, you should create forwarding rules on your mail server. Please consult your mail server documentation for details.

4.1.2.2. Via command line program and procmail (`otrs.PostMaster.pl`)

If you cannot use mail accounts to get the email into OTRS, the command line program `bin/otrs.PostMaster.pl` might be a way around the problem. It takes the mails via

STDIN and pipes them directly into OTRS. That means email will be available in your OTRS system if the MDA (mail delivery agent, e.g. procmail) executes this program.

To test `bin/otrs.PostMaster.pl` without an MDA, execute the command of the following script.

```
linux:/opt/otrs# cd bin
linux:/opt/otrs/bin# cat ../doc/sample_mails/test-email-1.box | ./otrs.PostMaster.pl
linux:/opt/otrs/bin#
```

Script: Testing PostMaster without the MDA.

If the email is shown in the QueueView, then your setup is working.

Procmail is a very common e-mail filter in Linux environments. It is installed on most systems. If not, have a look at the [procmail homepage](#).

To configure procmail for OTRS (based upon a procmail configured MTA such as sendmail, postfix, exim or qmail), use the `~otrs/.procmailrc.dist` file and copy it to `.procmailrc` and add the lines of the script below.

```
SYS_HOME=$HOME
PATH=/bin:/usr/bin:/usr/local/bin
# --
# Pipe all email into the PostMaster process.
# --
:0 :
| $SYS_HOME/bin/otrs.PostMaster.pl
```

Script: Configuring procmail for OTRS.

All email sent to the local OTRS user will be piped into `bin/otrs.PostMaster.pl` and then shown in your QueueView.

4.1.2.3. Fetching emails via POP3 or IMAP and fetchmail for `otrs.PostMaster.pl`

In order to get email from your mail server, via a POP3 or IMAP mailbox, to the OTRS machine/local OTRS account and to procmail, use [fetchmail](#).

Note

A working SMTP configuration on the OTRS machine is required.

You can use the `.fetchmailrc.dist` in the home directory of OTRS and copy it to `.fetchmailrc`. Modify/change it for your needs (see the Example 7-1 below).

Example 4.2. `.fetchmailrc`

```
#poll (mailserver) protocol POP3 user (user) password (password) is (localuser)
poll mail.example.com protocol POP3 user joe password mama is otrs
```

Don't forget to set the `.fetchmailrc` to 710 ("`chmod 710 .fetchmailrc`")!

With the `.fetchmailrc` from the Example 7-1 above, all email will be forwarded to the local OTRS account, if the command **fetchmail -a** is executed. Set up a cronjob with this command if you want to fetch the mails regularly.

4.1.2.4. Filtering/dispatching by OTRS/PostMaster modules (for more complex dispatching)

If you use the bin/otrs.PostMaster.pl or bin/otrs.PostMasterMailbox.pl method, you can insert or modify X-OTRS header entries with the PostMaster filter modules. With the X-OTRS headers, the ticket system can execute some actions on incoming mails, sort them into a specific queue, change the priority or change the customer ID, for example. More information about the X-OTRS headers are available in the section about adding mail accounts from the OTRS Admin page.

There are some default filter modules:

Note

The job name (e.g. \$Self->{'PostMaster::PreFilterModule'}->{'JobName'}) needs to be unique!

Kernel::System::PostMaster::Filter::Match is a default module to match on some email header (e.g. From, To, Subject, ...). It can set new email headers (e.g. X-OTRS-Ignore: yes or X-OTRS-Queue: spam) if a filter rule matches. The jobs of the Example 7-2 can be inserted in Kernel/Config.pm

Example 4.3. Example jobs for the filter module Kernel::System::PostMaster::Filter::Match

```
# Job Name: 1-Match
# (block/ignore all spam email with From: noreply@)
$Self->{'PostMaster::PreFilterModule'}->{'1-Match'} = {
    Module => 'Kernel::System::PostMaster::Filter::Match',
    Match => {
        From => 'noreply@',
    },
    Set => {
        'X-OTRS-Ignore' => 'yes',
    },
};

# Job Name: 2-Match
# (sort emails with From: sales@example.com and Subject: **ORDER**
# into queue 'Order')
$Self->{'PostMaster::PreFilterModule'}->{'2-Match'} = {
    Module => 'Kernel::System::PostMaster::Filter::Match',
    Match => {
        To => 'sales@example.com',
        Subject => '**ORDER**',
    },
    Set => {
        'X-OTRS-Queue' => 'Order',
    },
};
```

Kernel::System::PostMaster::Filter::CMD is a default module to pipe the email into an external command. The output is given to STDOUT and if the result is true, then set new email header (e.g. X-OTRS-Ignore: yes or X-OTRS-Queue: spam). The Example 7-3 can be used in Kernel/Config.pm

Example 4.4. Example job for the filter module Kernel::System::PostMaster::Filter::CMD

```
# Job Name: 5-SpamAssassin
# (SpamAssassin example setup, ignore spam emails)
$Self->{'PostMaster::PreFilterModule'}->{'5-SpamAssassin'} = {
    Module => 'Kernel::System::PostMaster::Filter::CMD',
```

```

CMD => '/usr/bin/spamassassin | grep -i "X-Spam-Status: yes"',
Set => {
  'X-OTRS-Ignore' => 'yes',
},
};

```

Kernel::System::PostMaster::Filter::ExternalTicketNumberRecognition is a default module that adds the possibility to parse external identifiers, in the email subject, the body or both using regular expressions. It then stores this value in a defined dynamic field. When an email comes in, OTRS will first search for an external identifier and when it finds one, query OTRS on the pre-defined dynamic field field. If it finds an existing ticket, it will update this ticket, otherwise it will create a new ticket with the external reference number in the separate field.

OTRS SysConfig already provide 4 different settings to setup different external ticket numbers. If more settings are needed they need to be added manually. The following example can be used in Kernel/Config.pm to extend SysConfig settings.

Example 4.5. Example job for the filter module Kernel::System::PostMaster::Filter::ExternalTicketNumberRecognition

```

# Job Name: ExternalNumber
# External Ticket Number Reconition, check for Incident-<number> in incoming mails
subject and
# body from the addeesses <sender>@externalticket.com, if number is found it will be
stored in
# the dynamic field 'ExternalNumber' (that need to be setup in the Admin Panel).
$self->{'PostMaster::PreFilterModule'}->{'000-ExternalTicketNumberRecognition5'} = {
  'FromAddressRegExp' => '\\s*@externalticket.com',
  'NumberRegExp'      => 'Incident-(\\d.*)',
  'SearchInSubject'   => '1',
  'SearchInBody'      => '1',
  'TicketStateTypes' => 'new;open'
  'DynamicFieldName' => 'ExternalNumber',
  'Module'            =>
'Kernel::System::PostMaster::Filter::ExternalTicketNumberRecognition',
  'Name'              => 'Test External Ticket Number',
  'SenderType'        => 'system',
};

```

Configuration Options

- FromAddressRegExp

This is an optional setting. Only mails matching this "From:" address will be considered for this filter. You can adjust this setting to the sender address your external system uses for outgoing mails. In case this address can differ, you can set this option to empty. OTRS will in that case not check the sender address.

- NumberRegExp

This is a mandatory setting. This setting contains the regular expression OTRS will use to extract the ticket number out of the subject and/or ticket body. The default regular expression will match occurrences of for example 'Incident-12354' and will put the part between parentheses in the dynamic field field, in this case '12354'.

- SearchInSubject

If this is set to '1', the email subject is searched for a ticket number.

- SearchInBody

If this is set to '1', the email body is searched for a ticket number.

- TicketStateTypes

This is an optional setting. If given, it will search OTRS only for open external tickets of given state types. The state types are separated with semicolons.

- DynamicField

This is a required setting. It defines the dynamic field that is used to store the external number (the field name must exist in the system and has to be valid).

- SenderType

This defines the sender type used for the articles created in OTRS.

Of course it's also possible to develop your own PostMaster filter modules.

4.2. Secure email with PGP

OTRS has the capability to sign or encrypt outgoing messages with PGP. Furthermore, encrypted incoming messages can be decrypted. Encryption and decryption are done with the GPL tool GnuPG. To setup GnuPG for OTRS, the following steps have to be performed:

1. Install GnuPG, via the package manager of your operating system.
2. Configure GnuPG for use with OTRS. The necessary directories for GnuPG and a private key have to be created. The command shown in the script below has to be executed as user 'otrs' from a shell.

```
linux:~# su otrs
linux:/root$ cd
linux:~$ pwd
/opt/otrs
linux:~$ gpg --gen-key
gpg (GnuPG) 1.4.2; Copyright (C) 2005 Free Software Foundation, Inc.
This program comes with ABSOLUTELY NO WARRANTY.
This is free software, and you are welcome to redistribute it
under certain conditions. See the file COPYING for details.

gpg: directory `/opt/otrs/.gnupg' created
gpg: new configuration file `/opt/otrs/.gnupg/gpg.conf' created
gpg: WARNING: options in `/opt/otrs/.gnupg/gpg.conf' are not yet active during t
his run
gpg: keyring `/opt/otrs/.gnupg/secring.gpg' created
gpg: keyring `/opt/otrs/.gnupg/pubring.gpg' created
Please select what kind of key you want:
  (1) DSA and Elgamal (default)
  (2) DSA (sign only)
  (5) RSA (sign only)
Your selection? 1
DSA keypair will have 1024 bits.
ELG-E keys may be between 1024 and 4096 bits long.
What keysize do you want? (2048)
Requested keysize is 2048 bits
Please specify how long the key should be valid.
  0 = key does not expire
  <n> = key expires in n days
  <n>w = key expires in n weeks
  <n>m = key expires in n months
  <n>y = key expires in n years
Key is valid for? (0)
Key does not expire at all
Is this correct? (y/N) y

You need a user ID to identify your key; the software constructs the user ID
from the Real Name, Comment and Email Address in this form:
"Heinrich Heine (Der Dichter) <heinrichh@duesseldorf.de>"
```



```
linux:~# su otrs
linux:/root$ cd
linux:~$ pwd
/opt/otrs
linux:~$ gpg --list-keys
/opt/otrs/.gnupg/pubring.gpg
-----
pub 1024D/7245A970 2006-02-03
uid Ticket System (Private gpg key for ticket system with
address support@example.com) <support@example.com>
sub 2048g/52B97069 2006-02-03

linux:~$
```

Script: Getting the ID of your own private key.

The ID of the private key can be found in the line that starts with "sub". It is a hexadecimal string that is eight characters long, in the example above it is "52B97069". The password you have to specify for this key in the ticket system is the same that was given during key generation.

After this data is inserted, the "Update" button can be used to save the settings. OTRS is ready to receive and decrypt encoded messages now.

4. Finally, import a customer's public key. This ensures that encrypted messages can be sent out to this customer. There are two ways to import a public key of a customer.

The first way is to specify the public key of a customer in the customer management interface.

The second way is to specify the key via the PGP settings, reachable from the Admin page. On the right section of this screen, all already imported public keys of customers are displayed. After PGP has been activated and configured for OTRS, your own public key should also be listed there. In the left area of the PGP setting screen it is possible to search for keys. Also, a new public key can be uploaded into the system from a file.

The files with the public key that need to be imported into OTRS have to be GnuPG compatible key files. In most cases, the key stored in a file is an "ASCII armored key". OTRS can deal with this format.

4.3. Secure email with S/MIME

At first glance, encryption with S/MIME seems a little more complicated than with PGP. First, you have to establish a Certification Authority (CA) for the OTRS system. The subsequent steps are very much like those needed with PGP: configure OTRS, install your own certificate, import other public certificates as needed, etc.

The S/MIME configuration is conducted outside the OTRS web interface for the most part, and should be carried out in a shell by the 'otrs' user. The MIME configuration under Linux is based on SSL (OpenSSL). Therefore, check first of all whether the OpenSSL package is installed on your system. The OpenSSL package includes a script called CA.pl, with which the most important steps of certificate creation can be performed. To simplify the procedure, find out where in the filesystem the CA.pl script is stored and enter the location temporarily into the PATH variable of the shell (see Script below).

```
otrs@linux:~> rpm -ql openssl | grep CA
/usr/share/ssl/misc/CA.pl
otrs@linux:~> export PATH=$PATH:/usr/share/ssl/misc
otrs@linux:~> which CA.pl
/usr/share/ssl/misc/CA.pl
```

```
otrs@linux:~> mkdir tmp; cd tmp
otrs@linux:~/tmp>
```

Script: Configuring S/MIME.

The script above shows that a new temporary directory ~/tmp has been created, in which the certificate is to be generated.

To create a certificate, perform the following operations in the command line (we assume that the OTRS administrator has to create a SSL certificate for test and learning purposes. In case you already have a certified SSL certificate for the encryption, use it and skip these steps):

1. Establish your own Certification Authority for SSL. You need it to certify the request for your own SSL certificate (see Script below).

```
otrs@linux:~/tmp> CA.pl -newca
CA certificate filename (or enter to create)

Making CA certificate ...
Generating a 1024 bit RSA private key
...+++++
.....+++++
writing new private key to './demoCA/private/cakey.pem'
Enter PEM pass phrase:
Verifying - Enter PEM pass phrase:
-----
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
-----
Country Name (2 letter code) [AU]:DE
State or Province Name (full name) [Some-State]:OTRS-state
Locality Name (eg, city) []:OTRS-town
Organization Name (eg, company) [Internet Widgits Pty Ltd]:Your company
Organizational Unit Name (eg, section) []:
Common Name (eg, YOUR name) []:OTRS Admin
Email Address []:otrs@your-domain.tld
otrs@linux:~/tmp> ls -la demoCA/
total 8
-rw-r--r--  1 otrs otrs 1330 2006-01-08 17:54 cacert.pem
drwxr-xr-x  2 otrs otrs  48 2006-01-08 17:53 certs
drwxr-xr-x  2 otrs otrs  48 2006-01-08 17:53 crl
-rw-r--r--  1 otrs otrs   0 2006-01-08 17:53 index.txt
drwxr-xr-x  2 otrs otrs  48 2006-01-08 17:53 newcerts
drwxr-xr-x  2 otrs otrs  80 2006-01-08 17:54 private
-rw-r--r--  1 otrs otrs  17 2006-01-08 17:54 serial
otrs@linux:~/tmp>
```

Script: Establishing a Certification Authority for SSL.

2. Generate a certificate request (see Script below).

```
otrs@linux:~/tmp> CA.pl -newreq
Generating a 1024 bit RSA private key
.....+++++
....+++++
writing new private key to 'newreq.pem'
Enter PEM pass phrase:
Verifying - Enter PEM pass phrase:
-----
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
```

```

There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
-----
Country Name (2 letter code) [AU]:DE\keyreturn
State or Province Name (full name) [Some-State]:OTRS-state
Locality Name (eg, city) []:OTRS-town
Organization Name (eg, company) [Internet Widgits Pty Ltd]:Your company
Organizational Unit Name (eg, section) []:
Common Name (eg, YOUR name) []:OTRS admin
Email Address []:otrs@your-domain.tld

```

```

Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:
An optional company name []:
Request (and private key) is in newreq.pem
otrs@linux:~/tmp> ls -la
total 4
drwxr-xr-x  6 otrs otrs  232 2006-01-08 17:54 demoCA
-rw-r--r--  1 otrs otrs 1708 2006-01-08 18:04 newreq.pem
otrs@linux:~/tmp>

```

Script: Creating a certificate request.

3. Signing of the certificate request. The certificate request can either be signed and thereby certified by your own CA, or made more credible by being signed by another external certified CA (see Script below).

```

otrs@linux:~/tmp> CA.pl -signreq
Using configuration from /etc/ssl/openssl.cnf
Enter pass phrase for ./demoCA/private/cakey.pem:
Check that the request matches the signature
Signature ok
Certificate Details:
  Serial Number:
    fd:85:f6:9f:14:07:16:c8
  Validity
    Not Before: Jan  8 17:04:37 2006 GMT
    Not After : Jan  8 17:04:37 2007 GMT
  Subject:
    countryName           = DE
    stateOrProvinceName   = OTRS-state
    localityName          = OTRS-town
    organizationName      = Your Company
    commonName            = OTRS administrator
    emailAddress          = otrs@your-domain.tld
  X509v3 extensions:
    X509v3 Basic Constraints:
      CA:FALSE
    Netscape Comment:
      OpenSSL Generated Certificate
    X509v3 Subject Key Identifier:
      01:D9:1E:58:C0:6D:BF:27:ED:37:34:14:D6:04:AC:C4:64:98:7A:22
    X509v3 Authority Key Identifier:
      keyid:10:4D:8D:4C:93:FD:2C:AA:9A:B3:26:80:6B:F5:D5:31:E2:8E:DB:A8
      DirName:/C=DE/ST=OTRS-state/L=OTRS-town/O=Your Company/
      CN=OTRS admin/emailAddress=otrs@your-domain.tld
      serial:FD:85:F6:9F:14:07:16:C7

Certificate is to be certified until Jan  8 17:04:37 2007 GMT (365 days)
Sign the certificate? [y/n]:y

1 out of 1 certificate requests certified, commit? [y/n]:y
Write out database with 1 new entries
Data Base Updated
Signed certificate is in newcert.pem
otrs@linux:~/tmp>

```

Script: Signing of the certificate request.

4. Generate your own certificate, and all data going with it, using the signed certificate request (see Script below).

```
otrs@linux:~/tmp> CA.pl -pkcs12 "OTRS Certificate"
Enter pass phrase for newreq.pem:
Enter Export Password:
Verifying - Enter Export Password:
otrs@linux:~/tmp> ls -la
total 12
drwxr-xr-x  6 otrs otrs  328 2006-01-08 18:04 demoCA
-rw-r--r--  1 otrs otrs 3090 2006-01-08 18:13 newcert.p12
-rw-r--r--  1 otrs otrs 3791 2006-01-08 18:04 newcert.pem
-rw-r--r--  1 otrs otrs 1708 2006-01-08 18:04 newreq.pem
otrs@linux:~/tmp>
```

Script: Generating a new certificate.

Now that these operations have been performed, the S/MIME setup must be completed in OTRS.

This part of the setup is carried out in the Admin page, choosing the link "SMIME". In case the general S/MIME support in OTRS has not yet been enabled, the mask points this out to the administrator and provides an appropriate link for enabling it.

With the SysConfig group "Crypt::SMIME", you can also enable and configure the general S/MIME support.

Here you can activate S/MIME support, and define the paths for the OpenSSL command and the directory for the certificates. The key file created above must be stored in the directory indicated here. Otherwise OpenSSL cannot use it.

The next step is performed in the S/MIME configuration on the OTRS Admin page. Here, you can import the private key(s) of the OTRS system and the public keys of other communication partners. Enter the public key that has been created in the beginning of this section and added to OTRS.

Obviously, all public S/MIME keys of communication partners can be imported using the customer administration tool as well.

5. Using external backends

5.1. Customer data

OTRS works with many customer data attributes such as username, email address, phone number, etc. These attributes are displayed in both the Agent and the Customer frontends, and also used for the authentication of customers.

Customer data used or displayed within OTRS is highly customizable. The following information is however always needed for customer authentication:

- User login
- Email address
- Customer ID

Use the following SysConfig parameters if you want to display customer information in your agent interface.

```
# Ticket::Frontend::CustomerInfo*
# (show customer info on Compose (Phone and Email), Zoom and
# Queue view)
$self->{'Ticket::Frontend::CustomerInfoCompose'} = 1;
$self->{'Ticket::Frontend::CustomerInfoZoom'} = 1;
```

Script: SysConfig configuration parameters.

5.2. Customer user backend

You can use two types of customer backends, DB and LDAP. If you already have another customer backend (e.g. SAP), it is of course possible to write a module that uses it.

5.2.1. Database (Default)

Example 11-1 shows the configuration of a DB customer backend, which uses customer data stored in the OTRS database.

Example 4.6. Configuring a DB customer backend

```
# CustomerUser (customer database backend and settings)
$self->{CustomerUser} = {
  Name => 'Database Datasource',
  Module => 'Kernel::System::CustomerUser::DB',
  Params => {
    # if you want to use an external database, add the required settings
    # DSN => 'DBI:odbc:yourdsn',
    # Type => 'mssql', # only for ODBC connections
    # DSN => 'DBI:mysql:database=customerdb;host=customerdbhost',
    # User => '',
    # Password => '',
    # Table => 'customer_user',
    # if your frontend is unicode and the charset of your
    # customer database server is iso-8859-1, use these options.
    # SourceCharset => 'iso-8859-1',
    # DestCharset => 'utf-8',

    # CaseSensitive will control if the SQL statements need LOWER()
    # function calls to work case insensitively. Setting this to
    # 1 will improve performance dramatically on large databases.
    CaseSensitive => 0,
  },
  # customer unique id
  CustomerKey => 'login',

  # customer #
  CustomerID => 'customer_id',
  CustomerValid => 'valid_id',
  CustomerUserListFields => ['first_name', 'last_name', 'email'],
  CustomerUserSearchFields => ['login', 'last_name', 'customer_id'],
  CustomerUserSearchPrefix => '',
  CustomerUserSearchSuffix => '*',
  CustomerUserSearchListLimit => 250,
  CustomerUserPostMasterSearchFields => ['email'],
  CustomerUserNameFields => ['title', 'first_name', 'last_name'],
  CustomerUserEmailUniqCheck => 1,
  # # show not own tickets in customer panel, CompanyTickets
  # CustomerUserExcludePrimaryCustomerID => 0,
  # # generate auto logins
  # AutoLoginCreation => 0,
  # AutoLoginCreationPrefix => 'auto',
  # # admin can change customer preferences
  # AdminSetPreferences => 1,
  # # cache time to live in sec. - cache any database queries
  # CacheTTL => 0,
  # # just a read only source
  # ReadOnly => 1,
```

```

Map => [
  # note: Login, Email and CustomerID needed!
  # var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-
link, readonly, http-link-target
  [ 'UserTitle',      'Title',      'title',      1, 0, 'var', '', 0 ],
  [ 'UserFirstname', 'Firstname', 'first_name', 1, 1, 'var', '', 0 ],
  [ 'UserLastname',  'Lastname',  'last_name',  1, 1, 'var', '', 0 ],
  [ 'UserLogin',     'Username',  'login',     1, 1, 'var', '', 0 ],
  [ 'UserPassword',  'Password',  'pw',        0, 0, 'var', '', 0 ],
  [ 'UserEmail',     'Email',     'email',     1, 1, 'var', '', 0 ],

#      [ 'UserEmail',      'Email', 'email',          1, 1, 'var', '$Env{"CGIHandle"}?
Action=AgentTicketCompose&ResponseID=1&TicketID=$Data{"TicketID"}&ArticleID=
$Data{"ArticleID"}', 0 ],
  [ 'UserCustomerID', 'CustomerID', 'customer_id', 0, 1, 'var', '', 0 ],

#      [ 'UserCustomerIDs', 'CustomerIDs', 'customer_ids', 1, 0, 'var', '', 0 ],
  [ 'UserPhone',      'Phone',      'phone',      1, 0, 'var', '', 0 ],
  [ 'UserFax',        'Fax',        'fax',        1, 0, 'var', '', 0 ],
  [ 'UserMobile',     'Mobile',     'mobile',     1, 0, 'var', '', 0 ],
  [ 'UserStreet',     'Street',     'street',     1, 0, 'var', '', 0 ],
  [ 'UserZip',        'Zip',        'zip',        1, 0, 'var', '', 0 ],
  [ 'UserCity',       'City',       'city',       1, 0, 'var', '', 0 ],
  [ 'UserCountry',    'Country',    'country',    1, 0, 'var', '', 0 ],
  [ 'UserComment',    'Comment',    'comments',   1, 0, 'var', '', 0 ],
  [ 'ValidID',        'Valid',      'valid_id',   0, 1, 'int', '', 0 ],
],
# default selections
Selections => {
  UserTitle => {
    'Mr.' => 'Mr.',
    'Mrs.' => 'Mrs.',
  },
},
};

```

If you want to customize the customer data, change the column headers or add new ones to the `customer_user` table in the OTRS database. As an example, the script below shows how to add a new field for room number.

```

linux:~# mysql -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 116 to server version: 5.0.18-Debian_7-log

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> use otrs;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> ALTER TABLE customer_user ADD room VARCHAR (250);
Query OK, 1 rows affected (0.01 sec)
Records: 1 Duplicates: 0 Warnings: 0

mysql> quit
Bye
linux:~#

```

Script: Adding a room field to the customer_user table.

Now add the new column to the MAP array in `Kernel/Config.pm`, as shown in the following script.

```

# var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-link,
readonly
[... ]
[ 'UserRoom',      'Room',      'room',      0, 1, 'var', '', 0 ],

```

Script: Adding a room field to the Kernel/Config.pm file.

It is also possible to edit all of this customer information via the Customers link in the Agent interface.

5.2.1.1. Customer with multiple IDs (Company tickets)

It is possible to assign more than one customer ID to a customer. This can be useful if a customer must access tickets of other customers, e.g. a supervisor wants to watch the tickets of his assistants. If a customer can access the tickets of another customer, the company ticket feature of OTRS is used. Company tickets can be accessed via the "Company Tickets" link in the customer panel.

To use company tickets, a new column with the IDs that should be accessible for a customer, has to be added to the customer_user table in the OTRS database (see Script below).

```
linux:~# mysql -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 124 to server version: 5.0.18-Debian_7-log

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> use otrs;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> ALTER TABLE customer_user ADD customer_ids VARCHAR (250);
Query OK, 1 rows affected (0.02 sec)
Records: 1 Duplicates: 0 Warnings: 0

mysql> quit
Bye
linux:~#
```

Script: Adding a customer_ids field to the customer_user table.

Now the new column has to be added to the MAP array in Kernel/Config.pm, as shown in the script below.

```
# var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-link,
readonly
[...]
[ 'UserCustomerIDs', 'CustomerIDs', 'customer_ids', 1, 0, 'var', '', 0 ],
```

Script: Adding a UserCustomerIDs field to the Kernel/Config.pm file.

Now, the new column for the multiple customer IDs can be edited via the Agent interface, in the section for the customer management.

To ensure that one customer can access the tickets of other customers, add the IDs of these other users into the new field for the multiple customer IDs. Each ID has to be separated by a semicolon (see Example 11-2 below).

Example 4.7. Using company tickets with a DB backend

The customers A, B and C exist in your system, and A wants to have access to the tickets of B and C via the customer panel. B and C should have no access to the tickets of other users.

To realize this setup, change the customer_user table and the mapping in Kernel/Config.pm as described above. Then load the settings for customer A via the Customers link

in the Agent interface or via the Admin page. If the settings are displayed, add into the field for CustomerIDs the values "B;C;".

5.2.2. LDAP

If you have a LDAP directory with your customer data, you can use it as the customer backend with OTRS, as shown in Example 11-3.

Example 4.8. Configuring an LDAP customer backend

```
# CustomerUser
# (customer ldap backend and settings)
$self->{CustomerUser} = {
  Name => 'LDAP Data Source',
  Module => 'Kernel::System::CustomerUser::LDAP',
  Params => {
    # ldap host
    Host => 'bay.csuhayward.edu',
    # ldap base dn
    BaseDN => 'ou=seas,o=csuh',
    # search scope (one|sub)
    SSCOPE => 'sub',
    # The following is valid but would only be necessary if the
    # anonymous user does NOT have permission to read from the LDAP tree
    UserDN => '',
    UserPw => '',
    # in case you want to add always one filter to each ldap query, use
    # this option. e. g. AlwaysFilter => '(mail=*)' or AlwaysFilter =>
    '(objectclass=user)'
    AlwaysFilter => '',
    # if both your frontend and your LDAP are unicode, use this:
    SourceCharset => 'utf-8',
    DestCharset => 'utf-8',
    # if your frontend is unicode and the charset of your
    # ldap server is iso-8859-1, use these options.
    # SourceCharset => 'iso-8859-1',
    # DestCharset => 'utf-8',
    # Net::LDAP new params (if needed - for more info see perldoc Net::LDAP)
    Params => {
      port => 389,
      timeout => 120,
      async => 0,
      version => 3,
    },
  },
},
# customer unique id
CustomerKey => 'uid',
# customer #
CustomerID => 'mail',
CustomerUserListFields => ['cn', 'mail'],
CustomerUserSearchFields => ['uid', 'cn', 'mail'],
CustomerUserSearchPrefix => '',
CustomerUserSearchSuffix => '*',
CustomerUserSearchListLimit => 250,
CustomerUserPostMasterSearchFields => ['mail'],
CustomerUserNameFields => ['givenname', 'sn'],
# show not own tickets in customer panel, CompanyTickets
CustomerUserExcludePrimaryCustomerID => 0,
# add an ldap filter for valid users (expert setting)
# CustomerUserValidFilter => '(!description=locked)',
# administrator can't change customer preferences
AdminSetPreferences => 0,
# cache time to live in sec. - cache any database queries
# CacheTTL => 0,
# Map => [
  # note: Login, Email and CustomerID are mandatory!
  # var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-
  link, readonly
  [ 'UserTitle',      'Title',      'title',          1, 0, 'var', '', 0 ],
```

```

    [ 'UserFirstname', 'Firstname', 'givenname',      1, 1, 'var', '', 0 ],
    [ 'UserLastname', 'Lastname', 'sn',             1, 1, 'var', '', 0 ],
    [ 'UserLogin',    'Username', 'uid',            1, 1, 'var', '', 0 ],
    [ 'UserEmail',    'Email',     'mail',         1, 1, 'var', '', 0 ],
    [ 'UserCustomerID', 'CustomerID', 'mail',       0, 1, 'var', '', 0 ],
#   [ 'UserCustomerIDs', 'CustomerIDs', 'second_customer_ids', 1, 0, 'var', '', 0 ],
    [ 'UserPhone',    'Phone',     'telephonenumber', 1, 0, 'var', '', 0 ],
    [ 'UserAddress',  'Address',    'postaladdress', 1, 0, 'var', '', 0 ],
    [ 'UserComment',  'Comment',    'description',   1, 0, 'var', '', 0 ],
  ],
};

```

If additional customer attributes are stored in your LDAP directory, such as a manager's name, a mobile phone number, or a department, and if you want to display this information in OTRS, just expand the MAP array in Kernel/Config.pm with the entries for these attributes, as shown in the following script.

```

# var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-link,
readonly
[... ]
[ 'UserPhone',      'Phone',      'telephonenumber', 1, 0, 'var', '', 0 ],

```

Script: Adding new fields to the Kernel/Config.pm file.

5.2.2.1. Customer with multiple IDs (Company tickets)

It is possible to assign more than one Customer ID to a customer, when using an LDAP backend. To use company tickets, a new field has to be added to the LDAP directory that contains the IDs accessible by the customer.

If the new field in the LDAP directory has been created, the new entry has to be added to the MAP array in Kernel/Config.pm, as shown in the script below.

```

# var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-link,
readonly
[... ]
[ 'UserCustomerIDs', 'CustomerIDs', 'customer_ids', 1, 0, 'var', '', 0 ],

```

Script: Mapping new fields to the Kernel/Config.pm file.

The field for the multiple customer IDs has to be edited directly in the LDAP directory. OTRS can only read from LDAP, not write to it.

To ensure access by a customer to the tickets of other customers, add the customer IDs of the customers whose tickets should be accessed to the new field in your LDAP directory. Each ID has to be separated by a semicolon (see Example 11-4 below).

Example 4.9. Using Company tickets with an LDAP backend

The customers A, B and C exist in your system and A wants to have access to the tickets of B and C via the customer panel. B and C should have no access to tickets of other users.

To realize this setup, change the LDAP directory and the mapping in Kernel/Config.pm as described above. Then add into the field for CustomerIDs the values "B;C;" for customer A in your LDAP directory.

5.2.3. Using more than one customer backend with OTRS

If you want to utilize more than one customer data source used with OTRS (e.g. an LDAP and a database backend), the CustomerUser config parameter should be expanded with a number, e.g. "CustomerUser1", "CustomerUser2" (see Example 11-5 below).

Example 4.10. Using more than one customer backend with OTRS

The following configuration example shows usage of both an LDAP and a database customer backend with OTRS.

```
# 1. Customer user backend: DB
# (customer database backend and settings)
$Self->{CustomerUser1} = {
  Name => 'Customer Database',
  Module => 'Kernel::System::CustomerUser::DB',
  Params => {
    # if you want to use an external database, add the
    # required settings
    DSN => 'DBI:odbc:yourdsn',
    Type => 'mssql', # only for ODBC connections
    DSN => 'DBI:mysql:database=customerdb;host=customerdbhost',
    User => '',
    Password => '',
    Table => 'customer_user',
  },
  # customer unique id
  CustomerKey => 'login',
  # customer #
  CustomerID => 'customer_id',
  CustomerValid => 'valid_id',
  CustomerUserListFields => ['first_name', 'last_name', 'email'],
  CustomerUserSearchFields => ['login', 'last_name', 'customer_id'],
  CustomerUserSearchPrefix => '',
  CustomerUserSearchSuffix => '*',
  CustomerUserSearchListLimit => 250,
  CustomerUserPostMasterSearchFields => ['email'],
  CustomerUserNameFields => ['title', 'first_name', 'last_name'],
  CustomerUserEmailUniqCheck => 1,
  # show not own tickets in customer panel, CompanyTickets
  CustomerUserExcludePrimaryCustomerID => 0,
  # generate auto logins
  AutoLoginCreation => 0,
  AutoLoginCreationPrefix => 'auto',
  # admin can change customer preferences
  AdminSetPreferences => 1,
  # cache time to live in sec. - cache any database queries
  CacheTTL => 0,
  # just a read only source
  ReadOnly => 1,
  Map => [

    # note: Login, Email and CustomerID needed!
    # var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-
link, readonly, http-link-target
    [ 'UserTitle',      'Title',      'title',      1, 0, 'var', '', 0 ],
    [ 'UserFirstname', 'Firstname',  'first_name', 1, 1, 'var', '', 0 ],
    [ 'UserLastname',  'Lastname',  'last_name',  1, 1, 'var', '', 0 ],
    [ 'UserLogin',     'Username',  'login',      1, 1, 'var', '', 0 ],
    [ 'UserPassword',  'Password',  'pw',         0, 0, 'var', '', 0 ],
    [ 'UserEmail',     'Email',     'email',      1, 1, 'var', '', 0 ],
    [ 'UserCustomerID', 'CustomerID', 'customer_id', 0, 1, 'var', '', 0 ],
    [ 'UserPhone',     'Phone',     'phone',      1, 0, 'var', '', 0 ],
    [ 'UserFax',       'Fax',       'fax',        1, 0, 'var', '', 0 ],
    [ 'UserMobile',    'Mobile',    'mobile',     1, 0, 'var', '', 0 ],
    [ 'UserStreet',    'Street',    'street',     1, 0, 'var', '', 0 ],
    [ 'UserZip',       'Zip',       'zip',        1, 0, 'var', '', 0 ],
    [ 'UserCity',      'City',      'city',       1, 0, 'var', '', 0 ],
    [ 'UserCountry',   'Country',   'country',    1, 0, 'var', '', 0 ],
    [ 'UserComment',   'Comment',   'comments',   1, 0, 'var', '', 0 ],
    [ 'ValidID',       'Valid',     'valid_id',   0, 1, 'int', '', 0 ],
  ],
  # default selections
  Selections => {
    UserTitle => {
      'Mr.' => 'Mr.',

```

```

    'Mrs.' => 'Mrs.',
  },
},
};

# 2. Customer user backend: LDAP
# (customer ldap backend and settings)
$self->{CustomerUser2} = {
  Name => 'LDAP Datasource',
  Module => 'Kernel::System::CustomerUser::LDAP',
  Params => {
    # ldap host
    Host => 'bay.csuhayward.edu',
    # ldap base dn
    BaseDN => 'ou=seas,o=csuh',
    # search scope (one|sub)
    SSCOPE => 'sub',
    # The following is valid but would only be necessary if the
    # anonymous user does NOT have permission to read from the LDAP tree
    UserDN => '',
    UserPw => '',
    # in case you want to add always one filter to each ldap query, use
    # this option. e. g. AlwaysFilter => '(mail=*)' or AlwaysFilter =>
    '(objectclass=user)'
    AlwaysFilter => '',
    # if both your frontend and your LDAP are unicode, use this:
    SourceCharset => 'utf-8',
    DestCharset => 'utf-8',
    # if your frontend is e. g. iso-8859-1 and the character set of your
    # ldap server is utf-8, use these options:
    SourceCharset => 'utf-8',
    DestCharset => 'iso-8859-1',

    # Net::LDAP new params (if needed - for more info see perldoc Net::LDAP)
    Params => {
      port => 389,
      timeout => 120,
      async => 0,
      version => 3,
    },
  },
},
# customer unique id
CustomerKey => 'uid',
# customer #
CustomerID => 'mail',
CustomerUserListFields => ['cn', 'mail'],
CustomerUserSearchFields => ['uid', 'cn', 'mail'],
CustomerUserSearchPrefix => '',
CustomerUserSearchSuffix => '*',
CustomerUserSearchListLimit => 250,
CustomerUserPostMasterSearchFields => ['mail'],
CustomerUserNameFields => ['givenname', 'sn'],
# show not own tickets in customer panel, CompanyTickets
CustomerUserExcludePrimaryCustomerID => 0,
# add a ldap filter for valid users (expert setting)
CustomerUserValidFilter => '(!(description=locked))',
# admin can't change customer preferences
AdminSetPreferences => 0,
Map => [
  # note: Login, Email and CustomerID needed!
  # var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-
  link, readonly
  [ 'UserTitle',      'Title',      'title',          1, 0, 'var', '', 0 ],
  [ 'UserFirstname', 'Firstname',  'givenname',     1, 1, 'var', '', 0 ],
  [ 'UserLastname',  'Lastname',  'sn',            1, 1, 'var', '', 0 ],
  [ 'UserLogin',     'Username',  'uid',           1, 1, 'var', '', 0 ],
  [ 'UserEmail',     'Email',    'mail',          1, 1, 'var', '', 0 ],
  [ 'UserCustomerID', 'CustomerID', 'mail',          0, 1, 'var', '', 0 ],
#   [ 'UserCustomerIDs', 'CustomerIDs', 'second_customer_ids', 1, 0, 'var', '', 0 ],
  [ 'UserPhone',     'Phone',    'telephonenumber', 1, 0, 'var', '', 0 ],
  [ 'UserAddress',   'Address',  'postaladdress',  1, 0, 'var', '', 0 ],
  [ 'UserComment',   'Comment',  'description',    1, 0, 'var', '', 0 ],

```

```
],  
};
```

It is possible to integrate up to 10 different customer backends. Use the customer management interface in OTRS to view or edit (assuming write access is enabled) all customer data.

5.2.4. Storing CustomerUser data in dynamic fields

Sometimes it can be useful to also store CustomerUser data directly in dynamic fields of a ticket, for example to create special statistics on this data.

The dynamic field values are set when a ticket is created or when the customer of a ticket is changed. The values of the dynamic fields are taken from the customer data. This works for all backends, but is especially useful for LDAP-backends.

To activate this optional feature of OTRS, please activate the settings "Ticket::EventModulePost###930-DynamicFieldFromCustomerUser" and "DynamicFieldFromCustomerUser::Mapping". The latter setting contains the configuration of which CustomerUser field entry should be stored in which ticket dynamic field. The fields must be present in the system and should be enabled for AgentTicketFreeText, so that they can be set manually. They mustn't be enabled for AgentTicketPhone, AgentTicketEmail and AgentTicketCustomer. If they were, they would have precedence over the automatically set values.

5.3. Backends to authenticate Agents and Customers

OTRS offers the option to authenticate agents and customers against different backends.

5.3.1. Authentication backends for Agents

5.3.1.1. DB (Default)

The backend to authenticate agents which is used by default is the OTRS database. Agents can be added and edited via the agent management interface in the Admin page (see Example 11-6 below).

Example 4.11. Authenticate agents against a DB backend

```
$Self->{'AuthModule'} = 'Kernel::System::Auth::DB';
```

5.3.1.2. LDAP

If an LDAP directory has all your agent data stored, you can use the LDAP module to authenticate your users in OTRS (see Example 11-7 below). This module has only read access to the LDAP tree, which means that you cannot edit your user data via the agent management interface.

Example 4.12. Authenticate agents against an LDAP backend

```
# This is an example configuration for an LDAP auth. backend.  
# (Make sure Net::LDAP is installed!)  
$Self->{'AuthModule'} = 'Kernel::System::Auth::LDAP';  
$Self->{'AuthModule::LDAP::Host'} = 'ldap.example.com';  
$Self->{'AuthModule::LDAP::BaseDN'} = 'dc=example,dc=com';
```

```

$Self->{'AuthModule::LDAP::UID'} = 'uid';

# Check if the user is allowed to auth in a posixGroup
# (e. g. user needs to be in a group xyz to use otrs)
$Self->{'AuthModule::LDAP::GroupDN'} = 'cn=otrsallow,ou=posixGroups,dc=example,dc=com';
$Self->{'AuthModule::LDAP::AccessAttr'} = 'memberUid';
# for ldap posixGroups objectclass (just uid)
# $Self->{'AuthModule::LDAP::UserAttr'} = 'UID';
# for non ldap posixGroups objectclass (with full user dn)
# $Self->{'AuthModule::LDAP::UserAttr'} = 'DN';

# The following is valid but would only be necessary if the
# anonymous user do NOT have permission to read from the LDAP tree
$Self->{'AuthModule::LDAP::SearchUserDN'} = '';
$Self->{'AuthModule::LDAP::SearchUserPw'} = '';

# in case you want to add always one filter to each ldap query, use
# this option. e. g. AlwaysFilter => '(mail=*)' or AlwaysFilter => '(objectclass=user)'
$Self->{'AuthModule::LDAP::AlwaysFilter'} = '';

# in case you want to add a suffix to each login name, then
# you can use this option. e. g. user just want to use user but
# in your ldap directory exists user@domain.
# $Self->{'AuthModule::LDAP::UserSuffix'} = '@domain.com';

# Net::LDAP new params (if needed - for more info see perldoc Net::LDAP)
$Self->{'AuthModule::LDAP::Params'} = {
    port => 389,
    timeout => 120,
    async => 0,
    version => 3,
};

```

The configuration parameters shown in the script below can be used to synchronize the user data from your LDAP directory into your local OTRS database. This reduces the number of requests to your LDAP server and speeds up the authentication with OTRS. The data synchronization is done when the agent authenticates the first time. Although the data can be synchronized into the local OTRS database, the LDAP directory is the last instance for the authentication, so an inactive user in the LDAP tree can't authenticate to OTRS, even when the account data is already stored in the OTRS database. The agent data in the LDAP directory can't be edited via the web interface of OTRS, so the data has to be managed directly in the LDAP tree.

```

# defines AuthSyncBackend (AuthSyncModule) for AuthModule
# if this key exists and is empty, there won't be a sync.
# example values: AuthSyncBackend, AuthSyncBackend2
$Self->{'AuthModule::UseSyncBackend'} = 'AuthSyncBackend';

# agent data sync against ldap
$Self->{'AuthSyncModule'} = 'Kernel::System::Auth::Sync::LDAP';
$Self->{'AuthSyncModule::LDAP::Host'} = 'ldap://ldap.example.com/';
$Self->{'AuthSyncModule::LDAP::BaseDN'} = 'dc=otrs, dc=org';
$Self->{'AuthSyncModule::LDAP::UID'} = 'uid';
$Self->{'AuthSyncModule::LDAP::SearchUserDN'} = 'uid=sys, ou=user, dc=otrs, dc=org';
$Self->{'AuthSyncModule::LDAP::SearchUserPw'} = 'some_pass';
$Self->{'AuthSyncModule::LDAP::UserSyncMap'} = {
    # DB -> LDAP
    UserFirstname => 'givenName',
    UserLastname  => 'sn',
    UserEmail     => 'mail',
};
[...];

# AuthSyncModule::LDAP::UserSyncInitialGroups
# (sync following group with rw permission after initial create of first agent
# login)
$Self->{'AuthSyncModule::LDAP::UserSyncInitialGroups'} = [
    'users',
];

```

Script: Synchronizing the user data from the LDAP directory into the OTRS database.

5.3.1.3. HTTPBasicAuth for Agents

If you want to implement a "single sign on" solution for all your agents, you can use HTTP basic authentication (for all your systems) and the HTTPBasicAuth module for OTRS (see Example 11-8 below).

Example 4.13. Authenticate Agents using HTTPBasic

```
# This is an example configuration for an apache ($ENV{REMOTE_USER})
# auth. backend. Use it if you want to have a single login through
# apache http-basic-auth
$self->{'AuthModule'} = 'Kernel::System::Auth::HTTPBasicAuth';

# Note:
#
# If you use this module, you should use as fallback
# the following configuration settings if the user is not authorized
# apache ($ENV{REMOTE_USER})
$self->{'LoginURL'} = 'http://host.example.com/not-authorized-for-otrs.html';
$self->{'LogoutURL'} = 'http://host.example.com/thanks-for-using-otrs.html';
```

5.3.1.4. Radius

The configuration parameters shown in Example 11-9 can be used to authenticate agents against a Radius server.

Example 4.14. Authenticate Agents against a Radius backend

```
# This is example configuration to auth. agents against a radius server
$self->{'AuthModule'} = 'Kernel::System::Auth::Radius';
$self->{'AuthModule::Radius::Host'} = 'radiushost';
$self->{'AuthModule::Radius::Password'} = 'radiussecret';
```

5.3.2. Authentication backends for Customers

5.3.2.1. Database (Default)

The default user authentication backend for customers in OTRS is the OTRS database. With this backend, all customer data can be edited via the web interface of OTRS (see Example 11-10 below).

Example 4.15. Customer user authentication against a DB backend

```
# This is the auth. module against the otrs db
$self->{'Customer::AuthModule'} = 'Kernel::System::CustomerAuth::DB';
$self->{'Customer::AuthModule::DB::Table'} = 'customer_user';
$self->{'Customer::AuthModule::DB::CustomerKey'} = 'login';
$self->{'Customer::AuthModule::DB::CustomerPassword'} = 'pw';
#$self->{'Customer::AuthModule::DB::DSN'} =
  "DBI:mysql:database=customerdb;host=customerdbhost";
#$self->{'Customer::AuthModule::DB::User'} = "some_user";
#$self->{'Customer::AuthModule::DB::Password'} = "some_password";
```

5.3.2.2. LDAP

If you have an LDAP directory with all your customer data, you can use the LDAP module to authenticate your customers to OTRS (see Example 11-11 below). Because this module has only read-access to the LDAP backend, it is not possible to edit the customer data via the OTRS web interface.

Example 4.16. Customer user authentication against an LDAP backend

```
# This is an example configuration for an LDAP auth. backend.
# (make sure Net::LDAP is installed!)
$self->{'Customer::AuthModule'} = 'Kernel::System::CustomerAuth::LDAP';
$self->{'Customer::AuthModule::LDAP::Host'} = 'ldap.example.com';
$self->{'Customer::AuthModule::LDAP::BaseDN'} = 'dc=example,dc=com';
$self->{'Customer::AuthModule::LDAP::UID'} = 'uid';

# Check if the user is allowed to auth in a posixGroup
# (e. g. user needs to be in a group xyz to use otrs)
$self->{'Customer::AuthModule::LDAP::GroupDN'} =
  'cn=otrsallow,ou=posixGroups,dc=example,dc=com';
$self->{'Customer::AuthModule::LDAP::AccessAttr'} = 'memberUid';
# for ldap posixGroups objectclass (just uid)
$self->{'Customer::AuthModule::LDAP::UserAttr'} = 'UID';
# for non ldap posixGroups objectclass (full user dn)
# $self->{'Customer::AuthModule::LDAP::UserAttr'} = 'DN';

# The following is valid but would only be necessary if the
# anonymous user does NOT have permission to read from the LDAP tree
$self->{'Customer::AuthModule::LDAP::SearchUserDN'} = '';
$self->{'Customer::AuthModule::LDAP::SearchUserPw'} = '';

# in case you want to add always one filter to each ldap query, use
# this option. e. g. AlwaysFilter => '(mail=*)' or AlwaysFilter => '(objectclass=user)'
$self->{'Customer::AuthModule::LDAP::AlwaysFilter'} = '';

# in case you want to add a suffix to each customer login name, then
# you can use this option. e. g. user just want to use user but
# in your ldap directory exists user@domain.
# $self->{'Customer::AuthModule::LDAP::UserSuffix'} = '@domain.com';

# Net::LDAP new params (if needed - for more info see perldoc Net::LDAP)
$self->{'Customer::AuthModule::LDAP::Params'} = {
  port => 389,
  timeout => 120,
  async => 0,
  version => 3,
};
```

5.3.2.3. HTTPBasicAuth for customers

If you want to implement a "single sign on" solution for all your customer users, you can use HTTPBasic authentication (for all your systems) and use the HTTPBasicAuth module with OTRS (no login is needed with OTRS any more). See Example 11-12 below.

Example 4.17. Customer user authentication with HTTPBasic

```
# This is an example configuration for an apache ($ENV{REMOTE_USER})
# auth. backend. Use it if you want to have a single login through
# apache http-basic-auth
$self->{'Customer::AuthModule'} = 'Kernel::System::CustomerAuth::HTTPBasicAuth';

# Note:
# If you use this module, you should use the following
# config settings as fallback, if user isn't login through
# apache ($ENV{REMOTE_USER})
$self->{'CustomerPanelLoginURL'} = 'http://host.example.com/not-authorized-for-otrs.html';
$self->{'CustomerPanelLogoutURL'} = 'http://host.example.com/thanks-for-using-otrs.html';
```

5.3.2.4. Radius

The settings shown in Example 11-13 can be used to authenticate your customers against a Radius server.

Example 4.18. Customer user authentication against a Radius backend

```
# This is a example configuration to auth. customer against a radius server
$self->{'Customer::AuthModule'} = 'Kernel::System::Auth::Radius';
$self->{'Customer::AuthModule::Radius::Host'} = 'radiushost';
$self->{'Customer::AuthModule::Radius::Password'} = 'radiussecret';
```

5.4. Customizing the customer self-registration

It is possible to customize the self-registration for new customers, accessible via the customer.pl panel. New optional or required fields, like room number, address or state can be added.

The following example shows how you can specify a required field in the customer database, in this case to store the room number of a customer.

5.4.1. Customizing the web interface

To display the new field for the room number in the customer.pl web interface, the .dtl file responsible for the layout in this interface has to be modified. Edit the Kernel/Output/HTML/Standard/CustomerLogin.dtl file, adding the new field around line 80 (see Script below).

```
[...]
<div class="NewLine">
  <label for="Room">$Text{"Room{CustomerUser}"}</label>
  <input title="$Text{"Room Number"}" name="Room" type="text" id="UserRoom"
  maxlength="50" />
</div>
[...]
```

Script: Displaying a new field in the web interface.

5.4.2. Customer mapping

In the next step, the customer mapping has to be expanded with the new entry for the room number. To ensure that the changes are not lost after an update, put the "CustomerUser" settings from the Kernel/Config/Defaults.pm into the Kernel/Config.pm. Now change the MAP array and add the new room number field, as shown in the script below.

```
# CustomerUser
# (customer database backend and settings)
$self->{CustomerUser} = {
  Name => 'Database Backend',
  Module => 'Kernel::System::CustomerUser::DB',
  Params => {
    # if you want to use an external database, add the
    # required settings
    # DSN => 'DBI:odbc:yourdsn',
    # Type => 'mssql', # only for ODBC connections
    # DSN => 'DBI:mysql:database=customerdb;host=customerdbhost',
    # User => '',
    # Password => '',
    Table => 'customer_user',
  },
  # customer unique id
  CustomerKey => 'login',
  # customer #
```

```

CustomerID => 'customer_id',
CustomerValid => 'valid_id',
CustomerUserListFields => ['first_name', 'last_name', 'email'],
# CustomerUserListFields => ['login', 'first_name', 'last_name', 'customer_id', 'email'],
CustomerUserSearchFields => ['login', 'last_name', 'customer_id'],
CustomerUserSearchPrefix => '',
CustomerUserSearchSuffix => '*',
CustomerUserSearchListLimit => 250,
CustomerUserPostMasterSearchFields => ['email'],
CustomerUserNameFields => ['title', 'first_name', 'last_name'],
CustomerUserEmailUniqCheck => 1,
# # show not own tickets in customer panel, CompanyTickets
# CustomerUserExcludePrimaryCustomerID => 0,
# # generate auto logins
# AutoLoginCreation => 0,
# AutoLoginCreationPrefix => 'auto',
# # admin can change customer preferences
# AdminSetPreferences => 1,
# # cache time to live in sec. - cache database queries
# CacheTTL => 0,
# # just a read only source
# ReadOnly => 1,
Map => [

    # note: Login, Email and CustomerID needed!
    # var, frontend, storage, shown (1=always,2=lite), required, storage-type, http-
link, readonly, http-link-target
    [ 'UserTitle', 'Title', 'title', 1, 0, 'var', '', 0 ],
    [ 'UserFirstname', 'Firstname', 'first_name', 1, 1, 'var', '', 0 ],
    [ 'UserLastname', 'Lastname', 'last_name', 1, 1, 'var', '', 0 ],
    [ 'UserLogin', 'Username', 'login', 1, 1, 'var', '', 0 ],
    [ 'UserPassword', 'Password', 'pw', 0, 0, 'var', '', 0 ],
    [ 'UserEmail', 'Email', 'email', 1, 1, 'var', '', 0 ],
    [ 'UserCustomerID', 'CustomerID', 'customer_id', 0, 1, 'var', '', 0 ],
    [ 'UserPhone', 'Phone', 'phone', 1, 0, 'var', '', 0 ],
    [ 'UserFax', 'Fax', 'fax', 1, 0, 'var', '', 0 ],
    [ 'UserMobile', 'Mobile', 'mobile', 1, 0, 'var', '', 0 ],
    [ 'UserRoom', 'Room', 'room', 1, 0, 'var', '', 0 ],
    [ 'UserStreet', 'Street', 'street', 1, 0, 'var', '', 0 ],
    [ 'UserZip', 'Zip', 'zip', 1, 0, 'var', '', 0 ],
    [ 'UserCity', 'City', 'city', 1, 0, 'var', '', 0 ],
    [ 'UserCountry', 'Country', 'country', 1, 0, 'var', '', 0 ],
    [ 'UserComment', 'Comment', 'comments', 1, 0, 'var', '', 0 ],
    [ 'ValidID', 'Valid', 'valid_id', 0, 1, 'int', '', 0 ],
],
# default selections
Selections => {
    UserTitle => {
        'Mr.' => 'Mr.',
        'Mrs.' => 'Mrs.',
    },
},
};

```

Script: Changing the map array.

5.4.3. Customizing the customer_user table in the OTRS DB

The last step is to add the new room number column to the customer_user table in the OTRS database (see Script below). In this column, the entries for the room numbers will be stored.

```

linux:~# mysql -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 6 to server version: 5.0.18-Debian_7-log

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

```

```
mysql> use otrs;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> ALTER TABLE customer_user ADD room VARCHAR (200);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> quit
Bye
linux:~#
```

Script: Adding a new column to the customer_user table.

Now the new field for the room should be displayed in the Customer Information panel if filled, and in the Customer User administration screens. Also, new customers should have to insert their room number if they register a new account. If you use OTRS on Microsoft IIS, you should restart the web server to activate the changes made in Config.pm.

6. Ticket settings

6.1. Ticket States

6.1.1. Predefined states

OTRS allows you to change predefined ticket states and their types, or even add new ones. Two attributes are important for a state: the state name and the state type.

The default states of OTRS are: 'closed successful', 'closed unsuccessful', 'merged', 'new', 'open', 'pending auto close+', 'pending auto close-', 'pending reminder' and 'removed'.

6.1.1.1. New

Tickets are usually in this state when created from incoming e-mails.

6.1.1.2. Open

This is the default state for tickets assigned to queues and agents.

6.1.1.3. Pending reminder

After the pending time has expired, the ticket owner will receive a reminder email concerning the ticket. If the ticket is not locked, the reminder will be sent to all agents in the queue. Reminder tickets will only be sent out during business hours, and are repeatedly sent every 24 hours until the ticket state is changed by the agent. Time spent by the ticket in this status will still add towards the escalation time calculation.

6.1.1.4. Pending auto close-

Tickets in this status will be set to "Closed Unsuccessful" if the pending time has expired. Time spent by the ticket in this status will still add towards the escalation time calculation.

6.1.1.5. Pending auto close+

Tickets in this status will be set to "Closed Successful" if the pending time has expired. Time spent by the ticket in this status will still add towards the escalation time calculation.

6.1.1.6. Merged

This is the state for tickets that have been merged with other tickets.

6.1.1.7. Closed Successful

This is the end state for tickets that have been successfully resolved. Depending on your configuration, you may or may not be able to reopen closed tickets.

6.1.1.8. Closed Unsuccessful

This is the end state for tickets that have NOT been successfully resolved. Depending on your configuration, you may or may not be able to reopen closed tickets.

6.1.2. Customizing states

Every state has a name (state-name) and a type (state-type). Click on the States link on the Admin page and press the button "Add state" to create a new state. You can freely choose the name of a new state. The state types can not be changed via the web interface. The database has to be directly modified if you want to add new types or change existing names. The default state types should typically not be modified as this can yield unpredictable results. For instance, escalation calculations and the unlock feature are based on specific state types.

The name of an already existing state can be changed, or new states added through this screen. If the state "new" has been changed via the web interface, this change also has to be configured via the config file `Kernel/Config.pm` or via the SysConfig interface. The settings specified in the script below have to be modified to ensure that OTRS works with the changed state for "new".

```
[...]
# PostmasterDefaultState
# (The default state of new tickets.) [default: new]
$self->{PostmasterDefaultState} = 'new';

# CustomerDefaultState
# (default state of new customer tickets)
$self->{CustomerDefaultState} = 'new';
[...]
```

Script: Modifying the Kernel/Config.pm settings.

If a new state type should be added, the `ticket_state_type` table in the OTRS database needs to be modified with a database client program, as shown in the script below.

```
linux:~# mysql -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 23 to server version: 5.0.16-Debian_1-log

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> use otrs;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> insert into ticket_state_type (name,comments) values ('own','Own
state type');
Query OK, 1 row affected (0.00 sec)

mysql> quit
Bye
linux:~#
```

Script: Modifying the OTRS database.

Now it is possible to use the new state type you just created. After a state has been linked with this new state type, the OTRS configuration also has to be changed to ensure that the new state is usable. Just modify the following options via SysConfig:

Ticket -> Frontend::Agent::Ticket::ViewPhoneNew > AgentTicketPhone###StateDefault - to define the default next state for new phone tickets.

Ticket -> Frontend::Agent::Ticket::ViewPhoneNew > AgentTicketPhone###StateType - to define the available next states for new phone tickets.

Ticket -> Frontend::Agent::Ticket::ViewEmailNew > AgentTicketEmail###StateDefault - to define the default next state for new email tickets.

Ticket -> Frontend::Agent::Ticket::ViewEmailNew > AgentTicketEmail###StateType - to define the available next states for new email tickets.

Ticket -> Frontend::Agent::Ticket::ViewPhoneOutbound > AgentTicketPhoneOutbound###State - to define the default next state for new phone articles.

Ticket -> Frontend::Agent::Ticket::ViewPhoneOutbound > AgentTicketPhoneOutbound###StateType - to define the available next states for new phone articles.

Ticket -> Frontend::Agent::Ticket::ViewMove > AgentTicketMove###State - to define the default next state for moving a ticket.

Ticket -> Frontend::Agent::Ticket::ViewMove > AgentTicketMove###StateType - to define the available next states for moving a ticket.

Ticket -> Frontend::Agent::Ticket::ViewBounce > StateDefault - to define the default next state after bouncing a ticket.

Ticket -> Frontend::Agent::Ticket::ViewBounce > StateType - to define the available next states in the bounce screen.

Ticket -> Frontend::Agent::Ticket::ViewBulk > StateDefault - to define the default next state in a bulk action.

Ticket -> Frontend::Agent::Ticket::ViewBulk > StateType - to define the available next states in the bulk action screen.

Ticket -> Frontend::Agent::Ticket::ViewClose > StateDefault - to define the default next state after closing a ticket.

Ticket -> Frontend::Agent::Ticket::ViewClose > StateType - to define the available next states in the close screen.

Ticket -> Frontend::Agent::Ticket::ViewCompose > StateDefault - to define the default next state in the Compose (reply) screen.

Ticket -> Frontend::Agent::Ticket::ViewCompose > StateType - to define the available next states in the Compose (reply) screen.

Ticket -> Frontend::Agent::Ticket::ViewForward > StateDefault - to define the default next state after forwarding a ticket.

Ticket -> Frontend::Agent::Ticket::ViewForward > StateType - to define the available next states in the Forward screen.

Ticket -> Frontend::Agent::Ticket::ViewForward > StateDefault - to define the default next state of a ticket in the free text screen.

Ticket -> Frontend::Agent::Ticket::ViewForward > StateType - to define the available next states in the free text screen.

Ticket -> Core::PostMaster > PostmasterDefaultState - to define the state of tickets created from emails.

Ticket -> Core::PostMaster > PostmasterFollowUpState - to define the state of tickets after a follow-up has been received.

Ticket -> Core::PostMaster > PostmasterFollowUpStateClosed - to define the state of tickets after a follow-up has been received on an already closed ticket.

Ticket -> Core::Ticket > ViewableStateType - to define the state types that are displayed at various places in the system, for example in the Queueview.

Ticket -> Core::Ticket > UnlockStateType - to define the state types for unlocked tickets.

Ticket -> Core::Ticket > PendingReminderStateType - to define the state type for reminder tickets.

Ticket -> Core::Ticket > PendingAutoStateType - to define the state type for Pending Auto tickets.

Ticket -> Core::Ticket > StateAfterPending - to define the state a ticket is set to after the Pending Auto timer of the configured state has expired.

6.2. Ticket priorities

OTRS comes with five default priority levels that can be modified via the "Priorities" link on the Admin page. When creating a customized list of priorities, please keep in mind that they are sorted alphabetically in the priority selection box in the user interface. Also, OTRS orders tickets by internal database IDs in the QueueView.

Note

As with other OTRS entities, priorities may not be deleted, only deactivated by setting the Valid option to *invalid* or *invalid-temporarily*.

Important

If a new priority was added or if an existing one was changed, you might also want to modify some values in SysConfig:

- Ticket:Core::Postmaster::PostmasterDefaultPriority - defines the default priority for all incoming emails.
- Ticket:Frontend::Agent:Ticket::ViewPhoneNew:Priority - defines the default priority in the New Phone Ticket screen for agents.
- Ticket:Frontend::Agent:Ticket::ViewEmailNew:Priority - defines the default priority in the New Email Ticket screen for agents.
- Ticket:Frontend::Customer:Ticket::ViewNew:PriorityDefault - defines the default priority in the New Ticket screen in the Customer frontend.

6.3. Ticket Responsibility & Ticket Watching

From OTRS 2.1 on, it is possible to assign a person as being responsible for a ticket, in addition to its owner. Moreover, all activities connected with the ticket can be watched

by someone other than the ticket owner. These two functionalities are implemented with the TicketResponsible and TicketWatcher features, and facilitate the assignment of tasks and working within hierarchical team structures.

6.3.1. Ticket Responsibility

The ticket responsibility feature facilitates the complete processing of a ticket by an agent other than the ticket owner. Thus an agent who has locked a ticket can pass it on to another agent, who is not the ticket owner, in order for the second to respond to a customer request. After the request has been dealt with, the first agent can withdraw the ticket responsibility from the second agent.

With the configuration parameter Ticket::Responsible, the ticket responsibility feature can be activated. This will cause 3 new links to appear in the ticket activities menu of a zoomed ticket in the agent interface.

Ticket responsibility can be assigned by calling up the ticket content and clicking on the "Responsible" link in the ticket activities menu of a zoomed ticket in the agent interface (see the Figure below).

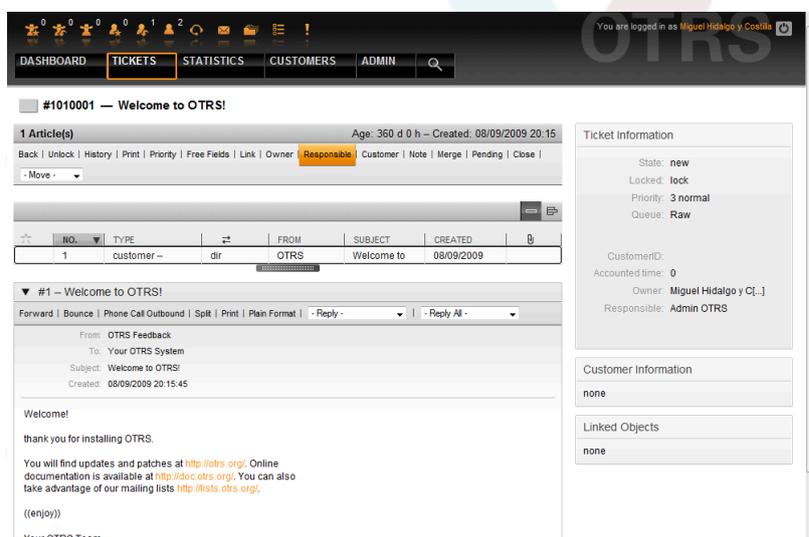


Figure: Changing the Responsibility of a ticket in its zoomed view.

After clicking on "Responsible", a pop-up dialog to change the responsibility of that ticket will open (see Figure below). This dialog can also be used to send a message to the new responsible agent.

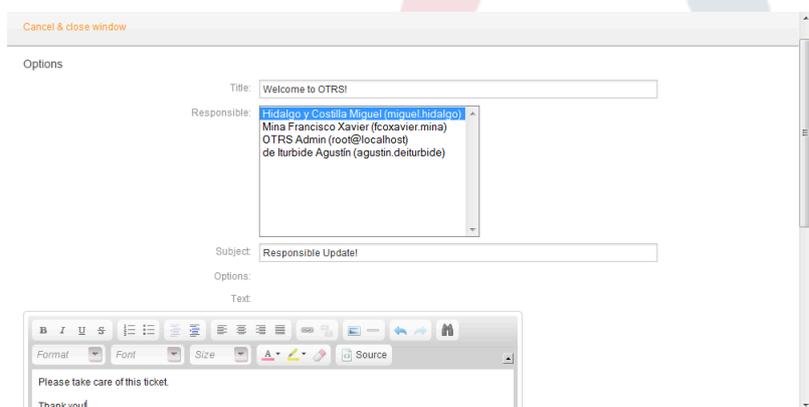


Figure: Pop-up dialog to change a ticket's responsibility.

The list of all tickets for which an agent is responsible, can be accessed through the Responsible view of the OTRS agent interface, as soon as the ticket responsibility feature gets activated.

6.3.2. Ticket watching

From OTRS 2.1 on, select agents such as supervisors can watch certain tickets within the system without processing them, by using the TicketWatcher feature.

The TicketWatcher feature can be activated with the configuration parameter `Ticket::Watcher` which adds new links to your actions toolbar. Using `Ticket::WatcherGroup`, one or more user groups with permission to watch tickets can also be defined.

In order to watch a ticket, go to its zoomed view and click on the "Subscribe" link in the ticket activities menu (see Figure below).

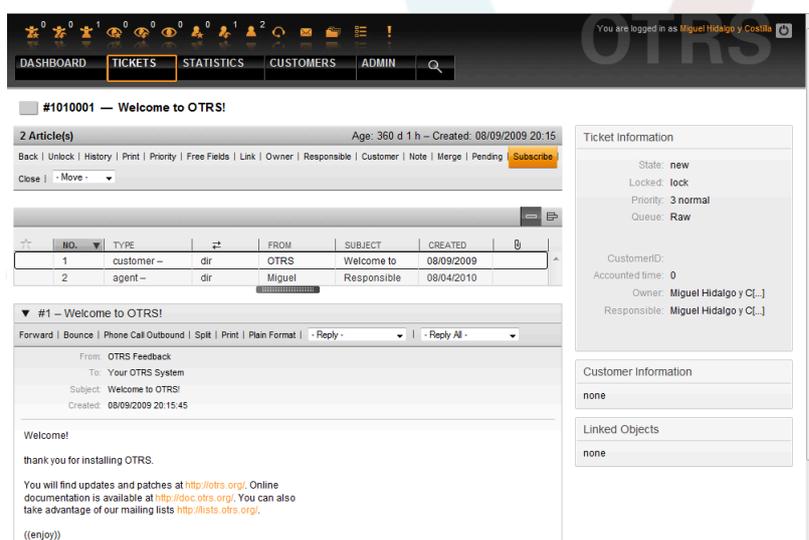


Figure: Subscribing to watching a ticket in its zoomed view.

If you no longer want to watch a specific ticket, go to its zoomed view and click on the "Unsubscribe" link in the ticket activities menu (see Figure below).

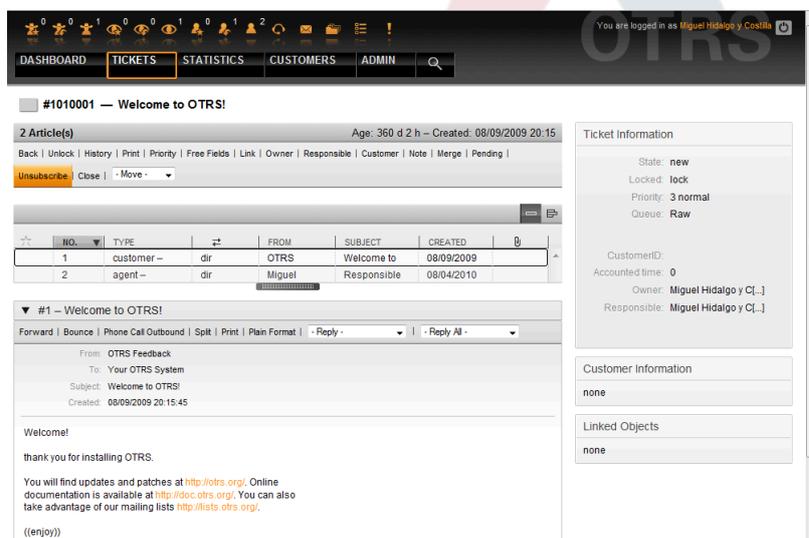


Figure: Unsubscribing from watching a ticket in its zoomed view.

The list of all watched tickets can be accessed through the Watched view of the OTRS agent interface (see Figure below), as soon as the ticket watcher feature gets activated.

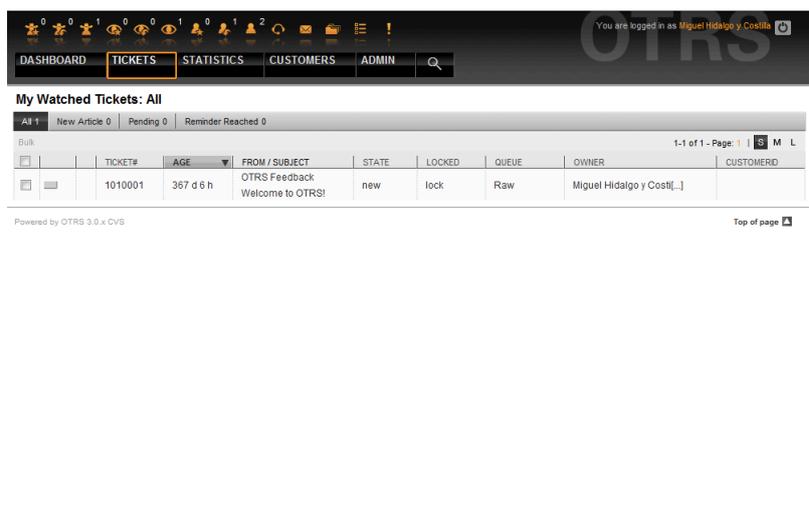


Figure: Watched tickets view.

7. Time related functions

7.1. Setting up business hours, holidays and time zones

Some functions in OTRS, like escalations and automatic unlocking of tickets, depend on a proper configuration of business hours, time zones and holidays. You can define these via the SysConfig interface, in Framework > Core::Time. You can also specify different sets of business hours, holidays and time zones as separate 'Calendars' in Framework > Core::Time::Calendar1 through Framework > Core::Time::Calendar9. Calendars can be defined by queue settings, or on SLA levels. This means that, for example, you can specify a calendar with 5 x 8 business hours for your 'standard' SLA, but create a separate calendar with 7 x 24 support for your 'gold' SLA; as well as set a calendar for your 'Support-USA' queue with a different time window than your 'Support-Japan' queue. OTRS can handle up to 99 different calendars.

7.1.1. Business Hours

Set up the working hours for your system in SysConfig Framework > Core::Time::Time-WorkingHours, or for your specific calendar in the calendar's configuration. OTRS can handle a granularity of one hour. Checking the marks in the boxes 8, 9, 10 ... 17 corresponds with business hours of 8 AM - 6 PM.

Only during business hours can tickets escalate, notifications for escalated and pending tickets be sent, and tickets be unlocked.

7.1.2. Fixed date holidays

Holidays that are on a fixed date every year, such as New Year's Day or the Fourth of July, can be specified in TimeVacationDays, or in the corresponding section for the calendars 1-9.

Tickets will not escalate nor get unlocked on dates defined in TimeVacationDays.

Note

By default, OTRS ships with the *German* holidays installed.

7.1.3. TimeVacationDaysOneTime

Holidays such as Easter that do not have a yearly fixed date but instead vary each year, can be specified in TimeVacationDaysOneTime.

Tickets will not escalate and will not be unlocked on dates defined in TimeVacationDaysOneTime.

Note

OTRS does not ship with any One-Time holidays pre-installed. This means that you need to add holidays, such as Easter or Thanksgiving, to the system when configuring OTRS.

7.2. Automated Unlocking

Locked tickets can be automatically unlocked by the system. This feature might be useful if, for example, an agent has locked tickets that need to be processed, but he can't work on them for some reason, say because he is out of the office on an emergency. The automated unlock feature unlocks tickets after a given time to ensure that no locked tickets will be forgotten, thereby allowing other agents to process them.

The amount of time before a ticket is unlocked can be specified in the queue settings for every queue. The module `bin/otrs.UnlockTickets.pl`, which is executed periodically as a cron job, performs the automated unlocking of tickets.

Notifications on unlocked tickets are sent out only to those agents that have the queue with the unlocked tickets set in "My queues", and that have activated the notification on unlocked tickets in their personal preferences.

Tickets will be unlocked if all of the following conditions are met:

- There is an *unlock timeout* defined for the queue the ticket is in.
- The ticket is set to *locked*.
- The ticket state is *open*.

The unlock timer will be reset if an agent adds a new external article to the ticket. It can be of any of the following types: *email-external*, *phone*, *fax*, *sms*, or *note-external*.

Also, if the last article in the ticket is created by an agent, and a customer adds another one, either via web or email response, the unlock timer will be reset.

The last event that will reset the unlock timer is when the ticket is assigned to another agent.

8. Customizing the PDF output

This section handles the configurable options for PDF output in OTRS.

If you use the Print action from anywhere within the OTRS interface, it will generate a formatted PDF file. You can deactivate this by modifying the configuration parameter PDF to create HTML output instead.

You can adjust the look of the files generated by OTRS by creating your own logo and adding it to PDF::LogoFile. You can use PDF::PageSize to define the standard page size of the generated pdf file (DIN-A4 or Letter), and also PDF::MaxPage to specify the maximum number of pages for a pdf file, which is useful if a user generates a huge output file by mistake.

The Perl CPAN modules PDF::API2 and Compress::Zlib must be installed for the generation of pdf files. In many distributions they are available as packages and can be easily installed, using the respective package manager. In case this is not possible, they have to be installed with CPAN. For further information about installing Perl modules, please refer to the "Installation of Perl modules" section.

9. Stats module

The OTRS stats module holds features to track operational statistics and generates custom reports associated with OTRS usage. The OTRS system uses the term "stat" generically to refer to a report presenting various indicators.

Proper configuration of the OTRS stats module is associated with a multitude of requirements and considerations. These include the various OTRS modules to be evaluated, user permission settings, indicators to be calculated and their complexity levels, ease of configuration of the stats module, speed and efficiency of calculations, and support of a rich set of output variants.

Statistical elements, i.e. files which supplement the functionality of the stats module for specific requirements, can be integrated for calculating complex statistics.

9.1. Handling of the module by the agent

When signed on as an agent, the navigation bar displays the link "Statistics", with various submenu options, as shown in Figure.

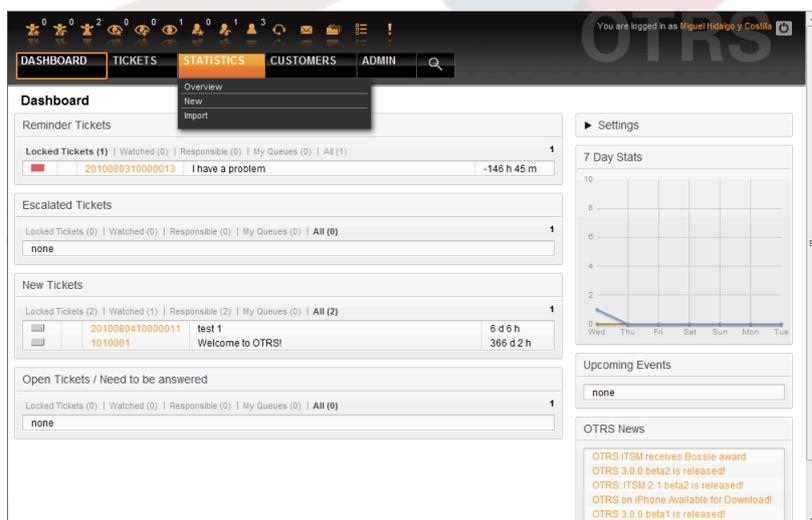


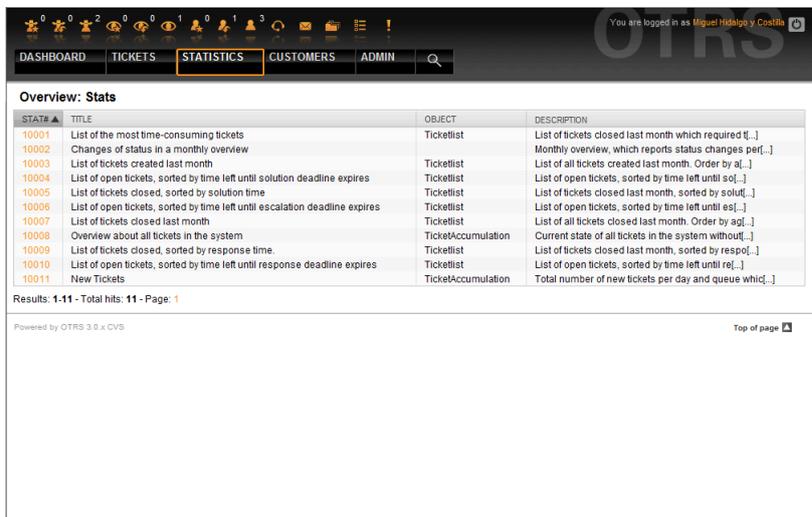
Figure: Statistics menu options.

The different options provided in the statistics menu are:

- *Overview*. Presents a list of different pre-configured reports.
- *New*. Requires rw rights.
- *Import*. Requires rw rights.

9.1.1. Overview

Selecting the "Statistics" link in the navigation bar, and then the submenu link "Overview", calls up the Overview screen. The Overview screen presents a list of all pre-configured reports the agent can use (see Figure below).



The screenshot shows the OTRS web interface. The navigation bar includes DASHBOARD, TICKETS, STATISTICS (selected), CUSTOMERS, and ADMIN. The main content area is titled "Overview: Stats" and contains a table with the following data:

STAT#	TITLE	OBJECT	DESCRIPTION
10001	List of the most time-consuming tickets	Ticketlist	List of tickets closed last month which required 4...
10002	Changes of status in a monthly overview		Monthly overview, which reports status changes per...
10003	List of tickets created last month	Ticketlist	List of all tickets created last month. Order by al...
10004	List of open tickets, sorted by time left until solution deadline expires	Ticketlist	List of open tickets, sorted by time left until so[...]
10005	List of tickets closed, sorted by solution time	Ticketlist	List of tickets closed last month, sorted by soluti...
10006	List of open tickets, sorted by time left until escalation deadline expires	Ticketlist	List of open tickets, sorted by time left until es[...]
10007	List of tickets closed last month	Ticketlist	List of all tickets closed last month. Order by ag[...]
10008	Overview about all tickets in the system	TicketAccumulation	Current state of all tickets in the system without[...]
10009	List of tickets closed, sorted by response time	Ticketlist	List of tickets closed last month, sorted by respo[...]
10010	List of open tickets, sorted by time left until response deadline expires	Ticketlist	List of open tickets, sorted by time left until res[...]
10011	New Tickets	TicketAccumulation	Total number of new tickets per day and queue whic[...]

Results: 1-11 - Total hits: 11 - Page: 1

Powered by OTRS 3.0 x CVS Top of page

Figure: Overview of the standard reports.

The following information is provided for each of the standard reports listed in the Overview:

- **Stat#.** Unique report number.
- **Title.** Title of the report.
- **Object.** Object used for generating the statistic. In the case of a static statistic, no object is displayed as no dynamic object is used for its generation.
- **Description.** A brief description of the report.

When the stats module is installed, it comes preloaded with a few sample reports imported into the system. These are shown as a list on the Overview page. If the Overview list extends to more than a single page, the agent can browse through the different pages. The list of reports can be sorted as desired, by clicking the desired column header in the list. To generate a particular report, click on the stat number associated with the report in the Overview list. This brings up the "View" interface for the report.

9.1.2. Generate and view reports

The view user interface provides the stat's configuration settings (see Figure below).

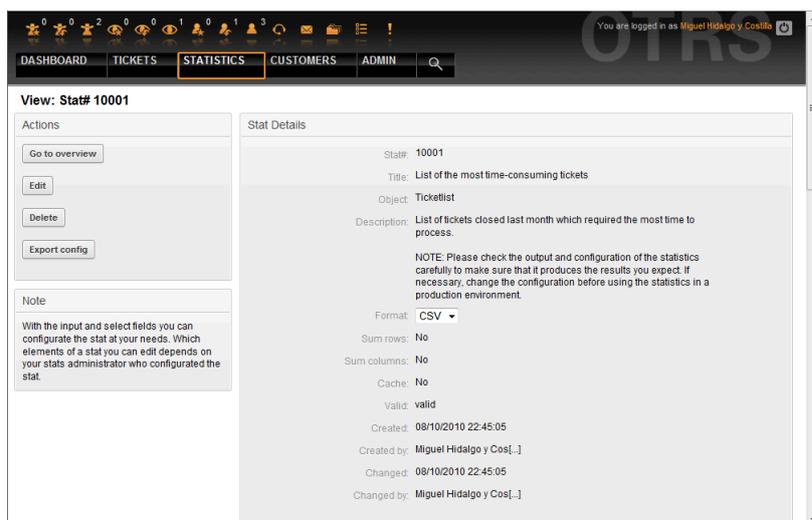


Figure: Viewing a specific report.

Configuration settings for a particular report can be set within the range of options in the View screen. Either the report creator or any others with the appropriate permissions can make the settings.

The page shows the following:

- Possible actions:
 - *Go to overview*. Link back to the Overview list of reports.
 - *Edit*. Edit the current report structure (rw rights required).
 - *Delete*. Delete the current report (rw rights required).
 - *Export config*. Export a report configuration, via file download (rw rights required).

Usage: Export and Import functions allow for the convenient creation and testing of reports on test systems and subsequent easy integration into the production system.
- Report details:
 - *Stat#*. Number of the report.
 - *Title*. Title of the report.
 - *Object*. Object used for generating the report.
 - *Description*. Description on the report's purpose.
 - *Format*. Report output format which, depending on the configuration, can be any of the following output formats:
 - CSV.
 - Print.
 - Graph-lines.
 - Graph-bars.
 - Graph-hbars.
 - Graph-points.

- Graph-lines-points.
- Graph-area.
- Graph-pie.
- *Graphsize*. Size in pixels for the graphic / chart. This option is only given when the report configuration allows a chart. All generally usable graphic sizes are configured by the OTRS administrator in SysConfig. The agent can then pre-select all relevant formats, while configuring the report.
- *Sum rows*. Indicates whether the report is amended by a column, whose cells state the sums of the respective rows.
- *Sum columns*. Indicates whether the report is amended by a row, whose cells state the sum of the respective columns.
- *Cache*. Indicates whether the generated report is cached in the filesystem.
- *Valid*. This can be set to "invalid" if a report must not be run temporarily for any reason. The "Start" button in the bottom of the right panel is then no longer displayed. The report can no longer be generated.
- *Created*. Creation time of the report.
- *Created by*. Name of the agent who created the report.
- *Changed*. Time when the report was last modified.
- *Changed by*. Name of the agent who altered the report last.
- *X-axis*. Using this function, the agent can switch the x and y axes (only when activated by the OTRS administrator).
- The general information is followed by information about the report itself. There are two different report (or stat) views:
 - *Static stat view*. Static report generators can be integrated into the stats module (see Figure below).

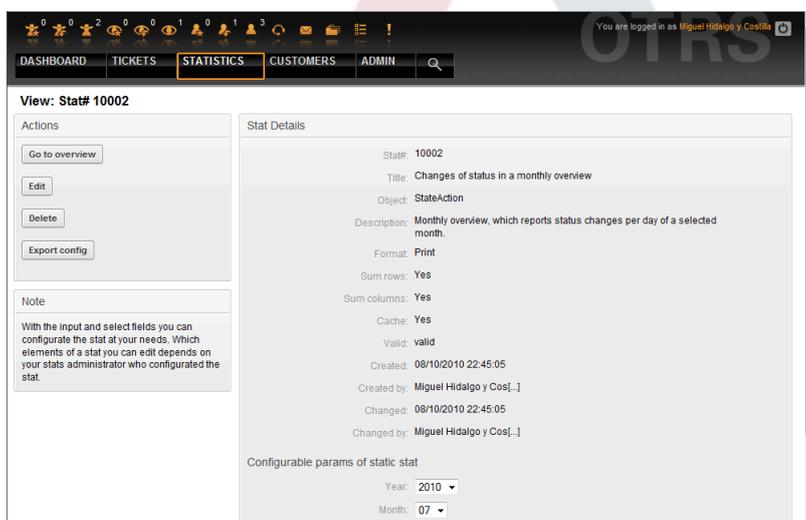


Figure: Viewing a static report.

- *Dynamic stat view* (see Figure above). They can be displayed in two different ways:
 - *Unchangeable settings*. The originator of the report has no permission for modifying this fields.
 - *Changeable settings*. The configuration settings of such reports can be changed by the agent.

Pressing the "Start" button (at the bottom of the screen) is the last step to generate the report. There are two possible reasons for this button to not be displayed:

1. The report was set to invalid and thus, deactivated.
2. The report was not configured cleanly and is, therefore, not yet executable. In this case, the necessary information can be found in the OTRS notification section (below the navigation bar).

If the settings on the View page are incorrect, this page is shown again after the "Start" button was pushed, and information about which input was incorrect is provided in the notification section.

9.1.3. Edit / New

Agents with write rights can edit an existing report configuration by calling up the edit user interface of the stats module. Alternately, they may create a new report. The associated screens can be reached in the following manner:

1. Edit: Via the "Edit" button in the stat view.
2. New: Via the "New" link in the Statistics menu from the navigation bar, or the "Add" button from the Overview page.

The stats are edited with a wizard in four steps:

1. General specifications.
2. Definition of the element for the X-axis.
3. Specification of the value series.
4. Selecting the restrictions to limit the report.

Steps 2 through 4 are only needed for the generation of reports with dynamic stats. For a static stat, only the general information (point 1) is required.

Information about how to handle the page is provided on each of these screens, below the Actions panel in a Hints panel.

If incorrect inputs are entered, the previously processed user interface is displayed again and with information about the incorrect input. This information can be found in the OTRS notification section. The next input user interface is only displayed after the current form has been filled out correctly.

1. *General specifications*. It is the first page of the Edit wizard (see Figure below).

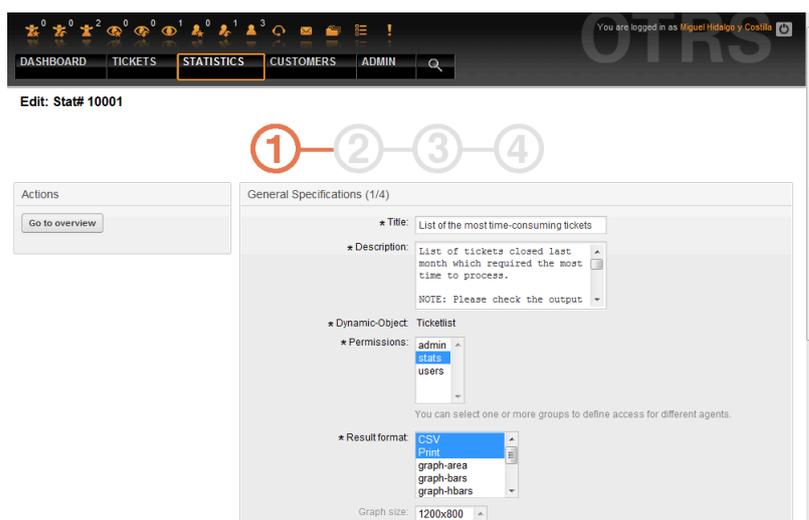


Figure: Editing the general specifications of a report.

In the screen showed in Figure, there are a great number of common specifications and settings that can be edited:

- **Title.** Should reflect the stat's purpose in a concise manner.
- **Description.** More descriptive information about the report definition, type of configuration parameters, etc.
- **Dynamic object.** If the OTRS installation provides various dynamic objects, one of them can be chosen. The objects meet the requirements of the particular modules.
- **Static file.** Usually this selection is not shown, as only static files which are not yet assigned to any reports are displayed. If "Static file" is displayed, however, it is important to tick the option field and select a generation mode (dynamic with a dynamic object or static with a file). If a static file is selected, the input user interfaces 2 through 4 are not shown as the static file contains all required configuration settings.
- **Permission settings.** Facilitate a restriction of the groups (and therefore, agents) who can later view and generate the preconfigured reports. Thus the various reports can be allocated to the different departments and work groups who need them. It is possible to allocate one report to various groups.

Example 1: The "stats" group was selected. The report is viewable for all users having at least ro rights for the "stats" group. This access is available by default.

Example 2: A group named "sales" was selected. All users with ro rights for the "sales" group can see the stat in the view mode and generate it. However, the report will not be available for viewing by other users.

- **Format.** Output format of the stat: Depending on the configuration, one or more of the following formats can be chosen:
 - CSV.
 - Print.
 - graph-lines.
 - graph-bars.

- graph-hbars.
- graph-points.
- graph-lines-points.
- graph-area.
- graph-pie.
- *Graphsize*. Select the chart size in pixels. This selection is only necessary if a graphical output format has been chosen under "Format". All graphic sizes that can generally be used are defined by the OTRS administrator in SysConfig. When configuring the report, the agent can pre-select all relevant formats.
- *Sum rows*. Indicates whether the report is amended by a column, whose cells contain the sum of the respective row.
- *Sum columns*. Indicates whether the report is amended by a row, whose cells contain the sum of the respective column.
- *Cache*. Specifies if the generated report should be cached in the filesystem. This saves computing power and time if the report is called up again, but it should only be used if the report's content is no longer changing.

Caching is automatically prevented if the report contains no time designation values, or if a time designation value points to the future.

If a cached report is edited, all cached data is deleted.

- *Valid*. This can be set to "invalid" if a pre-configured report must not be run temporarily for any reason. The "Start" button in the bottom of the right panel is then no longer displayed. The report can no longer be generated.

2. *Definition of the element for the X-axis*. It is the configuration of the element used for the depiction of the X-axis or, if tables are used, of the column name applied to the X-axis (see Figure).

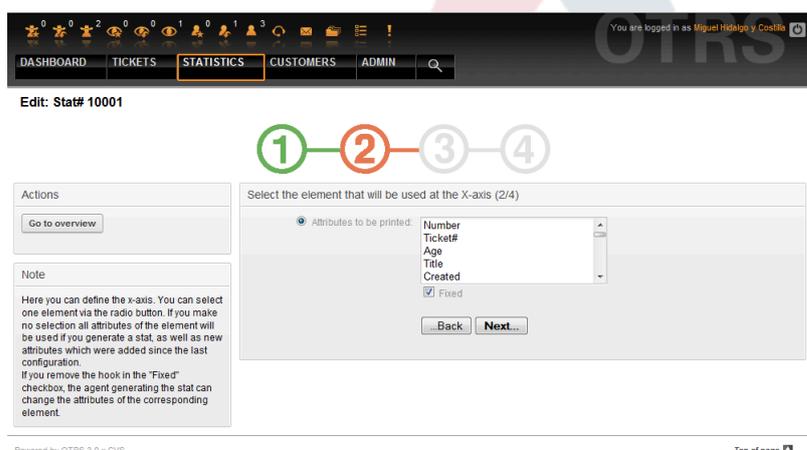


Figure: Definition of the element for the X-axis.

First of all, an element is selected using the option field. Then two or more attributes of the element must be selected. If no attributes are selected, all attributes are used including those added after the configuration of the report.

If the "Fixed" setting is disabled, the agent generating the report can change the attributes of the respective element in the "View" user interface.

Time elements are different as time period and scale have to be stated. Type and number of elements result from the used dynamic object and vary depending on it.

If all input is correct, the "Next" button leads to the "Value series" form. It is also possible to go back to editing earlier sections.

3. Specification of the value series.

In the third step of the report configuration, the value series are defined (see Figure below). They will later form the individual graphs or the various series within a tabular view.

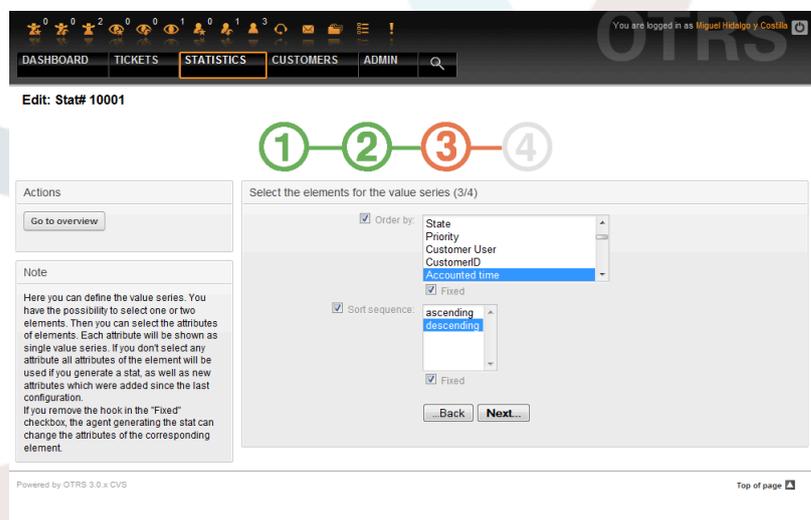


Figure: Definition of the value series.

If an element is selected, each chosen attribute will correspond to a value series (see the Example 19-1 below).

Example 4.19. Definition of a value series - one element

Element Queue:

- Value series 1 = Raw
- Value series 2 = Junk
-

If two elements are selected, each selected attribute of the first element is combined with an attribute of the second element to form a value series (see Example 19-2 below).

Example 4.20. Definition of a value series - two elements

Element 1 queue, Element 2 status:

- Value chain 1 = Raw - open
- Value series 2 = Raw - successfully closed
- Value series 3 = Junk - open
- Value series 4 = Junk - successfully closed

Selection of three or more elements is not allowed.

Additionally the same conditions apply to the selection of the attributes and the "Fixed" checkbox as to the "X-axis" selection:

- If no attributes of the element are selected, all attributes are used, including those added after the configuration of the report.
- If the "Fixed" setting is disabled, the agent generating the report can change the attributes of the respective element.

4. *Setting restrictions to the report.* This is the fourth and final step of the configuration (see Figure below). The restrictions serve to limit the results to the selected criteria. In many cases, no restrictions at all may be set up.

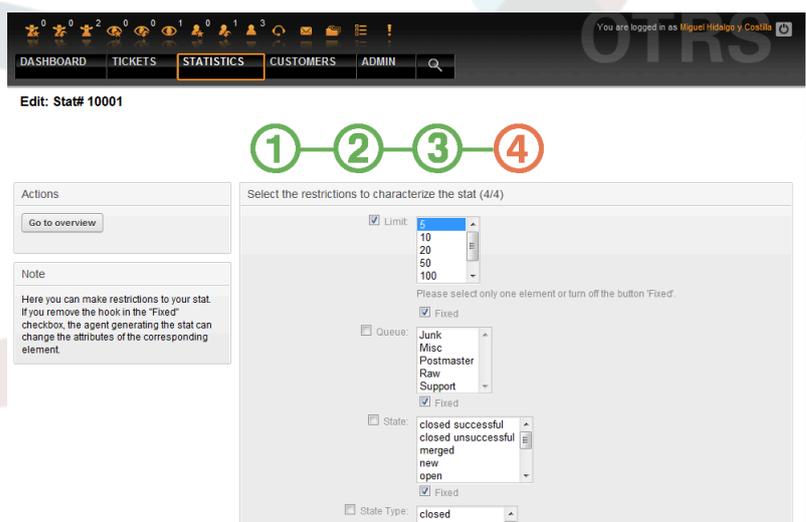


Figure: Definition of restrictions.

After all the restrictions are set up, the configuration of the report is completed by pressing the "Finish" button.

9.1.4. Import

The Import user interface (see Figure below) can be accessed by choosing from the navigation bar, the link "Statistics", then "Import". Alternately, pressing the Import button on the Overview screen achieves the same result. "rw" rights to the report are required.

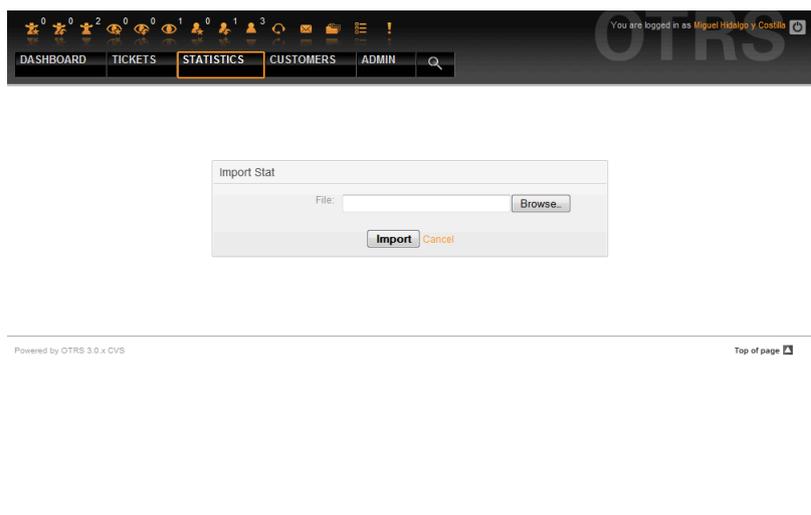


Figure: The Import user interface.

Facilitates the import of reports and is, when combined with the export function of the module, a very handy functionality. Stats can be created and tested conveniently on test systems, then imported into the production system.

The import is effected by an easy file upload. The "View" user interface of the imported report is opened automatically afterwards.

9.2. Administration of the stats module by the OTRS administrator

This section provides information about the tasks and responsibilities of the OTRS administrator dealing with the statistics module.

9.2.1. Permission settings, Groups and Queues

No new queues and/or groups are created when the stats module is installed.

The default configuration of the module registration gives all agents with "stats" group permissions access to the stats module.

Access according to permission settings:

- *rw*. Allows configuring statistics and reports.
- *ro*. Permits generating pre-configured statistics and reports.

The OTRS administrator decides whether agents with the permission to generate pre-configured reports are allocated *ro* rights in the "stats" group, or if their respective groups are added in the module registration in SysConfig.

9.2.2. SysConfig

The SysConfig groups `Framework:Core::Stats`, `Framework:Core::Stats::Graph` and `Framework:Frontend::Agent::Stats` contain all configuration parameters for the basic set-up of the statistics module. Moreover, the configuration parameter `$Self->{'Frontend::Module'}->{'AgentStats'}` controls the arrangement and registration of the modules and icons within the statistics module.

9.3. Administration of the stats module by the system administrator

Generally, no system administrator is needed for the operation, configuration and maintenance of the statistics module. However, a little background information for the system administrator is given at this point.

Note

File paths refer to subdirectories of the OTRS home directory (in most cases /opt/otrs).

9.3.1. Data base table

All report configurations are implemented and administrated in XML, and therefore stored in the database table "xml_storage". Other modules whose content is presented in xml format use this table as well.

9.3.2. List of all files

The following files are necessary for the stats module to work accurately:

- Kernel/System/Stats.pm
- Kernel/Modules/AgentStats.pm
- Kernel/System/CSV.pm
- Kernel/Output/HTML/Standard/AgentStatsOverview.dtl
- Kernel/Output/HTML/Standard/AgentStatsDelete.dtl
- Kernel/Output/HTML/Standard/AgentStatsEditSpecification.dtl
- Kernel/Output/HTML/Standard/AgentStatsEditRestrictions.dtl
- Kernel/Output/HTML/Standard/AgentStatsEditXaxis.dtl
- Kernel/Output/HTML/Standard/AgentStatsEditValueSeries.dtl
- Kernel/Output/HTML/Standard/AgentStatsImport.dtl
- Kernel/Output/HTML/Standard/AgentStatsPrint.dtl
- Kernel/Output/HTML/Standard/AgentStatsView.dtl
- Kernel/System/Stats/Dynamic/Ticket.pm
- bin/otrs.GenerateStats.pl

9.3.3. Caching

Whether the results of a statistic are to be cached or not can be setup in the configuration. Cached report results are stored as files in the var/tmp directory of the OTRS installation (in most cases /opt/otrs/var/tmp).

Cached stats can be recognized by the "Stats" prefix.

If the data is lost, no major damage is caused. The next time the report is called up, the stats module will not find the file any more and so will generate a new report. Of course this will probably take a little longer to run.

9.3.4. otrs.GenerateStats.pl

This file is saved in the `bindirectory`. It facilitates the generation of report in the command line.

As an example, see the command line call in the following script.

```
bin> perl otrs.GenerateStats.pl -n 10004 -o /output/dir
```

Script: Generating a report from the command line.

A report from the stat configuration "Stat# 10004" is generated and saved as csv in the `/output/dir` directory.

The generated report can also be sent as an e-mail. More information can be called up with the command in the script below.

```
bin> perl otrs.GenerateStats.pl --help
```

Script: Getting information about the otrs.GenerateStats.pl file.

9.3.5. Automated stat generation - Cronjob

It usually does not make sense to generate reports manually via the command line, as the stats module has a convenient graphical user interface. However, generating reports manually does make sense when combined with a Cronjob.

Imagine the following scenario: On the first day of every month, the heads of department want to receive a report for the past month. By combining a cronjob and command line call the reports can be sent to them automatically by e-mail.

9.3.6. Static stats

The stats module facilitates the generation of static statistics. For every static stat a file exists in which its content is precisely defined.

This way, very complex stats can be generated. The disadvantage is that they are not particularly flexible.

The files are saved in the directory `Kernel/System/Stats/Static/`.

9.3.7. Using old static stats

Prior OTRS versions 1.3 and 2.0 already facilitated the generation of stats / reports. Various reports for OTRS versions 1.3 and 2.0 which have been specially developed to meet customers' requirements can be used in recent OTRS versions too.

The files must merely be moved from the `Kernel/System/Stats/` path to `Kernel/System/Stats/Static/`. Additionally the package name of the respective script must be amended by `::Static`.

The following example shows how the first path is amended.

```
package Kernel::System::Stats::AccountedTime;
```

```
package Kernel::System::Stats::Static::AccountedTime;
```

9.3.8. Default stats

"It is not always necessary to reinvent the wheel..."

The stats module provides various default reports. Reports which are of interest for all OTRS users will in future be added to the default reports set of the stats module package. Default reports are saved in the stats module xml format in thescripts/test/sample/ directory.

10. Dynamic Fields

10.1. Introduction

A dynamic field is a special kind of field in OTRS, created to extend the information stored on a ticket or article. These fields are not fixed in the system and they can appear only in specific screens, they can be mandatory or not, and their representation in the screens depends on the field type defined at their creation time according to the data to be held by the field. For example, there are fields to hold a text, a date, a selection of items, etc.

Dynamic fields are the evolution of TicketFreeText TicketFreeKey TicketFreeTime, ArticleFreeText and ArticleFreeKey fields that were commonly used in OTRS 3.0 and before. The limitation of these "Free Fields" was that they can be defined up to 16 (text or dropdown) fields and 6 time fields for a ticket and 3 (text or dropdown) fields for each article only, not more.

Now with dynamic fields the limitation in the number of fields per ticket or article is removed, you can create as many dynamic fields you like either for ticket or articles. And beyond that, the framework behind the dynamic fields is prepared to handle custom fields for other objects rather than just ticket and articles.

This new framework that handles the dynamic fields is built using a modular approach, where each kind of dynamic field can be seen as a plug-in module for the framework. This means that the variety of dynamic fields can be easily extended by public OTRS modules, OTRS Feature Add-ons, OTRS custom developments, and other custom developments.

The following dynamic field types are included with this release:

- Text (one line of text)
- Textarea (multiple lines of text)
- Checkbox
- Dropdown (single choice, multiple values)
- Multiselect (multiple choice, multiple values)
- Date
- Date / Time

10.2. Configuration

By default, a clean installation of OTRS does not include any dynamic fields. If you plan to use such fields in tickets or articles you need to create dynamic fields.

The configuration of a dynamic field is split in two parts, to add a new dynamic field or manage an existing one you need to navigate into the "Admin" panel in the "Dynamic Fields" link. To show, show as mandatory or hide a dynamic field in one screen you need to change the OTRS settings in the "SysConfig" screen.

10.2.1. Adding a Dynamic Field

Click on the "Admin" button located in the navigation bar, then click on the "Dynamic Field" link inside "Ticket Settings" box located in the lower center of the screen. The dynamic fields overview will display as follows:

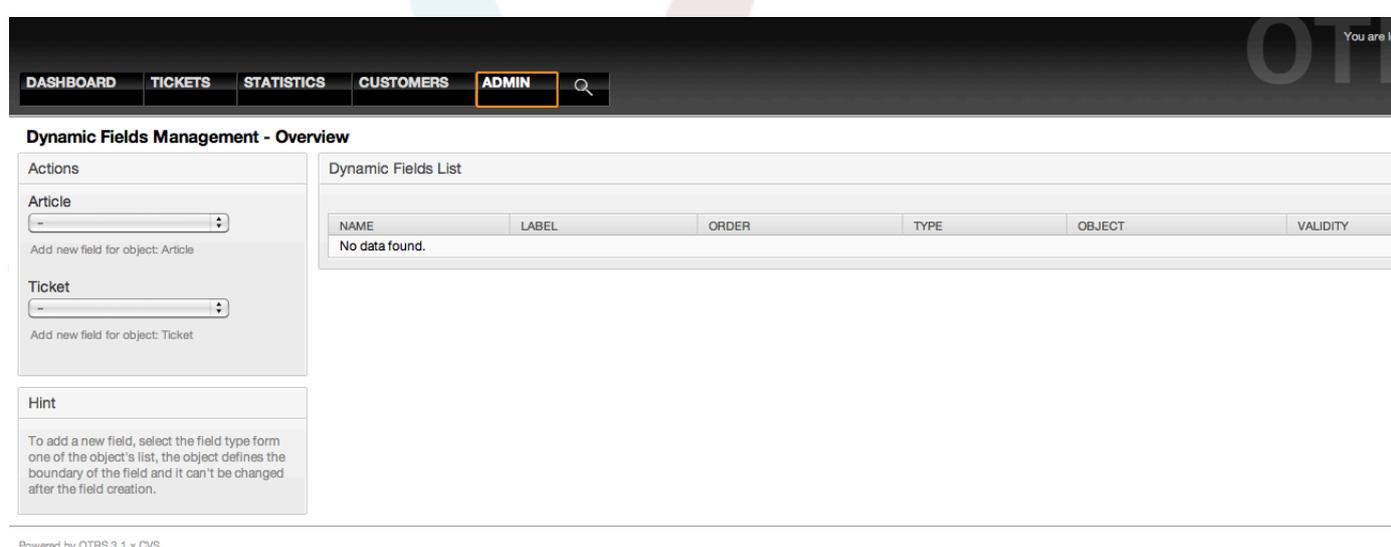


Figure: Dynamic fields overview screen, empty.

Notice that this screen will change as you add more dynamic fields to list all created dynamic fields. This screen might already have some fields if the installation was updated from an older version of OTRS.

The Actions in the side bar at the left of the screen describes two possibilities: Article and Ticket, each one has it's own dropdown selection of dynamic fields.

Note

The installation of an OTRS package could add more objects to the Action side bar.

The general procedure to create a dynamic field is:

- Click on the desired dynamic field object dropdown in the Action side bar.

- Click on the dynamic field type that you want to add from the list.
- Fill the configuration.
- Save.

The configuration dialogs for the dynamic fields are split in two parts, the upper section is common among all the fields and the lower part might be different from one type of dynamic field to another.

General dynamic field settings:

- Name: Mandatory, unique, only letters and numbers are allowed.

This is the internal name of the field, used for example to show or hide a field in one screen. Any modification of a field name (not recommended) requires a manual update of the "SysConfig" settings where the field is referenced.

- Label: Mandatory.

This is the field name to be displayed on the screens, it supports translations.

Note

Label translations have to be added manually to language translations files.

- Field order: Mandatory.

Defines the relative order in which the field will be displayed on the screen, by default each new field has the last position, a change in this setting will affect the order of the other created dynamic fields.

- Validity: Mandatory.

An invalid dynamic field will not be displayed in any screen, no matter if is configured to displayed.

- Field type: Mandatory, Read only.

Shows the current selected field type.

- Object type: Mandatory, Read only.

Shows the scope of field.

Note

To illustrate each specific field type settings a few fields will be added in our example. These new fields will be referenced in later sections.

For the following examples all the dynamic fields will be created for the Ticket object if you need to create a dynamic field for Article object, just choose the field from the Article dropdown list.

Table 4.6. The following fields will be added into the system:

Name	Label	Type
Field1	My Field 1	Text
Field2	My Field 2	Textarea
Field3	My Field 3	Checkbox

Name	Label	Type
Field4	My Field 4	Dropdown
Field5	My Field 5	Multiselect
Field6	My Field 5	Date
Field7	My Field 6	Date / Time

10.2.2. Text Dynamic Field Configuration

Text dynamic field is used to store a single line string.

Text dynamic field settings:

- Default value: Optional.

This is the value to be shown by default on the edit screens (like New Phone Ticket or Ticket Compose).

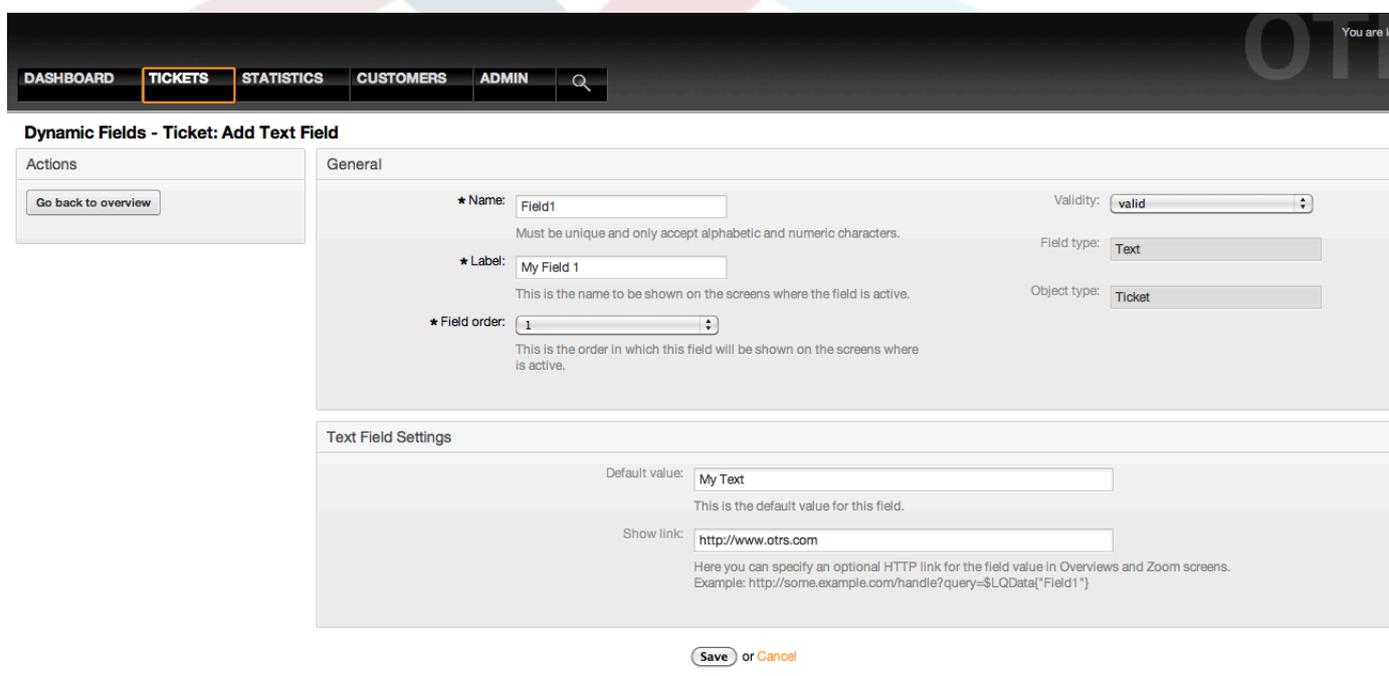
- Show link: Optional.

If set, the field value will be converted into a clickable link for display screens (like ticket zoom or overviews).

For example, if "Show link" is set to "http://www.otrs.com", clicking on the filled value will make your browser to open the OTRS web page.

Note

The use of `$LQData{"NameX"}` in the Set link value, where NameX is the name of the field will add the field value as part of the link reference.



The screenshot shows the OTRS web interface for configuring a dynamic field. The navigation bar includes Dashboard, Tickets (selected), Statistics, Customers, and Admin. The main heading is "Dynamic Fields - Ticket: Add Text Field".

Actions: A button labeled "Go back to overview".

General:

- Name:** Field1 (Must be unique and only accept alphabetic and numeric characters.)
- Label:** My Field 1 (This is the name to be shown on the screens where the field is active.)
- Field order:** 1 (This is the order in which this field will be shown on the screens where is active.)
- Validity:** valid
- Field type:** Text
- Object type:** Ticket

Text Field Settings:

- Default value:** My Text (This is the default value for this field.)
- Show link:** http://www.otrs.com (Here you can specify an optional HTTP link for the field value in Overviews and Zoom screens. Example: http://some.example.com/handle?query=\$LQData{"Field1"})

Buttons for "Save" and "Cancel" are at the bottom.

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Figure: Dynamic field Text configuration dialog.

10.2.3. Textarea Dynamic Field Configuration

Textarea dynamic field is used to store a multiple line string.

Textarea dynamic field settings:

- Number of rows: Optional, integer.

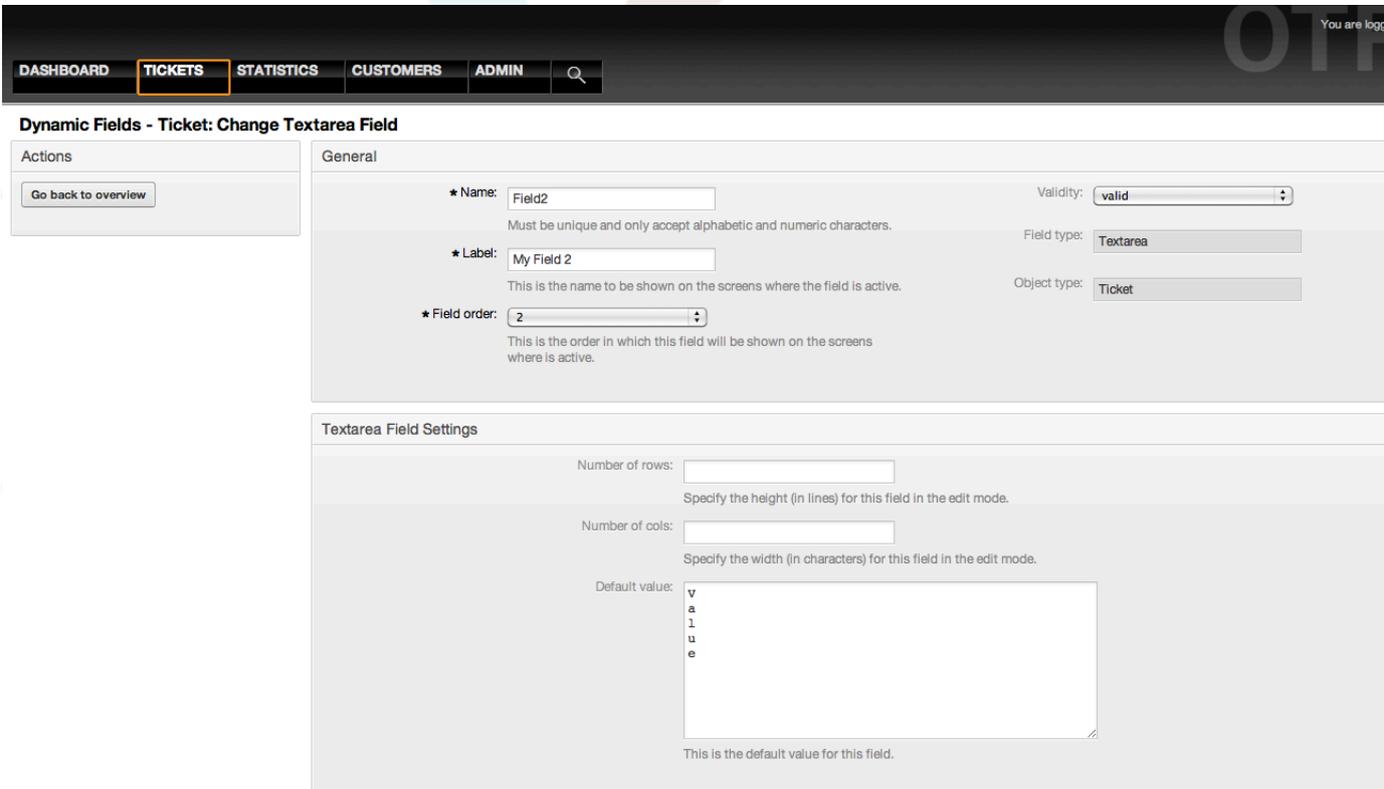
Used to define the height of the field in the edit screens (like New Phone Ticket or Ticket Compose).

- Number of cols: Optional, Integer.

This value is used to define the width of the field in the edit screens.

- Default value: Optional.

This is the value to be shown by default in the edit screens (it can be a multiple line text).



The screenshot shows the OTRS web interface with a navigation menu (DASHBOARD, TICKETS, STATISTICS, CUSTOMERS, ADMIN) and a search icon. The main content area is titled "Dynamic Fields - Ticket: Change Textarea Field".

On the left, there is an "Actions" panel with a "Go back to overview" button.

The main configuration area is divided into two sections:

- General:**
 - Name:** Field2 (Must be unique and only accept alphabetic and numeric characters.)
 - Label:** My Field 2 (This is the name to be shown on the screens where the field is active.)
 - Field order:** 2 (This is the order in which this field will be shown on the screens where is active.)
 - Validity:** valid
 - Field type:** Textarea
 - Object type:** Ticket
- Textarea Field Settings:**
 - Number of rows:** (Specify the height (in lines) for this field in the edit mode.)
 - Number of cols:** (Specify the width (in characters) for this field in the edit mode.)
 - Default value:** v
a
l
u
e (This is the default value for this field.)

Figure: Dynamic field Textarea configuration dialog.

10.2.4. Checkbox Dynamic Field Configuration

Checkbox dynamic field is used to store true or false value, represented by a checked or unchecked check box.

Checkbox dynamic field settings:

- Default value: Mandatory.

This is the value to be shown by default on the edit screens (like New Phone Ticket or Ticket Compose), the default value for this field is closed selection which can be Checked or Unchecked.

DASHBOARD
TICKETS
STATISTICS
CUSTOMERS
ADMIN
🔍

Dynamic Fields - Ticket: Add Checkbox Field

Actions

Go back to overview

General

★ Name:
Must be unique and only accept alphabetic and numeric characters.

★ Label:
This is the name to be shown on the screens where the field is active.

★ Field order:
This is the order in which this field will be shown on the screens where is active.

Validity:

Field type:

Object type:

Checkbox Field Settings

Default value:

This is the default value for this field.

or

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Figure: Dynamic field Checkbox configuration dialog.

10.2.5. Dropdown Dynamic Field Configuration

Dropdown dynamic field is used to store a single value, from a closed list.

Dropdown dynamic field settings:

- Possible values: Mandatory.

List of values to choose. If used, a new value is necessary to specify the Key (internal value) and the Value (display value).

- Default value: Optional.

This is the value to be show by default on the edit screens (like New Phone Ticket or Ticket Compose), the default value for this field is closed selection defined by the Possible values.

- Add empty value: Mandatory, (Yes / No).

If this option is activated an extra value is defined to show a "-" in the list of possible values, this special value is empty internally.

- Translatable values: Mandatory, (Yes / No).

This setting is used mark the possible values of this field to be translated. Only the display values are translated, internal values are not affected, the translation of the values needs to be manually added to the language files.

- Show link: Optional.

If set, the field value will be converted into a clickable HTP link for display screens (like Zoom or overviews).

For example, if Show link is set to "http://www.otrs.com", clicking on the filed value will make your browser to open the OTRS web page.

Note

The use of `$LQData{"NameX"}` in the Set link value, where NameX is the name of the field, will add the field value as part of the link reference.

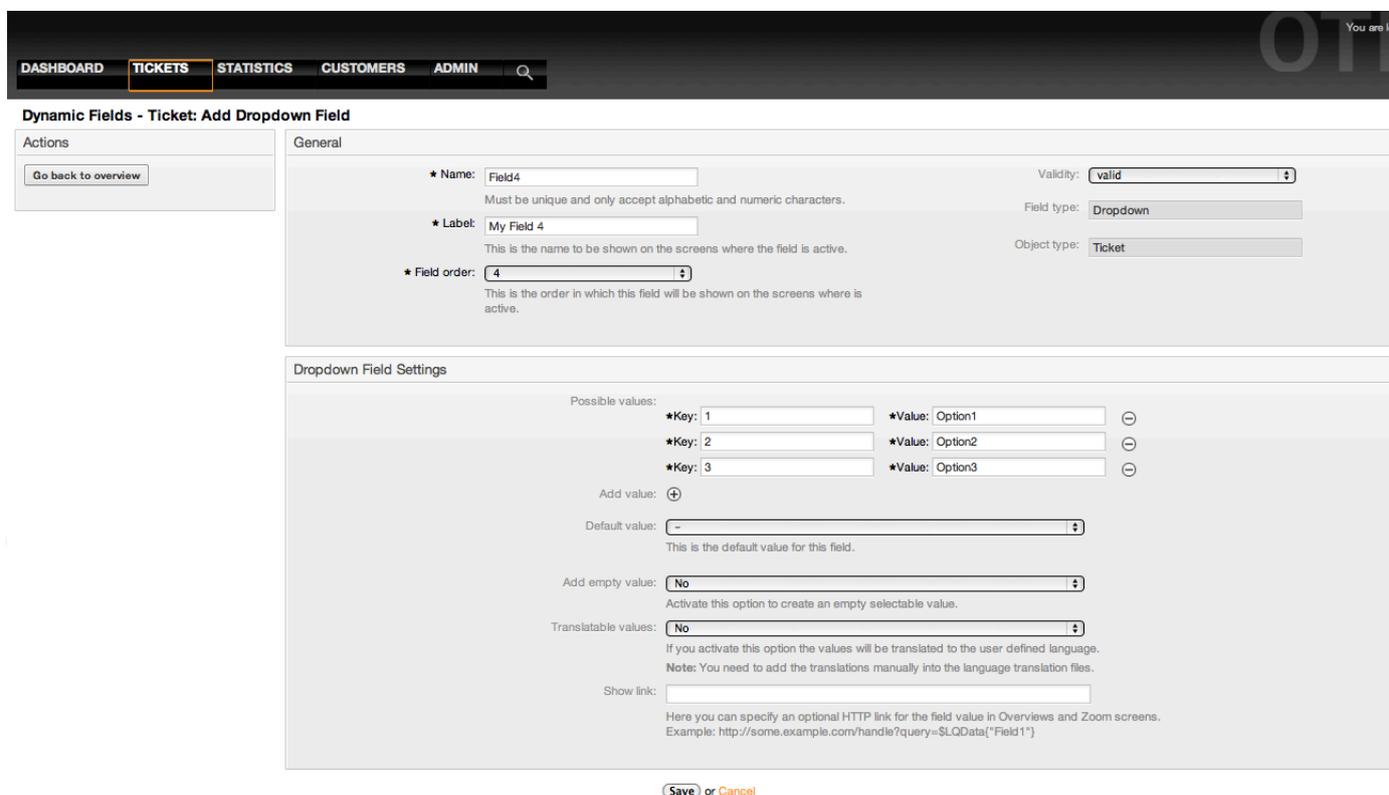


Figure: Dynamic field Dropdown configuration dialog.

10.2.6. Multiselect Dynamic Field Configuration

Multiselect dynamic field is used to store multiple values, from a closed list.

Multiselect dynamic field settings:

- Possible values: Mandatory.

List of values to choose from. When adding additional list items, it is necessary to specify the Key (internal value) and the Value (display value).

- Default value: Optional.

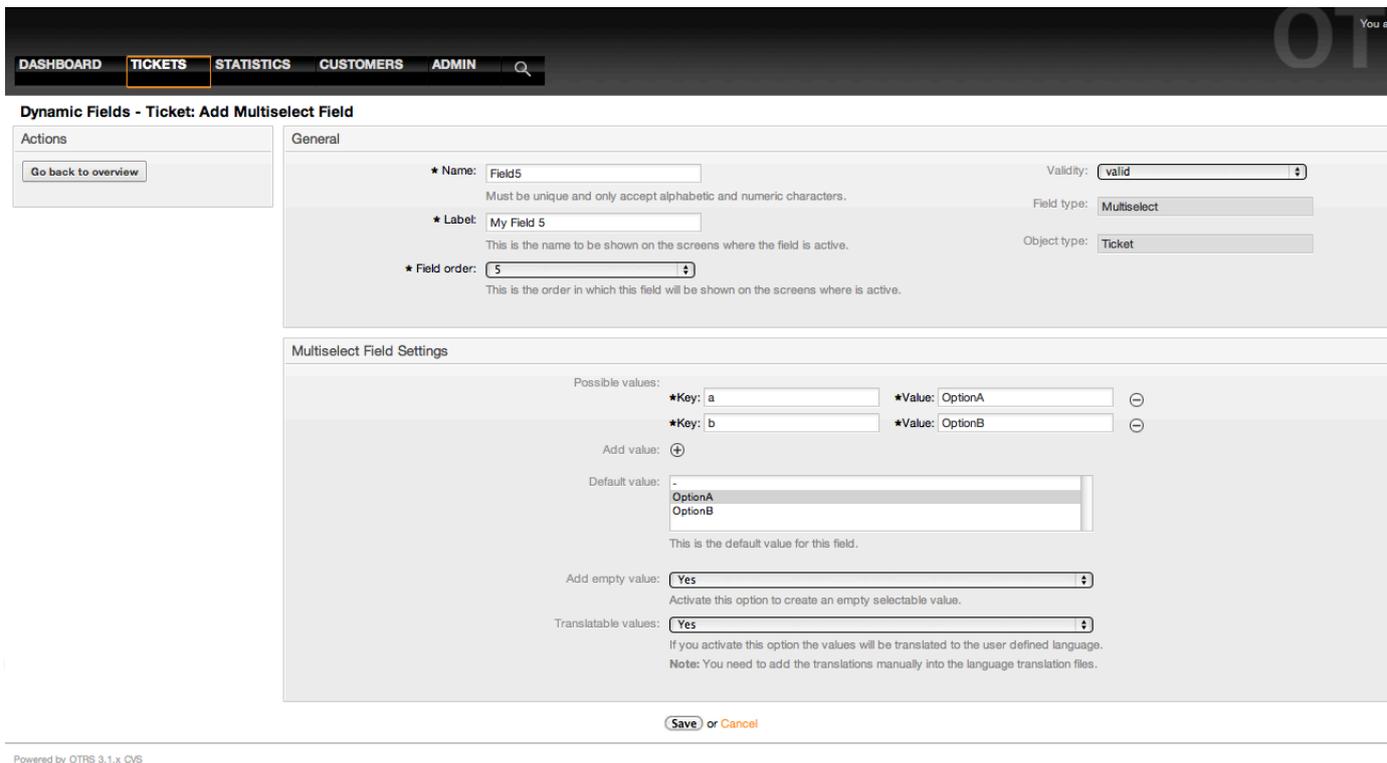
This is the value to be shown by default on the edit screens (like New Phone Ticket or Ticket Compose), the default value for this field is closed selection as defined by the Possible values.

- Add empty value: Mandatory, (Yes / No).

If this option is activated an extra value is defined to show as a "-" in the list of possible values. This special value is empty internally.

- Translatable values: Mandatory, (Yes / No).

This setting is used mark the possible values of this field to be translated. Only the display values are translated, internal values are not affected, the translation of the values needs to be manually added to the language files.



The screenshot shows the 'Dynamic Fields - Ticket: Add Multiselect Field' configuration dialog. It is divided into two main sections: 'General' and 'Multiselect Field Settings'.

General Section:

- Name:** Field5 (Must be unique and only accept alphabetic and numeric characters.)
- Label:** My Field 5 (This is the name to be shown on the screens where the field is active.)
- Field order:** 5 (This is the order in which this field will be shown on the screens where is active.)
- Validity:** valid
- Field type:** Multiselect
- Object type:** Ticket

Multiselect Field Settings Section:

- Possible values:**
 - *Key: a, *Value: OptionA
 - *Key: b, *Value: OptionB
- Add value:** (+)
- Default value:** - (Listed options: OptionA, OptionB)
- Default value description:** This is the default value for this field.
- Add empty value:** Yes (Activate this option to create an empty selectable value.)
- Translatable values:** Yes (If you activate this option the values will be translated to the user defined language. Note: You need to add the translations manually into the language translation files.)

Buttons: Save or Cancel

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Figure: Dynamic field Multiselect configuration dialog.

10.2.7. Date Dynamic Field Configuration

Date dynamic field is used to store a date value (Day, Month and Year).

Date dynamic field settings:

- Default date difference: Optional, Integer.

Number of seconds (positive or negative) between the current date and the selected date to be show by default in the edit screens (like New Phone Ticket or Ticket Compose).

- Define years period: Mandatory (Yes / No).

Used to set a defined number of years in the past and the future based on the current date of the year select for this field, If set to Yes the following options are available:

- Years in the past: Optional, Positive integer.

Define the number of years in the past from the current day to display in the year selection for this dynamic field in edit screens.

- Years in the future: Optional, Positive integer.

Define the number of years in the future from the current day to display in the year selection for this dynamic field in edit screens.

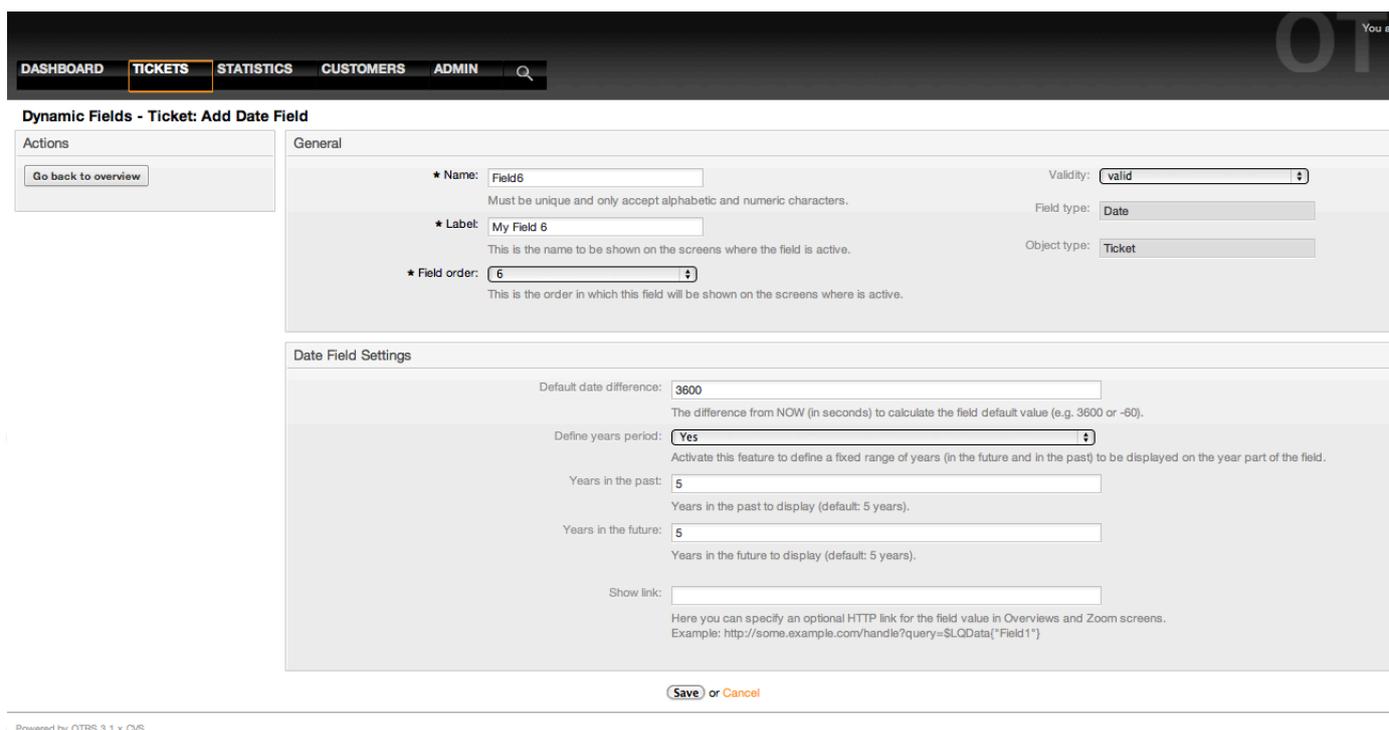
- Show link: Optional.

If set, the field value will be converted into a clickable HTTP link for display screens (like Zoom or overviews).

For example, if Show link is set to "http://www.otrs.com", clicking on the field value will make your browser to open the OTRS web page.

Note

The use of `$LQData{"NameX"}` in the Set link value, where NameX is the name of the field will add the field value as part of the link reference.



The screenshot shows the 'Dynamic Fields - Ticket: Add Date Field' configuration dialog. It is divided into several sections:

- Actions:** A button labeled 'Go back to overview'.
- General:**
 - Name:** 'Field6' (with a note: 'Must be unique and only accept alphabetic and numeric characters.')
 - Label:** 'My Field 6' (with a note: 'This is the name to be shown on the screens where the field is active.')
 - Field order:** '6' (with a note: 'This is the order in which this field will be shown on the screens where is active.')
 - Validity:** 'valid'
 - Field type:** 'Date'
 - Object type:** 'Ticket'
- Date Field Settings:**
 - Default date difference:** '3600' (with a note: 'The difference from NOW (in seconds) to calculate the field default value (e.g. 3600 or -60).')
 - Define years period:** 'Yes' (with a note: 'Activate this feature to define a fixed range of years (in the future and in the past) to be displayed on the year part of the field.')
 - Years in the past:** '5' (with a note: 'Years in the past to display (default: 5 years).')
 - Years in the future:** '5' (with a note: 'Years in the future to display (default: 5 years).')
 - Show link:** (empty field, with a note: 'Here you can specify an optional HTTP link for the field value in Overviews and Zoom screens. Example: http://some.example.com/handle?query=\$LQData{"Field1"}')

At the bottom right, there are 'Save' and 'Cancel' buttons.

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Figure: Dynamic field Date configuration dialog.

10.2.8. Date / Time Dynamic Field Configuration

Date / Time dynamic field is used to store a date time value (Minute, Hour, Day, Month and Year).

Date / Time dynamic field settings:

- Default date difference: Optional, Integer.

Number of seconds (positive or negative) between the current date and the selected date to be shown by default in the edit screens (like New Phone Ticket or Ticket Compose).

- Define years period: Mandatory (Yes / No).

Used to set a defined number of years in the past and the future from the current date in the year select of this field, If set to Yes the following options are available:

- Years in the past: Optional, Positive integer.

Define the number of years in the past from the current day to display in the year selection for this dynamic field in edit screens.

- Years in the future: Optional, Positive integer.

Define the number of years in the future from the current day to display in the year selection for this dynamic field in edit screens.

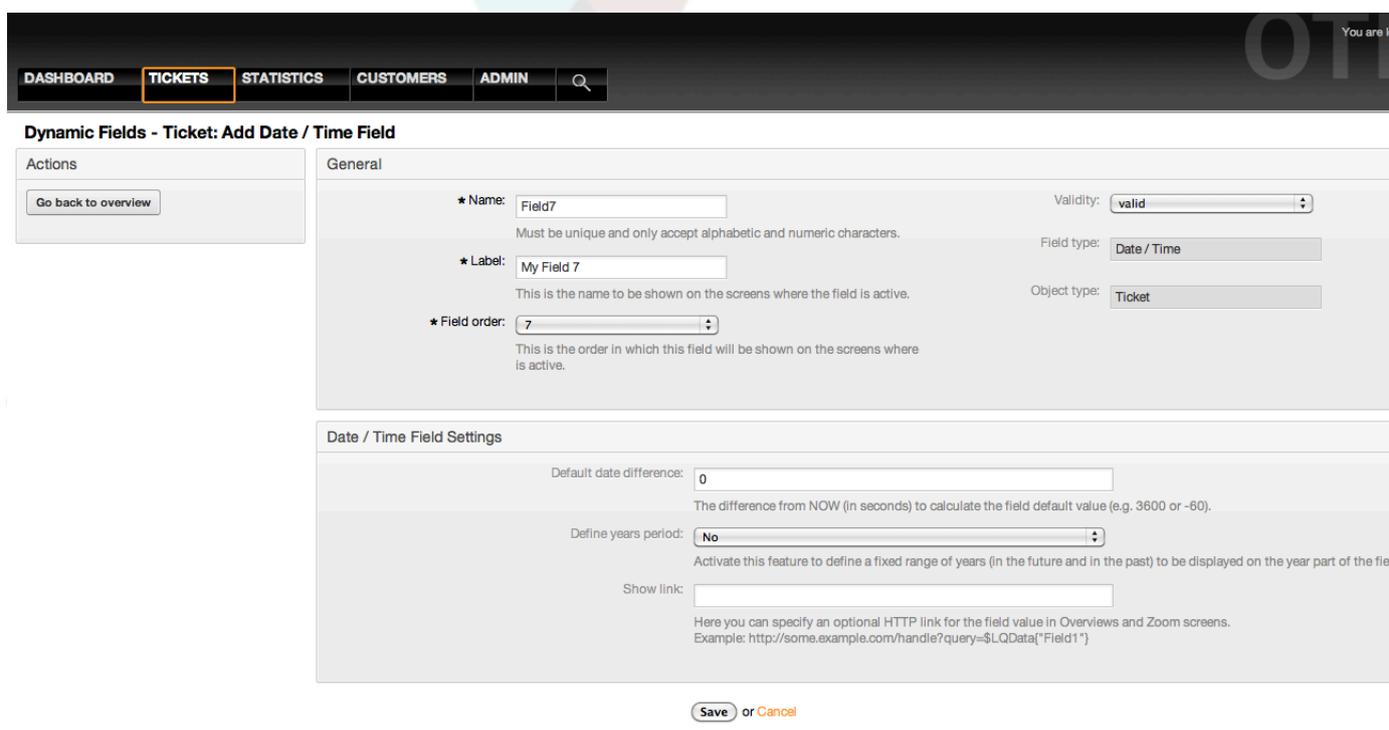
- Show link: Optional.

If set, the field value will be converted into a clickable HTTP link for display screens (like Zoom or overviews).

For example, if Show link is set to "http://www.otrs.com", clicking on the field value will make your browser to open the OTRS web page.

Note

The use of `$LQData{"NameX"}` in the Set link value, where NameX is the name of the field will add the field value as part of the link reference.



The screenshot shows the 'Dynamic Fields - Ticket: Add Date / Time Field' configuration dialog. It is divided into several sections:

- Actions:** A button labeled 'Go back to overview'.
- General:**
 - * Name:** Field7 (Must be unique and only accept alphabetic and numeric characters.)
 - * Label:** My Field 7 (This is the name to be shown on the screens where the field is active.)
 - * Field order:** 7 (This is the order in which this field will be shown on the screens where is active.)
 - Validity:** valid
 - Field type:** Date / Time
 - Object type:** Ticket
- Date / Time Field Settings:**
 - Default date difference:** 0 (The difference from NOW (in seconds) to calculate the field default value (e.g. 3600 or -60).)
 - Define years period:** No (Activate this feature to define a fixed range of years (in the future and in the past) to be displayed on the year part of the field.)
 - Show link:** (Here you can specify an optional HTTP link for the field value in Overviews and Zoom screens. Example: http://some.example.com/handle?query=\$LQData{"Field1"})

At the bottom right, there are 'Save' and 'Cancel' buttons.

Figure: Dynamic field Date / Time configuration dialog.

10.2.9. Editing a Dynamic Field

A filled dynamic field overview screen (with the previous examples) should look like:

DASHBOARD
TICKETS
STATISTICS
CUSTOMERS
ADMIN
You are logged in as...

Dynamic Fields Management - Overview

Actions

Article

Add new field for object: Article

Ticket

Add new field for object: Ticket

Hint

To add a new field, select the field type from one of the object's list, the object defines the boundary of the field and it can't be changed after the field creation.

Dynamic Fields List

NAME	LABEL	ORDER	TYPE	OBJECT	VALIDITY
Field1	My Field 1	1	Text	Ticket	valid
Field2	My Field 2	2	Textarea	Ticket	valid
Field3	My Field 3	3	Checkbox	Ticket	valid
Field4	My Field 4	4	Dropdown	Ticket	valid
Field5	My Field 5	5	Multiselect	Ticket	valid
Field6	My Field 6	6	Date	Ticket	valid
Field7	My Field 7	7	Date / Time	Ticket	valid

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Figure: Dynamic field overview screen filled with sample data.

To change or edit a dynamic field you must have at least one field defined, select an already added field from the dynamic fields overview screen and update its settings.

Note

Not all the dynamic field settings can be changed, the Field type and Object type are fixed from the selection of the field and they can't be changed.

It is not recommended to change the field internal name, but the label can be changed at any time. If internal name is changed all "SysConfig" settings that have a reference to that particular field needs to be updated as well as user preferences (if defined).

10.2.10. Showing a Dynamic Field on a Screen

To display a dynamic field on a particular screen there are two mandatory conditions:

1. The dynamic field must be valid.
2. The dynamic field must be set to 1 or 2 in the configuration of the screen.

Follow these steps to show a dynamic field in a screen

- Be sure that the dynamic field is set to valid, you can see the validity of the field from the dynamic field overview screen. Set to valid by editing the field if necessary.
- Open the "sysconfig" and select "Ticket" from the dropdown list in the Actions side bar located in the left part of the screen.

Note

You can also search for "DynamicField" in the search box above or the "sysconfig" key directly if you already know it.

- Locate the setting sub-group for the screen that you are looking for and click on it. For example "Frontend::Agent::Ticket::ViewPhoneNew".
- Search for the setting that ends with "###DynamicField". For example "Ticket::Frontend::AgentTicketPhone###DynamicField".
- If the setting is empty or does not have the required dynamic field name, click on the "+" button to add a new entry. For example Key: Field1, Content: 1.

If the setting already has the dynamic field name listed be sure that is set to "1" to display the field or to "2" to display it as mandatory.

- Save the configuration by clicking in the "Update" button and the bottom of the screen and navigate to the screen where you want the field to be displayed.

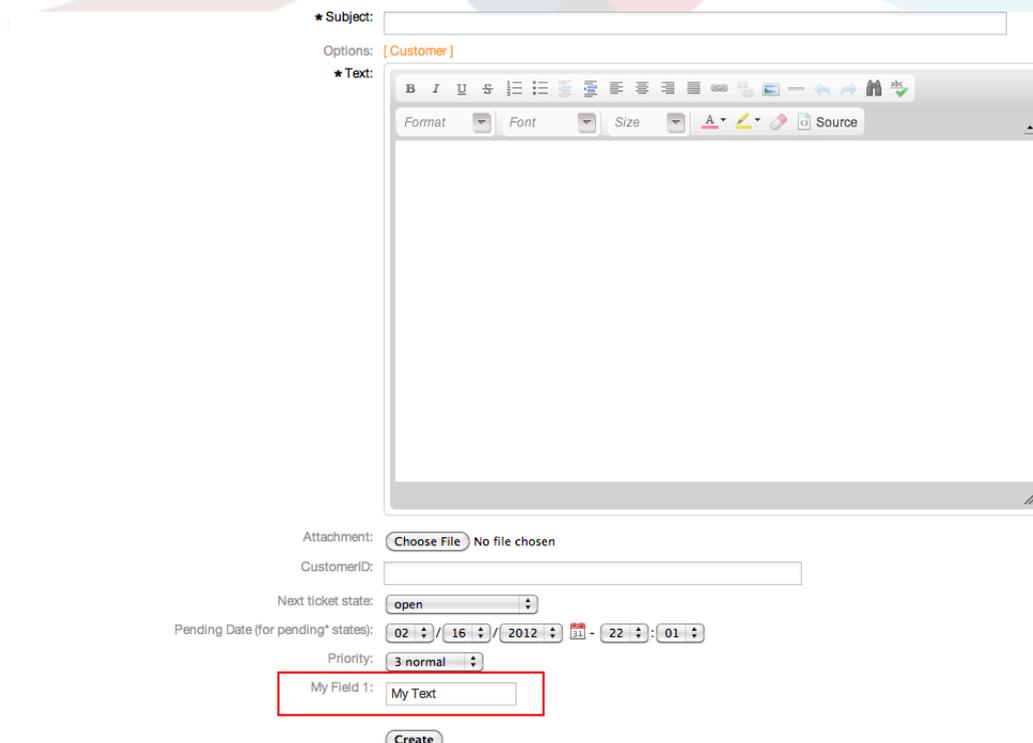
10.2.10.1. Show Examples

The following are "sysconfig" configurations examples to show or hide dynamic fields on different screens.

Example 4.21. Activate Field1 in New Phone Ticket Screen.

- *Group:* Ticket
- *Sub-group:* Frontend::Agent::Ticket::ViewPhoneNew
- *Setting:* Ticket::Frontend::AgentTicketPhone###DynamicField
- *Value:*

Key	Content
Field1	1



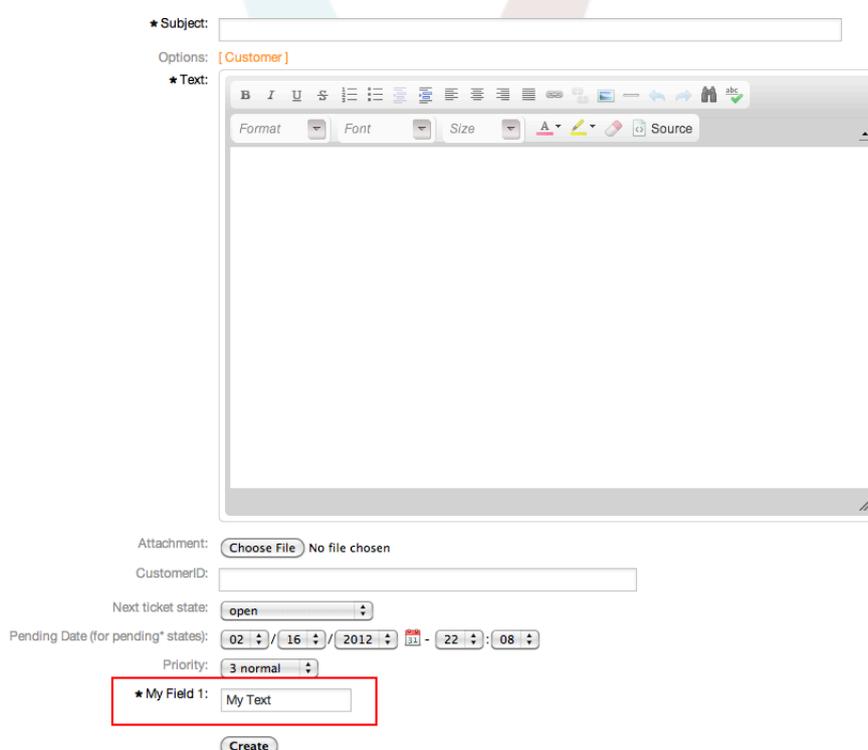
The screenshot shows the OTRS ticket creation interface. At the top, there are fields for 'Subject', 'Options' (set to [Customer]), and 'Text'. Below these is a rich text editor. Further down, there are fields for 'Attachment' (Choose File), 'CustomerID', 'Next ticket state' (open), 'Pending Date' (02/16/2012 22:01), and 'Priority' (3 normal). At the bottom, the 'My Field 1' field is highlighted with a red box and contains the text 'My Text'. A 'Create' button is located at the very bottom of the form.

Figure: Field1 in New Phone Ticket Screen.

Example 4.22. Activate Field1 in New Phone Ticket Screen as mandatory.

- Group: Ticket
- Sub-group: Frontend::Agent::Ticket::ViewPhoneNew
- Setting: Ticket::Frontend::AgentTicketPhone###DynamicField
- Value:

Key	Content
Field1	2



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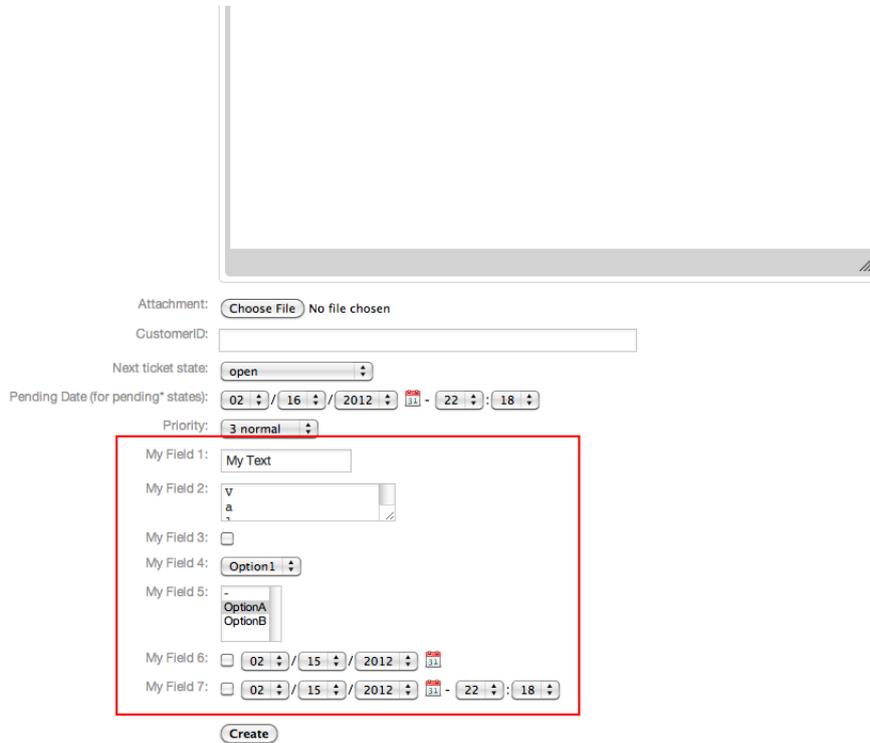
Figure: Field1 in New Phone Ticket Screen as mandatory.

Example 4.23. Activate several fields in New Phone Ticket Screen.

- Group: Ticket
- Sub-group: Frontend::Agent::Ticket::ViewPhoneNew
- Setting: Ticket::Frontend::AgentTicketPhone###DynamicField
- Value:

Key	Content
Field1	1
Field2	1

Key	Content
Field3	1
Field4	1
Field5	1
Field6	1
Field7	1



Attachment: No file chosen

CustomerID:

Next ticket state:

Pending Date (for pending* states): / / - :

Priority:

My Field 1:

My Field 2:

My Field 3:

My Field 4:

My Field 5:

My Field 6: / /

My Field 7: / / - :

Powered by OTRS 3.1.x CVS

Figure: Several fields in New Phone Ticket Screen as mandatory.

Example 4.24. Deactivate some fields in New Phone Ticket Screen.

- *Group:* Ticket
- *Sub-group:* Frontend::Agent::Ticket::ViewPhoneNew
- *Setting:* Ticket::Frontend::AgentTicketPhone###DynamicField
- *Value:*

Key	Content
Field1	1
Field2	0
Field3	1
Field4	0
Field5	1
Field6	0
Field7	1

Attachment: No file chosen

CustomerID:

Next ticket state:

Pending Date (for pending* states): / / - :

Priority:

My Field 1:

My Field 3:

My Field 5:

My Field 7: / / - :

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Figure: Some deactivated fields in New Phone Ticket Screen as mandatory.

Example 4.25. Activate Field1 in Ticket Zoom Screen.

- *Group:* Ticket
- *Sub-group:* Frontend::Agent::Ticket::ViewZoom
- *Setting:* Ticket::Frontend::AgentTicketZoom###DynamicField
- *Value:*

Key	Content
Field1	1

1

DASHBOARD **TICKETS** STATISTICS CUSTOMERS ADMIN

Ticket#201202151000016 – Testing Ticket

1 Article(s) Age: 4 m – Created: 02/15/2012 22:30 by My User

Back | Lock | History | Print | Priority | Free Fields | Link | Owner | Responsible | Customer | Note | Merge | Pending | Watch | Close | Change Queue

NO.	TYPE	FROM	SUBJECT	CREATED
1	customer – phone	test@test.com	Testing Ticket	02/15/2012 22:30

▼ #1 – Testing Ticket Created: 02/15/2012 22:30 by My User

Forward | Phone Call Outbound | Phone Call Inbound | Split | Print | Reply

From: test@test.com
 To: Junk
 Subject: Testing Ticket

This is a test

Ticket Information
 State: open
 Locked: unlocked
 Priority: 3 normal
 Queue: Junk
 CustomerID: My User
 Owner: My User
 Responsible: My User
 My Field 1: My User

Customer Information
 none

Linked Objects
 none

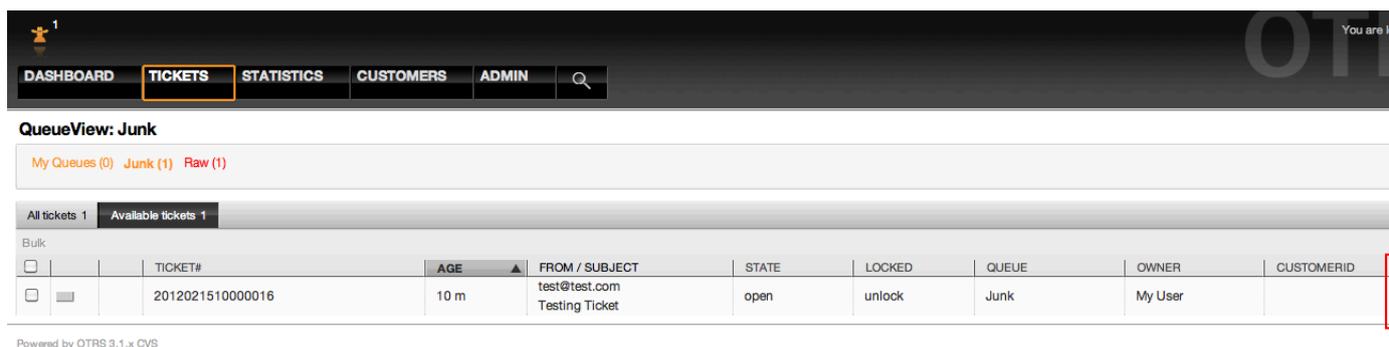
Powered by OTRS 3.1.x CVS

Figure: Field1 in Ticket Zoom Screen.

Example 4.26. Activate Field1 in Ticket Overview Small Screens.

- *Group:* Ticket
- *Sub-group:* Frontend::Agent::TicketOverview
- *Setting:* Ticket::Frontend::OverviewSmall###DynamicField
- *Value:*

Key	Content
Field1	1



1

DASHBOARD TICKETS STATISTICS CUSTOMERS ADMIN

QueueView: Junk

My Queues (0) Junk (1) Raw (1)

All tickets 1 Available tickets 1

Bulk

	TICKET#	AGE	FROM / SUBJECT	STATE	LOCKED	QUEUE	OWNER	CUSTOMERID
<input type="checkbox"/>	2012021510000016	10 m	test@test.com Testing Ticket	open	unlock	Junk	My User	

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Figure: Field1 in Ticket Overview Small Screen.

This setting affects: Escalation View, Locked View, Queue View, Responsible View, Status View and Watch View screens.

10.2.11. Setting a Default Value by a Ticket Event Module

A ticket event (e.g. TicketCreate) can trigger a value set for a certain field, if the field does not have a value yet.

Note

By using this method this default value, is not seen in the edit screen (e.g. New Phone Ticket) since the value is set after the creation of the ticket.

To activate this feature it is necessary to enable the following setting: "Ticket::EventModulePost###TicketDynamicFieldDefault".

Example 4.27. Activate Field1 in TicketCreate event.

- *Group:* Ticket
- *Sub-group:* Core::TicketDynamicFieldDefault
- *Setting:* Ticket::TicketDynamicFieldDefault###Element1

Note

This configuration can be set in any of the 16 Ticket::TicketDynamicFieldDefault###Element settings.

If more than 16 fields need to be set up a custom XML file must be placed in `$OTRS_HOME/Kernel/Config/files` directory to extend this feature.

- *Value:*

Key	Content
Event	TicketCreate
Name	Field1
Value	a new value

10.2.12. Set a Default Value by User Preferences

The dynamic field default value can be overwritten with a user defined value stored in the user preferences.

Using this method, the default value of the field will be shown on any screen where the field is activated (if the field does not have already a different value).

The "sysconfig" setting "PreferencesGroups###DynamicField" located in the "Frontend::Agent::Preferences" Sub-group. This setting is an example of how to create an entry in the User Preferences screen to set an exclusive dynamic field default value for the selected user. The limitation of this setting is that it only permits the use of one dynamic field. If two or more fields will use this feature, it is necessary to create a custom XML configuration file to add more settings similar to this one.

Note

Remember, if more settings are added in a new XML each setting name needs to be unique in the system and different than "PreferencesGroups###DynamicField". for example: PreferencesGroups###101-DynamicField-Field1, PreferencesGroups###102-DynamicField-Field2, PreferencesGroups###My-Field1, PreferencesGroups###My-Field2, etc.

Example 4.28. Activate Field1 in the User preferences.

- *Group:* Ticket
- *Sub-group:* Frontend::Agent::Preferences
- *Setting:* PreferencesGroups###101-DynamicField-Field1
- *Value:*

Key	Content
Event	TicketCreate
Active	1
Block	Input
Column	Other Settings
Data:	<code>\$Env{"UserDynamicField_Field1"}</code>
Key:	My Field 1
Label:	Default value for: My Field 1
Module:	Kernel::Output::HTML::PreferencesGeneric
PrefKey:	UserDynamicField_Field1
Prio:	7000

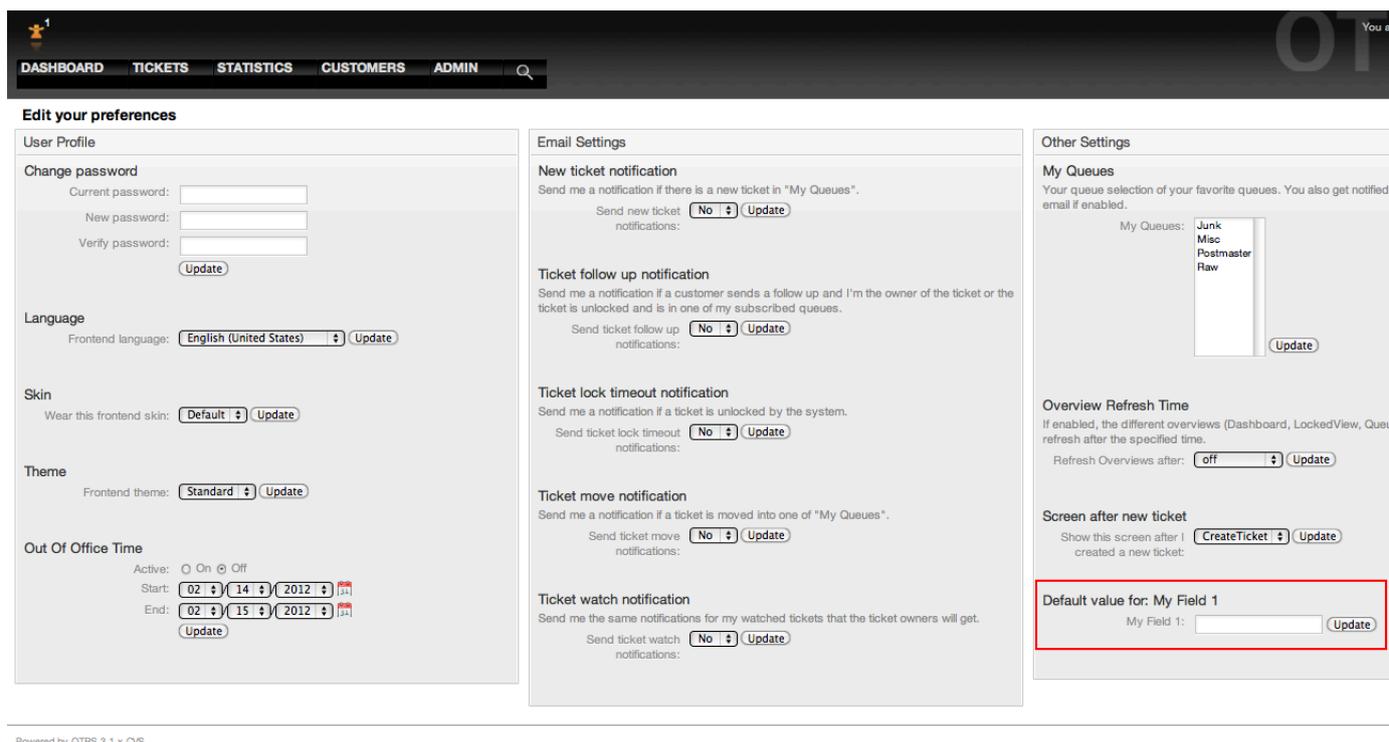


Figure: Field1 in User preferences screen.

11. Generic Interface

The OTRS Generic Interface consists of a multiple layer framework that lets OTRS communicate with other systems via a web service. This communication could be bi-directional:

- *OTRS as Provider:* OTRS acts as a server listening to requests from the External System, processing the information, performing the requested action, and answering the request.
- *OTRS as Requester:* OTRS acts as a client collecting information, sending the request to the Remote System, and waiting for the response.

11.1. Generic Interface Layers

Generic Interface is build based on a layer model, to be flexible and easy to customize.

A layer is a set of files, which control how the Generic Interface performs different parts of a web service. Using the right configuration, one can build different web services for different External Systems without creating new modules.

Note

If the Remote System does not support the current bundled modules of the Generic Interface, special modules need to be developed for that specific web service.

The list of provided Generic Interface modules shipped with OTRS will be updated and increased over time.

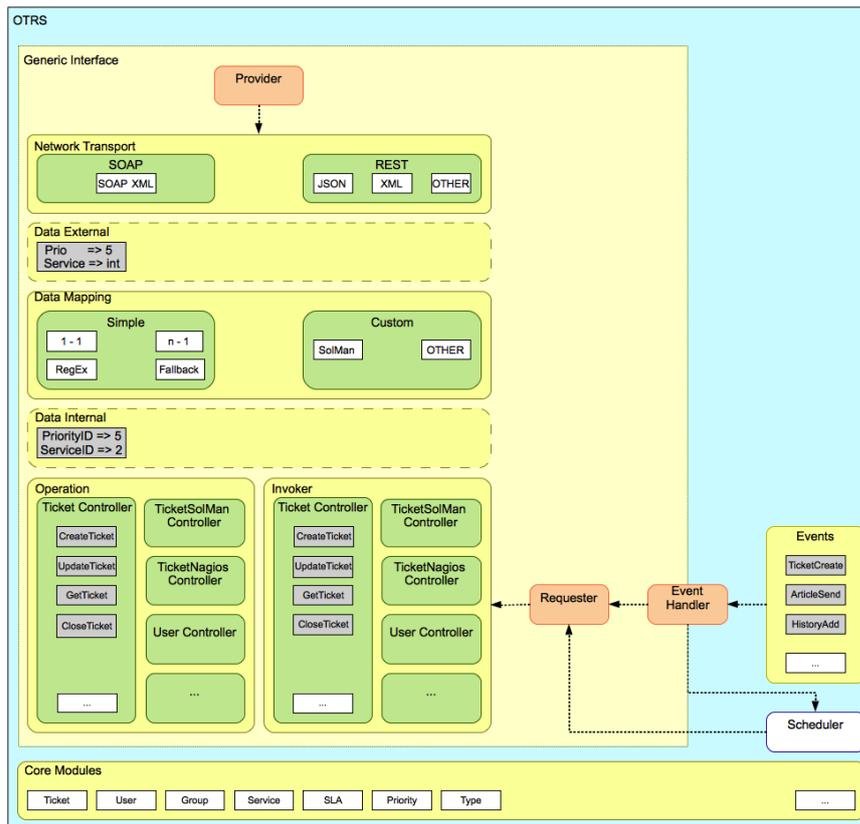


Figure: The graphical interface layers.

11.1.1. Network Transport

This layer is responsible for the correct communication with the Remote System. It receives requests and generates responses when acting as provider, and generates requests and receives responses when acting as requester.

Provider communication is handled by a new web server handle called "nph-genericinterface.pl".

Requester communication could be initiated during an event triggered by a Generic Interface module or any other OTRS module. This event is caught by the event handler and depending on the configuration the event will be processed directly by the requester object or delegated to the Scheduler (a separated daemon designed to process tasks asynchronously).

11.1.2. Data Mapping

This layer is responsible for translating data structures between OTRS and the Remote System (data internal and data external layers). Usually Remote Systems have different data structures than OTRS (including different values and names for those values), and here resides the importance of the layer to change the received information into something that OTRS can understand and on the opposite way send the information to each Remote System using their data dictionaries.

Example: "Priority" (OTRS) might be called "Prio" in a remote system and it could be that value "1 Low" (OTRS) should be mapped to "Information" on the remote system.

11.1.3. Controller

Controllers are collections of similar Operations or Invokers. For example, a Ticket controller might contain several standard ticket operations. Custom controllers can be implemented, for example a "TicketExternalCompany" controller which may contain similar functions as the standard Ticket controller, but with a different data interface, or function names (to adapt to the Remote System function names) or complete different code.

One application for Generic Interface could be to synchronize information with one Remote System that only can talk with another Remote System of the same kind. In this case new controllers needs to be developed and the Operations and Invokers has to emulate the Remote System behavior in such way that the interface that OTRS exposes is similar to the Remote System's interface.

11.1.4. Operation (OTRS as a provider)

An Operation is a single action that can be performed within OTRS. All operations have the same programming interface, they receive the data into one specific parameter, and return a data structure with a success status, potential error message and returning data.

Normally operations uses the already mapped data (internal) to call core modules and perform actions in OTRS like: Create a Ticket, Update a User, Invalidate a Queue, Send a Notification, etc. An operation has full access to the OTRS API to perform the action.

11.1.5. Invoker (OTRS as a requester)

An Invoker is an action that OTRS performs against a Remote System. Invokers use the OTRS Core modules to process and collect the needed information to create the request. When the information is ready it has to be mapped to the Remote System format in order to be sent to the Remote System, that will process the information execute the action and send the response back, to either process the success or handle errors.

11.2. Generic Interface Communication Flow

The Generic Interface has a defined flow to perform actions as a provider and as a requester.

These flows are described below:

11.2.1. OTRS as Provider

11.2.1.1. Remote Request:

1. HTTP request

- OTRS receives HTTP request and passes it through the layers.
- The provider module is in charge to execute and control these actions.

2. Network Transport

- The network transport module decodes the data payload and separates the operation name from the rest of the data.
- The operation name and the operation data are returned to the provider.

3. Data External

- Data as sent from the remote system (This is not a module-based layer).

4. Mapping

- The data is transformed from the External System format to the OTRS internal format as specified in the mapping configuration for this operation (Mapping for incoming request data).
- The already transformed data is returned to the provider.

5. *Data Internal*

- Data as transformed and prepared to be passed to the operation (This is not a module based layer).

6. Operation

- Receives and validates data.
- Performs user access control.
- Executes the action.

11.2.1.2. OTRS Response:

1. Operation

- Returns result data to the provider.

2. *Data Internal*

- Data as returned from operation.

3. Mapping

- The data is transformed back to the Remote system format as specified in the mapping configuration (Mapping for outgoing response data).
- The already transformed data is returned to the provider.

4. *Data external*

- Data as transformed and prepared to be passed to Network Transport as response.

5. Network Transport

- Receives the data already in the Remote System format.
- Constructs a valid response for this network transport type.

6. HTTP response

- The response is sent back to the web service client.
- In the case of an error, an error response is sent to the remote system (e.g. SOAP fault, HTTP error, etc).

11.2.2. OTRS as Requester

11.2.2.1. OTRS Request:

1. Event Trigger Handler

- Based on the web service configuration determines if the request will be synchronous or asynchronous.
 - Synchronous
 - A direct call to the Requester is made in order to create a new request and to pass it through the layers.
 - Asynchronous
 - Create a new Generic Interface (Requester) task for the OTRS Scheduler (by delegating the request execution to the Scheduler, the user experience could be highly improved, otherwise all the time needed to prepare the request and the remote execution will be added to the OTRS Events that trigger those requests).
 - In its next cycle the Scheduler process reads the new task and creates a call to the Requester that will create a new request and then passes it through the layers.

2. Invoker

- Receives data from the event.
- Validates received data (if needed).
- Call core modules to complement the data (if needed).
- Return the request data structure or send a Stop Communication signal to the requester, to gracefully cancel the request.

3. *Data Internal*

- Data as passed from the invoker (This is not a module based layer).

4. Mapping

- The data is transformed to the Remote system format as specified in the mapping configuration (Mapping for outgoing response data).
- The already transformed data is returned to the requester.

5. *Data External*

- Data as transformed and prepared for sending to the remote system.

6. Network Transport

- Receives the remote operation name and the data already transformed to the Remote System format from the requester.
- Constructs a valid request for the network transport.
- Sends the request to the remote system and waits for the response

11.2.2.2. Remote Response:

1. Network transport

- Receives the response and decodes the data payload.
- Returns the data to the requester.

2. *Data External*

- Data as received from the Remote System

3. Mapping

- The data is transformed from the External System format to the OTRS internal format as specified in the mapping configuration for this operation (Mapping for incoming response data).
- The already transformed data is returned to the requester.

4. Data Internal

- Data as transformed and ready to be passed back to the requester.

5. Invoker

- Receives return data.
- Handles the data as needed specifically by each Invoker (included error handling if any).
- Return the Invoker result and data to the Requester.

6. Event Handler or Scheduler

- Receives the data from the Requester, in the case of the Scheduler this data might contain information to Re-Schedule the task immediately or in the future.

11.3. Web Services

A Web Service is a communication method between two systems, in our case OTRS and a Remote System.

The heart of the Web Service is its configuration, where it is defined what actions the web service can perform internally (Operation), what actions the OTRS request can perform Remote System (Invokers), how data is converted from one system to the other (Mapping), and over which protocol the communication will take place (Transport)

The Generic Interface is the framework that makes it possible to create Web Services for OTRS in a pre-defined way, using already made building blocks that are independent from each other and interchangeable.

11.4. Web Service Graphical Interface

The web service graphical user interface (GUI) is a tool that allows to construct complex web service configurations in a user friendly and convenient interface. It allows to:

- Create and Delete web services.
- Import and Export configurations (in YAML file format) for existing web services.
- View, Revert and Export old configurations for existing web services in the Web Service History screen.
- Track all communication logs for each web service in the Debugger screen.

11.4.1. Web Service Overview

The "Web Services" link in the main screen of Admin Interface (in the System Administration box) leads to the web services overview screen, where you are able to manage your

web service configurations. You can add new web services or change the configuration of the existing ones from this screen.

Every web service configuration screen has in the upper part of the screen a "bread crumbs" style navigation path. This navigation path is useful to know exactly in which part of the web service configuration we are, and also enables the user to jump back to any part of the configuration process at any time (this action will not save any changes).

Note

To create a new web service, press the button "Add web service", and provide the required information.

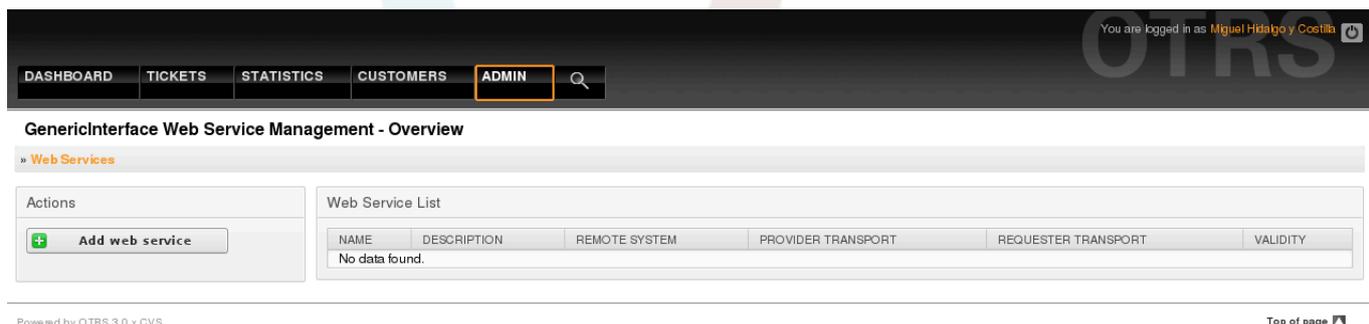


Figure: Web services overview.

11.4.2. Web Service Add

The only required field in this part is the web service "Name" that needs to be unique in the system and can not be left empty. Other fields are also necessary for the configuration like the "Debug Threshold" and "Validity" but these fields are already populated with the default value for each list.

The default value for "Debug Threshold" is "debug". When configured in this manner all communication logs are registered in the database. Each subsequent Debug Threshold value is more restrictive and discards communication logs of lower order than the one set in the system.

Debug Threshold levels (from lower to upper)

- Debug

- Info
- Notice
- Error

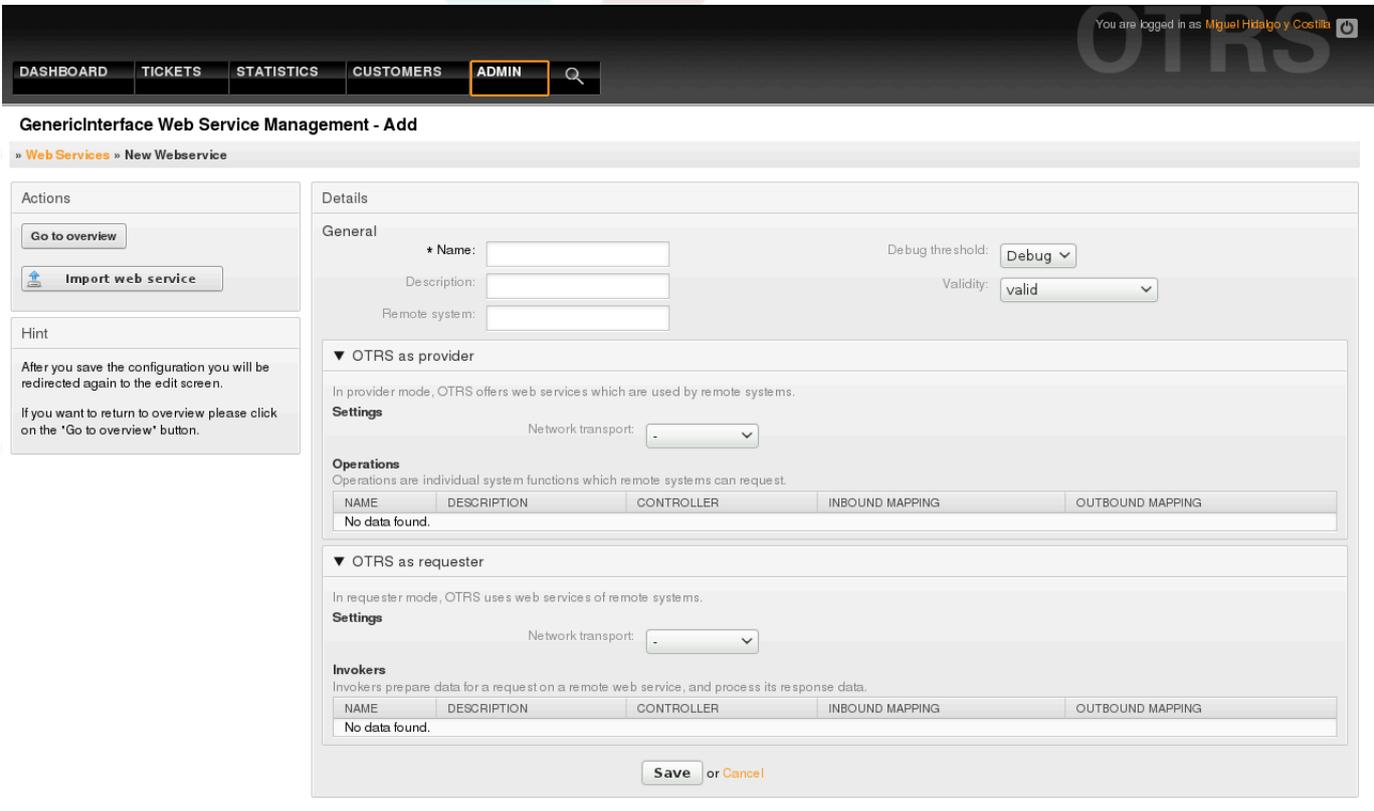
It is also possible to define the network transport protocol for "OTRS as Provider" and "OTRS as requester".

Click on the "Save" button to register the new web service in the database or click "Cancel" to discard this operation. You will now be returned to the web service overview screen.

If you already have a web service configuration file in YAML format you can click on the "Import web service" button on the left side of the screen. For more information on importing web services please check the next section "Web Service Change".

Note

To change or add more details to a web service, click on the web service name in the web service overview screen.



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Figure: Web services add.

11.4.3. Web Service Change

On this screen you have a complete set of functions to handle every part of a web service. On the left side in the action column you can find some buttons that allows you to perform all possible actions on a web service:

- Clone web service.
- Export web service.

- Import web service.
- Configuration History.
- Delete web service.
- Debugger.

Note

"Configuration history" and "Debugger" will lead you to different screens.

11.4.3.1. Web Service Clone

To clone a web service, you need to click on the "Clone web service" button. A dialog will be shown where you can use the default name or set a new name for the (cloned) web service.

Note

Remember that the name of the web service must be unique within the system.

Click on "Clone" button to create the web service clone or "Cancel" to close the dialog.

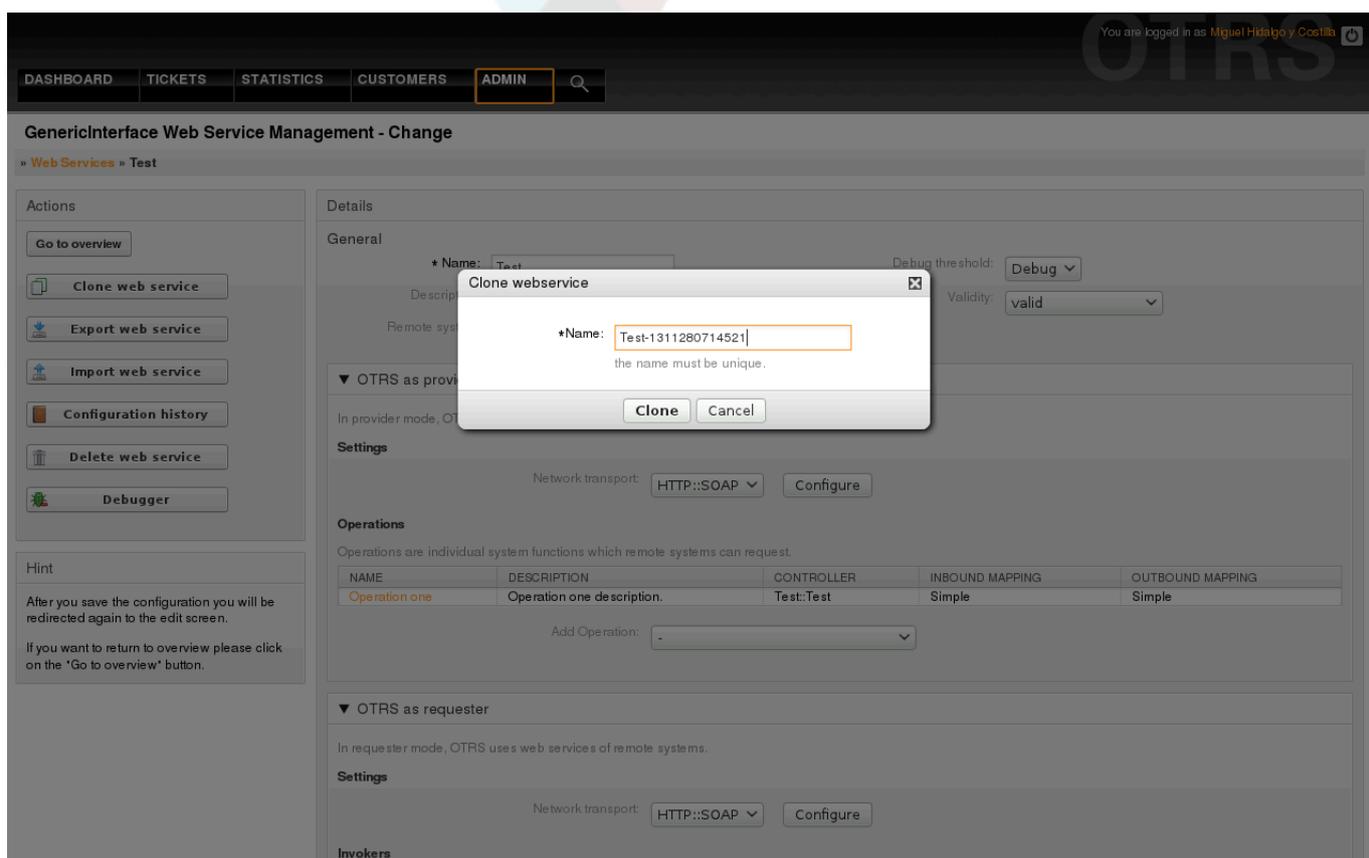


Figure: Web service clone.

11.4.3.2. Web Service Export

The "Export web service" button gives you the opportunity to dump the configuration of the current web service into a YAML file, to download it and to store it on your file system. This can be specially useful if you want to migrate the web service from one server to another, for example from a testing environment to a production system.

Warning

All stored passwords in the web service configuration will be exported in plain text format.

Right after clicking the "Export web service" button a save dialog of your browser will appear, just like when you click on a file download link on a web page.

Note

Each browser on each operating system has its own save dialog screen and style. Depending on the browser and its configuration it is possible that no dialog is shown and the file is saved to a default directory on your file system. Please check your browser documentation for more specific instructions if needed.

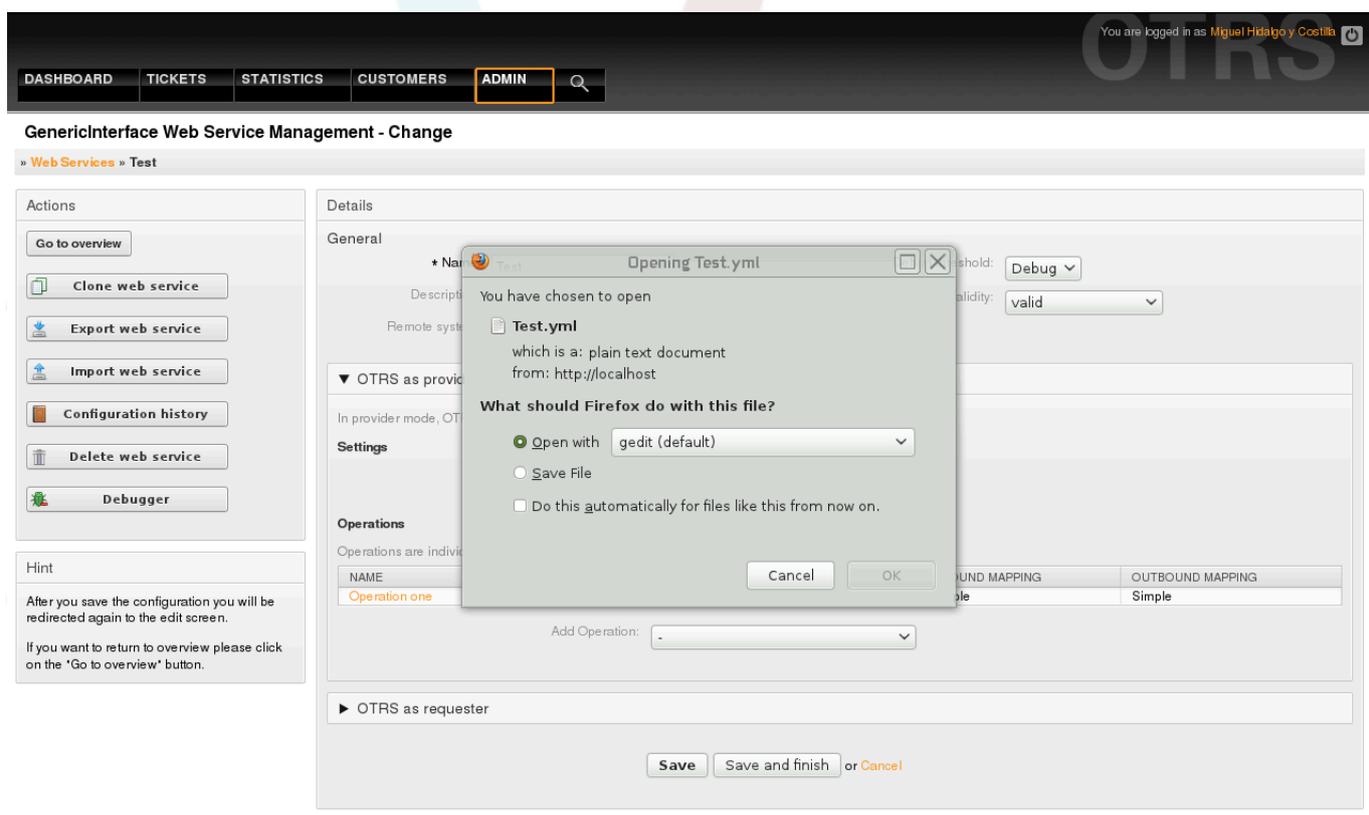


Figure: Web services export.

11.4.3.3. Web Service Import

A valid web service configuration YAML file is required to use the import web service feature. Click on the "Import web service" button, browse for the configuration file or provide the complete path in the input box.

Click "Import" button to create a new web service from a file or "Cancel" to close the dialog.

Note

The web service name will be taken from the configuration file name (e.g. if the file name is MyWebservice.yml the resulting web service will be named MyWeb-

service). If a web service is registered in the system with the same name as the web service that you want to import, the system will lead you to the web service change screen to let you change the name of the imported web service.

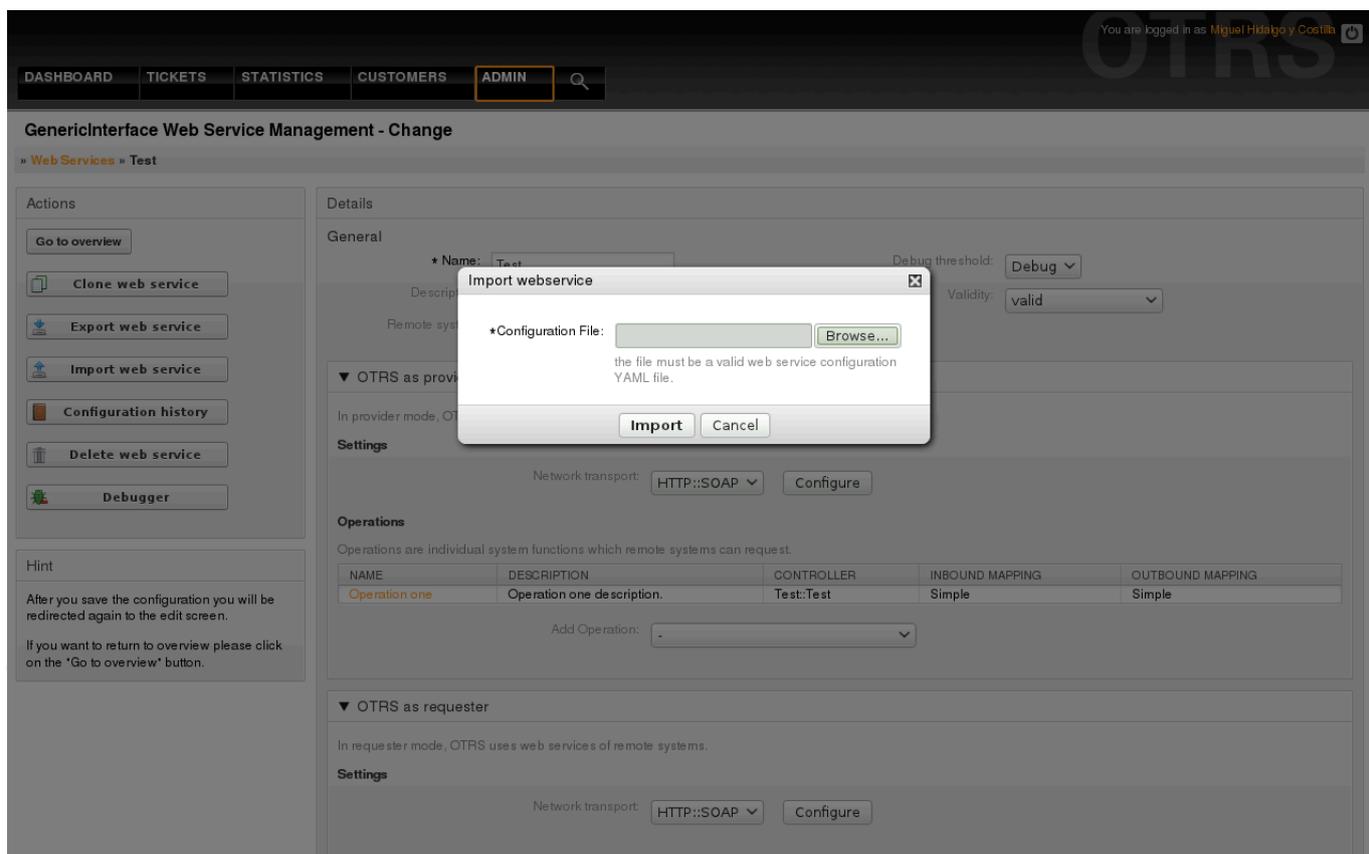


Figure: Web services import.

11.4.3.4. Web Service History

Every change to the web service configuration creates a new entry in the web service history (as a journal). The web service history screen displays a list of all configuration versions for a web service. Each row (version) in the "Configuration History List" represents a single revision in the web service history.

Click on one of the rows to show the whole configuration as it was on that particular date / time. The configuration will be shown in the "History details" section of this screen. Here you are also able to export the selected web service configuration version or to restore that version into the current web service configuration.

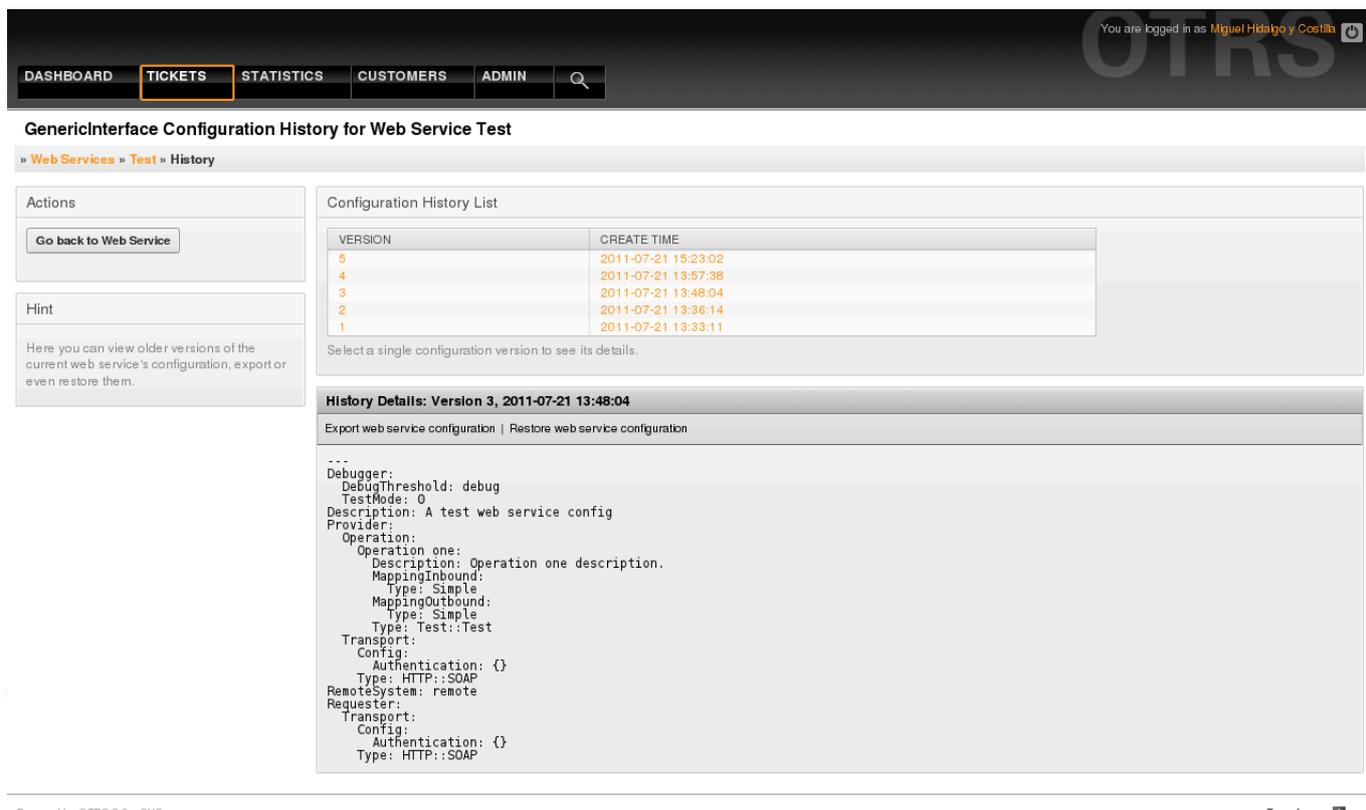
The "Export web service configuration" behaves exactly as the "Export web service" feature in the web service change screen. For more information refer to that section.

If changes to the current web service configuration do not work as expected and it is not easy to revert the changes manually, you can click on the "Revert web service configuration" button. This will open a dialog to ask you if you are sure to revert the web service configuration. Click "Revert web service configuration" in this dialog to replace the current configuration with the selected version, or click "Cancel" to close the dialog.

Warning

Remember that any passwords stored in the web service configuration will be exported in plain text format.

Please be careful when you restore a configuration because this the process is irreversible.



The screenshot shows the OTRS web interface. At the top right, it says "You are logged in as Miguel Hidalgo y Costilla". The navigation menu includes DASHBOARD, TICKETS, STATISTICS, CUSTOMERS, and ADMIN. The main heading is "GenericInterface Configuration History for Web Service Test". Below this, there's a breadcrumb "» Web Services » Test » History".

On the left, there's an "Actions" section with a "Go back to Web Service" button and a "Hint" section stating: "Here you can view older versions of the current web service's configuration, export or even restore them."

The main content area is titled "Configuration History List" and contains a table with two columns: "VERSION" and "CREATE TIME".

VERSION	CREATE TIME
5	2011-07-21 15:23:02
4	2011-07-21 13:57:38
3	2011-07-21 13:48:04
2	2011-07-21 13:36:14
1	2011-07-21 13:33:11

Below the table, it says "Select a single configuration version to see its details." Below that, the "History Details: Version 3, 2011-07-21 13:48:04" section is shown, containing configuration parameters like Debugger, Description, Provider, Operation, Transport, and Config.

Figure: Web service history.

11.4.3.5. Web Service Delete

Sometimes it is necessary to delete a web service completely. To do this you can press on the "Delete web service" button and a new dialog will appear asking for confirmation.

Click on "Delete" to confirm the removal of the web service or on "Cancel" to close the dialog.

Warning

Deleting a web service can't be undone, please be careful when deleting a web service.

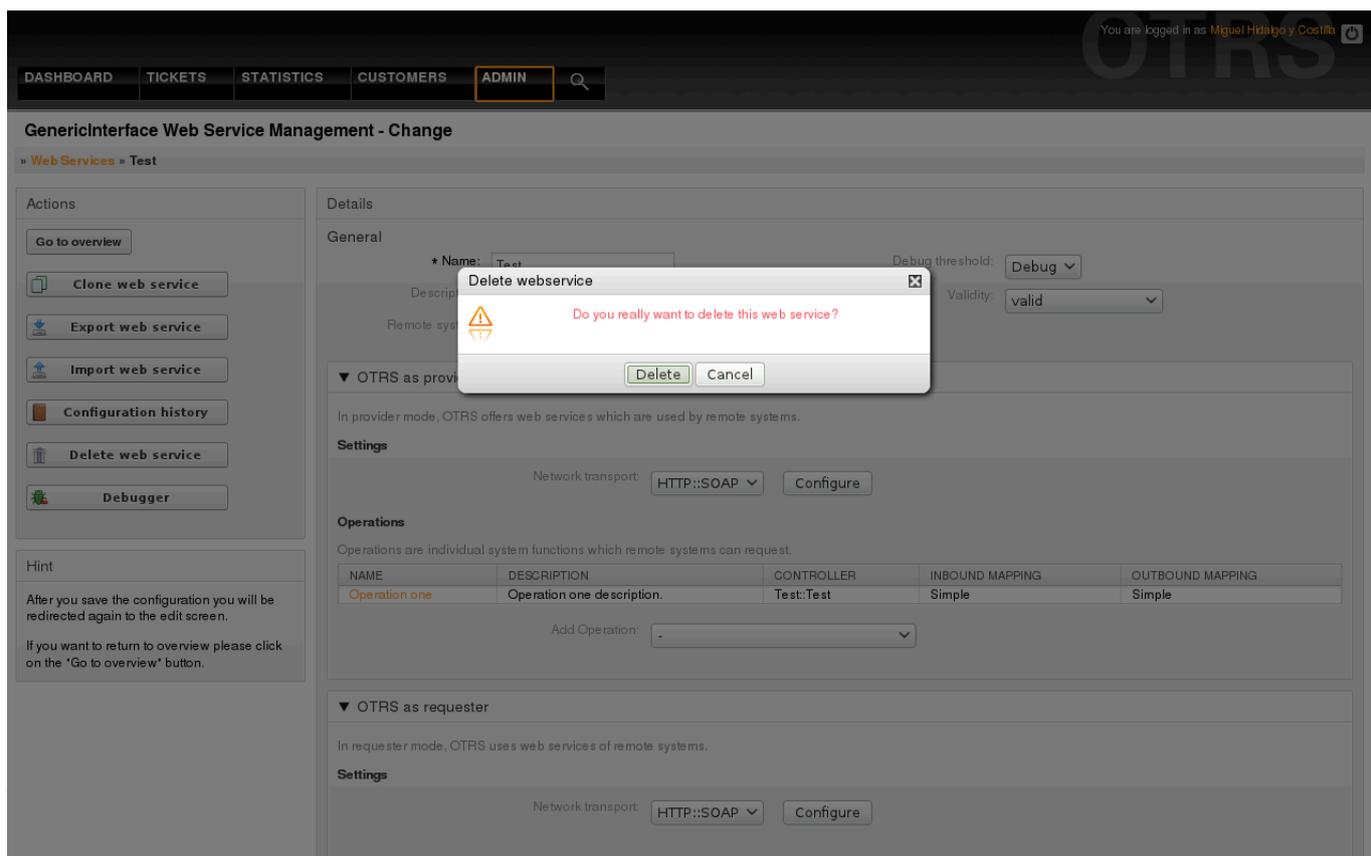


Figure: Web service delete.

11.4.3.6. Web Service Debugger

The Debugger stores the log of a web service. In the debugger screen you can track all the web service communications for either provider or requester types.

When this screen is shown the request list starts to load. After the list is fully filled you can choose one of the rows (that means a communication sequence) to check its details. This details will appear in a box below.

You can narrow the communication list using the filter on the right part of the screen. You can filter by:

- Communication type (provider or requester)
- Date: before and / or after a particular date
- The remote IP Address
- A combination of all.

After filter settings are set, push the "Refresh" button and a new list will be displayed meeting your search criteria.

Note

Depending on the search criteria for the filters the new list could return no results.

On the left part of the screen under the action column you can select "Go back to the web service" or clear the debugger log by pushing the "Clear" button. This will open a dialog that ask you to confirm erasing of the log. Click "Clear" in the dialog button to perform the action or click on "Cancel" to close this dialog.

In the "Request details" section you can see all the details for the selected communication. Here you can track the complete flow and check for possible errors or confirm success responses.

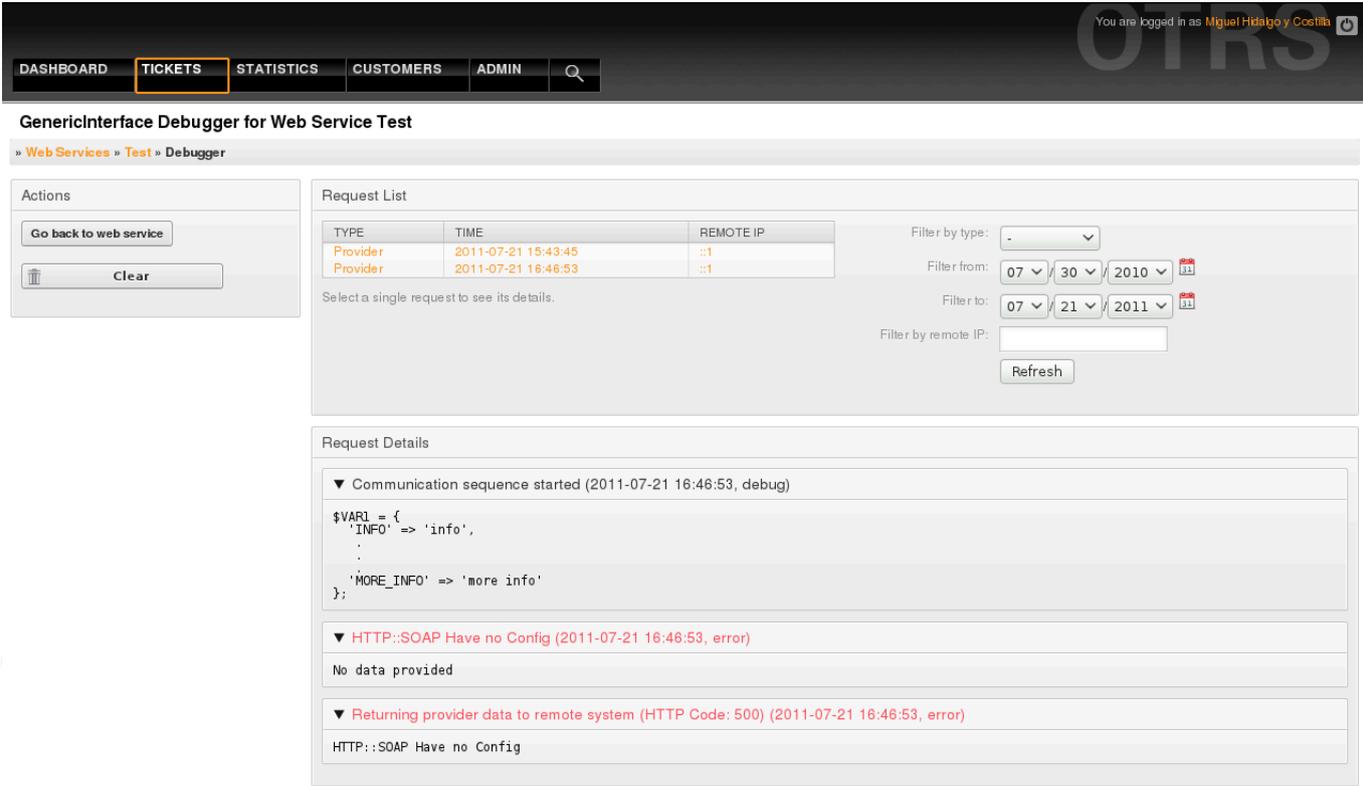


Figure: Web service debugger.

11.4.3.7. Web Service Configuration Change

Returning to the web service change screen, now we are going to review the right side of it. Here we have the possibility to modify all the general data for a web service such as name, description, debug threshold, etc. Also there are two more sections below that allows us to modify specific parameters for communication types "OTRS as Provider" and "OTRS as Requester".

The web service configuration needs to be saved on each level. This means that if a setting is changed, links to other, deeper parts of the configuration will be disabled forcing you to save the current configuration level. After saving the disabled links will be re-enabled again allowing you to continue with the configuration.

On the "OTRS as provider" section it is possible to set or configure the network transport protocol. Only network transport back-ends that are registered are shown on the list. To configure the network transport click on the "Configure" button. It is also possible to add new operations in this box. To do this select one of the available operations from the "Add Operation" list. This will lead you to the operation configuration screen. After saving the new operation it will be listed in the table above.

"OTRS as requester" is very similar to the previous one, but instead of "operations" you can add invokers here.

Click the "Save" button to save and continue configuring the web service, "Save and finish" to save and return to the web service overview screen, or "Cancel" to discard current configuration level changes and return to web service overview screen.

GenericInterface Web Service Management - Change

» Web Services » Test

Actions

[Go to overview](#)

[Clone web service](#)

[Export web service](#)

[Import web service](#)

[Configuration history](#)

[Delete web service](#)

[Debugger](#)

Hint

After you save the configuration you will be redirected again to the edit screen.

If you want to return to overview please click on the "Go to overview" button.

Details

General

* Name: Debug threshold:

Description: Validity:

Remote system:

▼ OTRS as provider

In provider mode, OTRS offers web services which are used by remote systems.

Settings

Network transport: [Configure](#)

Operations

Operations are individual system functions which remote systems can request.

NAME	DESCRIPTION	CONTROLLER	INBOUND MAPPING	OUTBOUND MAPPING
Operation one	Operation one description.	Test:Test	Simple	Simple

Add Operation:

▼ OTRS as requester

In requester mode, OTRS uses web services of remote systems.

Settings

Network transport: [Configure](#)

Invokers

Invokers prepare data for a request on a remote web service, and process its response data.

NAME	DESCRIPTION	CONTROLLER	INBOUND MAPPING	OUTBOUND MAPPING
Invoker one	Invoker one description	Test:Test	Simple	Simple

Add Invoker:

[Save](#) [Save and finish](#) or [Cancel](#)

Figure: Web services change.

Note

Like the other Generic Interface configuration screens such as Network Transport, Operation, Invoker and Mapping, the initial configuration (add) screen will only present two options: "Save" and "Cancel". If the configuration is re-visited, a new option "Save and Finish" will appear. The behavior of this feature is defined below.

"Save" will store the current configuration level in the database and it will return to the previous screen to review your changes or to configure deeper settings.

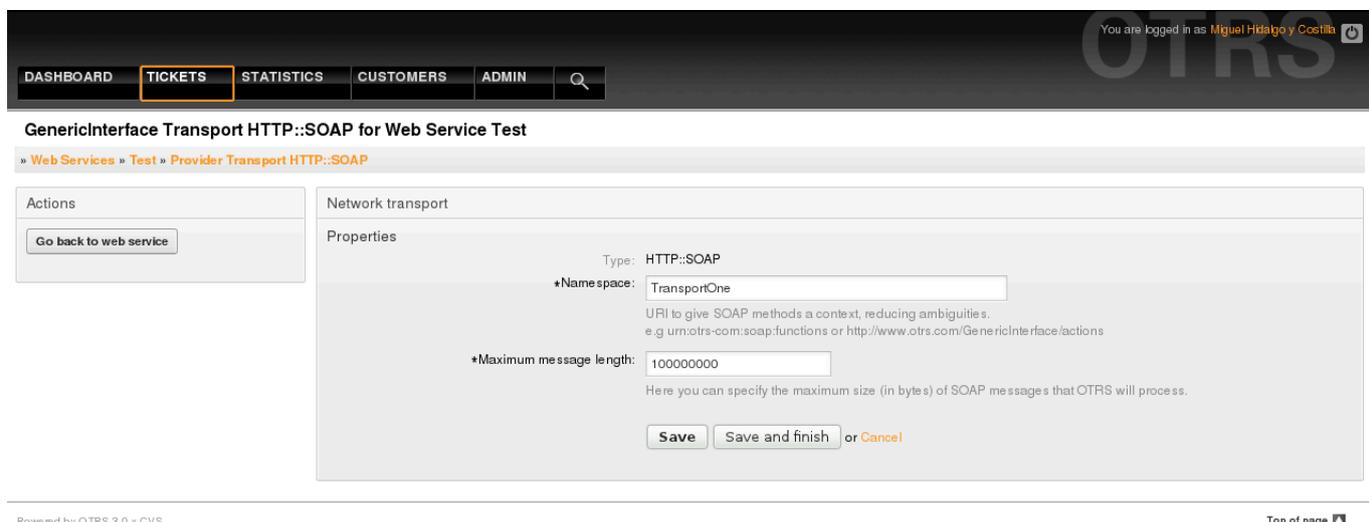
"Save and Finish" will store the current configuration level in the database and it will return to the previous screen in the configuration hierarchy (to the immediate upper configuration level).

"Cancel" will discard any configuration change to the current configuration level and will return to the previous screen in the configuration hierarchy.

11.4.3.7.1. Web Service Provider Network Transport

In future the list of available network transports will be increased. Currently only the "HTTP::SOAP" transport is available. Each transport has different configuration options to setup and they might use different frontend modules to configure it, but mostly they should look similar to the "HTTP::SOAP" transport configuration module.

It is quite simple to configure the "HTTP::SOAP" protocol as provider. There are only two settings: "Namespace" and "Maximum message length". These fields are required. The first one is a URI to give SOAP methods a context, reducing ambiguities, and the second one is a field where you can specify the maximum size (in bytes) for SOAP messages that OTRS will process.



The screenshot shows the OTRS web interface. At the top right, it says "You are logged in as Miguel Hidalgo y Costilla". The navigation menu includes DASHBOARD, TICKETS, STATISTICS, CUSTOMERS, and ADMIN. The main heading is "GenericInterface Transport HTTP::SOAP for Web Service Test". Below this, there's a breadcrumb trail: "» Web Services » Test » Provider Transport HTTP::SOAP". On the left, there's an "Actions" box with a "Go back to web service" button. The main area is titled "Network transport" and contains a "Properties" section. The "Type" is set to "HTTP::SOAP". The "*Name space" is "TransportOne", with a note: "URI to give SOAP methods a context, reducing ambiguities. e.g. urn:otrs-com:soap:functions or http://www.otrs.com/GenericInterface/actions". The "*Maximum message length" is "100000000", with a note: "Here you can specify the maximum size (in bytes) of SOAP messages that OTRS will process." At the bottom of the form are three buttons: "Save", "Save and finish", and "Cancel".

Powered by OTRS 3.0.x CVS

Top of page

Figure: Web service provider network transport.

11.4.3.7.2. Web Service Operation

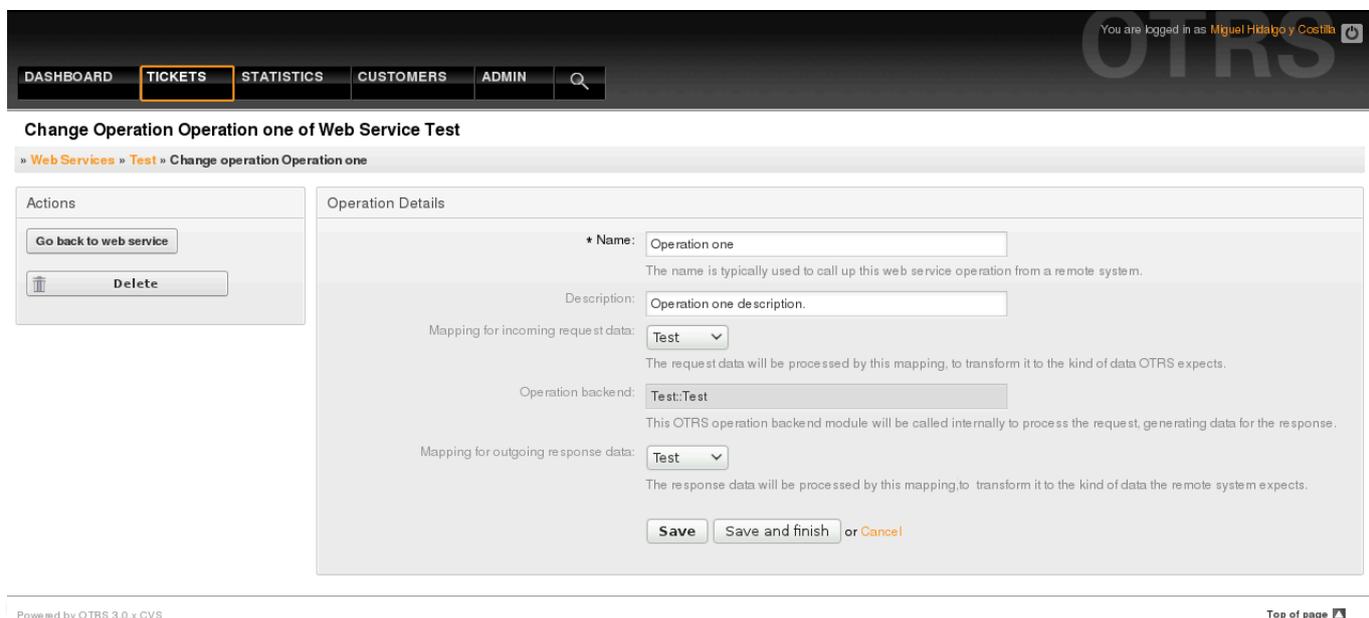
The actions that can be performed when you are using OTRS as a provider are called "Operations". Each operation belongs to a controller. Controllers are collections of operations or invokers, normally operations from the same controller need similar settings and share the same configuration dialog. But each operation can have independent configuration dialogues if needed.

Name, Description, Backend, and Mappings are fields that normally appear on every operation, other special fields can appear in non default configuration dialogues to fulfill specific needs of the operation.

Normally there are two mapping configuration sections on each operation, one for the incoming data and another one for the outgoing data. You can choose different mapping types (backends) for each mapping direction, since their configuration is independent from each other and also independent from the operation backend. The normal and most common practice is that the operation uses the same mapping type in both cases (with inverted configuration). The complete mapping configuration is done in a separate screen which depends on the mapping type.

The operation backend is pre-populated and is not editable. You will see this parameter when you choose the operation on the web service edit screen. The field is only informative.

In the left part of the screen on the action column you have the options: "Go back to web service" (discarding all changes since the last save) and "Delete". If you click on the last one, a dialog will open and ask you if you like to remove the operation. Click on "Delete" button to confirm the removal of the operation and its configuration or "Cancel" to close the delete dialog.



The screenshot shows the OTRS web interface. At the top, there is a navigation menu with 'DASHBOARD', 'TICKETS', 'STATISTICS', 'CUSTOMERS', and 'ADMIN'. The 'TICKETS' menu item is highlighted. In the top right corner, it says 'You are logged in as Miguel Hidalgo y Costilla'. Below the navigation, the page title is 'Change Operation Operation one of Web Service Test'. The breadcrumb trail is '» Web Services » Test » Change operation Operation one'. On the left, there is an 'Actions' panel with two buttons: 'Go back to web service' and 'Delete'. The main area is titled 'Operation Details' and contains the following fields:

- Name:** Operation one (Text input field)
- Description:** Operation one description. (Text input field)
- Mapping for incoming request data:** Test (Dropdown menu)
- Operation backend:** Test:Test (Text input field)
- Mapping for outgoing response data:** Test (Dropdown menu)

At the bottom of the form, there are three buttons: 'Save', 'Save and finish', and 'Cancel'.

Figure: Web service operation.

11.4.3.7.3. Web Service Requester Network Transport

The network transport configuration for the requester is similar to the configuration for the provider. For the Requester "HTTP::SOAP" network transport there are more fields to be set.

Apart from the "Endpoint" (URI of the Remote System web service interface to accept requests) and "Namespace" which are required fields, you can also specify:

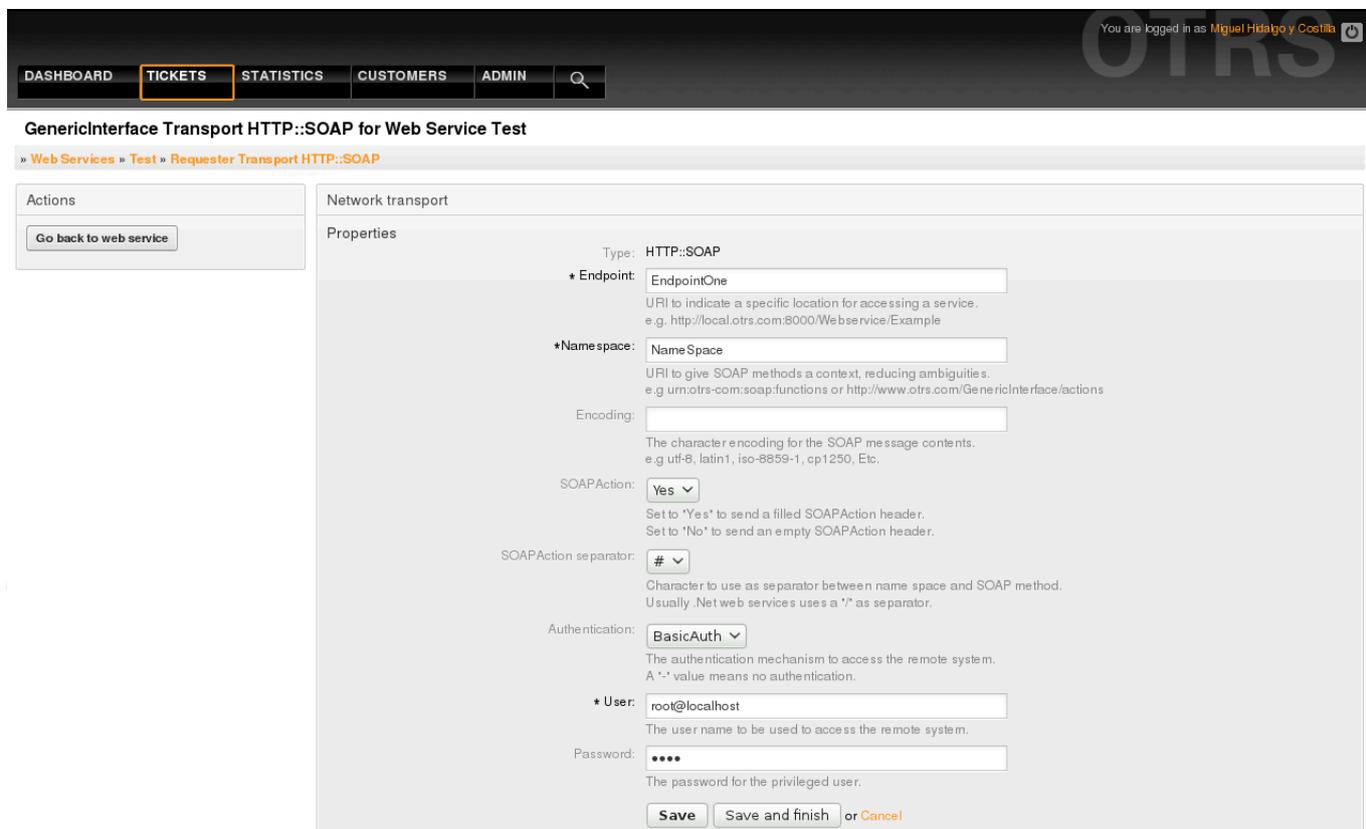
- Encoding (such as utf-8, latin1, iso-8859-1, cp1250, etc) for the SOAP message.
- SOAPAction Header: you can use this to send an empty or filled SOAPAction header. Set to "No" and the SOAPAction header on the SOAP message will be an empty string, or set to "Yes" to send the soap action in Namespace#Action format and define the separator (typically "/" for .Net web services and "#" for the rest).
- Authentication: to set the authentication mechanism, set to "-" to not use any authentication or select one from the list and the detail fields will appear.

Note

Currently only the "BasicAuth" (HTTP) authentication mechanism is implemented. You can decide whether or not to use it depending on the Remote System configuration. If used, you must provide the User Name and the Password to access the remote system.

Warning

If you supply a password for authentication and after you export the web service to a YAML file this password will be revealed and will be written into a plain text string inside the YAML file. Be aware of it and take precautions if needed.



The screenshot shows the OTRS web interface for configuring a web service requester network transport. The breadcrumb trail is: » Web Services » Test » Requester Transport HTTP::SOAP. The main configuration area is titled "Network transport" and contains the following fields:

- Type:** HTTP::SOAP
- * Endpoint:** EndpointOne (with a text input field and a description: "URI to indicate a specific location for accessing a service. e.g. http://local.otrs.com:8000/Webservice/Example")
- * Namespace:** NameSpace (with a text input field and a description: "URI to give SOAP methods a context, reducing ambiguities. e.g. urn:otrs-com:soap:functions or http://www.otrs.com/GenericInterface/actions")
- Encoding:** (with a text input field and a description: "The character encoding for the SOAP message contents. e.g. utf-8, latin1, iso-8859-1, cp1250, Etc.")
- SOAPAction:** Yes (with a dropdown menu and a description: "Set to 'Yes' to send a filled SOAPAction header. Set to 'No' to send an empty SOAPAction header.")
- SOAPAction separator:** # (with a dropdown menu and a description: "Character to use as separator between name space and SOAP method. Usually .Net web services uses a '.' as separator.")
- Authentication:** BasicAuth (with a dropdown menu and a description: "The authentication mechanism to access the remote system. A '.' value means no authentication.")
- * User:** root@localhost (with a text input field and a description: "The user name to be used to access the remote system.")
- Password:** **** (with a text input field and a description: "The password for the privileged user.")

At the bottom of the configuration area, there are three buttons: "Save", "Save and finish", and "Cancel".

Figure: Web service requester network transport.

11.4.3.7.4. Web Service Invoker

The actions that can be performed when you are using OTRS as a requester are called "Invokers". Each invoker belongs to a controller (controllers are collections of operations or invokers). Usually invokers from the same controller need similar settings and share the same configuration dialogues. Each invoker can have independent configuration dialogues if needed.

Name, Description, Backend, and Mappings are fields that normally appear on every invoker. Additionally the list of event triggers and other special fields can appear on non default configuration dialogues to fulfill special needs of the invoker.

Normally there are two mapping configuration sections for each invoker, one for the incoming data and another one for the outgoing data. You can choose different mapping types (backends) for each mapping direction, since their configuration is independent from each other and also independent from the invoker backend. The normal and most common practice is that the invoker uses the same mapping type in both cases, with inverted configuration. The complete mapping configuration is done in a separate screen, which depends on the mapping type.

The invoker backend is pre-populated and can not be edited. You will see this parameter when you choose the invoker on the web service edit screen. The field is only informative.

Event triggers are events within OTRS such as "TicketCreate", "ArticleSend", etc. These can act as triggers to execute the invoker. Each invoker needs to have at least one event trigger registered, or the invoker will be useless, because it will never be called. The asynchronous property of the event triggers define if the OTRS process will handle the invoker or if it will be delegated to the Scheduler.

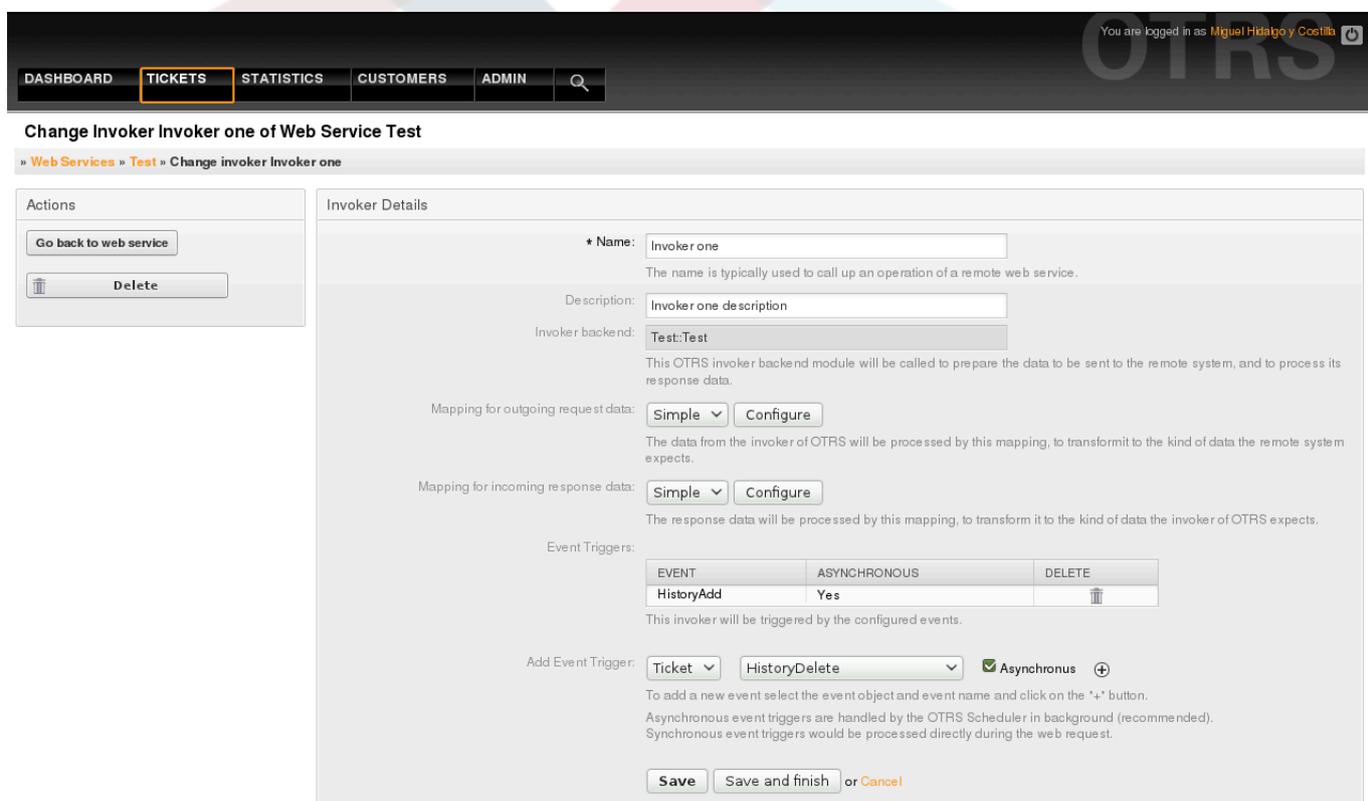
Note

The OTRS Scheduler is a separate process that executes tasks in the background. Using this the OTRS process itself will not be affected if the Remote System takes a long time to respond, if it is not available or if there are network problems. If you don't use the scheduler using web services can make OTRS slow or non-responsive. Therefore it is highly recommend to use asynchronous event triggers as often as possible.

To add an Event trigger, first select the event family from the first list, then the event name from the second list, then set the asynchronous property (if unchecked means that the event trigger will not be asynchronous) and finally click on the plus button. A new event trigger will be created and it will be listed on the invoker "Event Triggers" list.

To delete an Event trigger, simply locate the event trigger to be deleted in the "Event Triggers" list and click on the trash icon at the end of the row. This will open a dialog that asks you if you are sure to delete the event trigger. Click "Delete" to remove the event trigger from the list, or "Cancel" to close the dialog.

In the left part of the screen on the action column you have the options: "Go back to web service" (discarding all changes since the last save) and "Delete". If you click on the last one, a dialog will emerge and ask you if you like to remove the invoker. Click on the "Delete" button to confirm the removal of the invoker and its configuration or "Cancel" to close the delete dialog.



The screenshot shows the OTRS web interface. At the top, there is a navigation menu with 'DASHBOARD', 'TICKETS', 'STATISTICS', 'CUSTOMERS', and 'ADMIN'. The 'TICKETS' menu item is highlighted. The user is logged in as 'Miguel Hidalgo Costilla'. The main content area is titled 'Change Invoker Invoker one of Web Service Test'. Below this, there is a breadcrumb trail: '» Web Services » Test » Change invoker Invoker one'. On the left side, there is an 'Actions' panel with two buttons: 'Go back to web service' and 'Delete'. The main configuration area is titled 'Invoker Details' and contains the following fields and options:

- * Name:** Invoker one
- Description:** Invoker one description
- Invoker backend:** Test:Test
- Mapping for outgoing request data:** Simple (dropdown) with a 'Configure' button.
- Mapping for incoming response data:** Simple (dropdown) with a 'Configure' button.
- Event Triggers:** A table with columns for EVENT, ASYNCHRONOUS, and DELETE.

EVENT	ASYNCHRONOUS	DELETE
HistoryAdd	Yes	

Below the table, there is an 'Add Event Trigger' section with a dropdown menu set to 'Ticket', another dropdown set to 'HistoryDelete', and a checked 'Asynchronous' checkbox. At the bottom of the configuration area, there are three buttons: 'Save', 'Save and finish', and 'or Cancel'.

Figure: Web service invoker.

11.4.3.7.5. Web Service Mapping

There are cases where you need to transform the data from one format to another (map or change data structure), because normally a web service is used to interact with a Remote System, that is highly probable that is not another OTRS system and / or could not understand the OTRS data structures and values. In these cases some or all values have to be changed, and sometimes even the names of the values (keys) or even the complete structure, in order to match with the expected data on the other end. To accomplish this task the Generic Interface Mapping Layer exists.

Each Remote System has its own data structures and it is possible to create new mapping modules for each case (e.g. there is a customized mapping module for SAP Solution Manager shipped with OTRS), but it is not always necessary. The module Mapping::Simple should cover most of the mapping needs.

Note

When Mapping::Simple does not cover all mapping needs for a web service, a new mapping module should be created. To learn more about how to create new mapping modules please consult the OTRS Development Manual.

This module gives you the opportunity to set default values to map for each key or value for the whole communication data.

At the beginning of the screen you will see a general section where you can set the default rules that will apply for all the unmapped keys and values. There are three options available, these options are listed below:

- Keep (leave unchanged): doesn't touch the keys or values in any way.
- Ignore (drop key/value pair): when this is applied to the key it deletes the key and value, because when a key is deleted then in consequence its associated value is deleted too. When this is applied to the value, only the value is deleted, keeping the key, that now will be associated to an empty value.
- MapTo (use provided key or value as default): all keys and / or values without a defined map rule, will use this as default, when you select this option a new text field will appear to set this default.

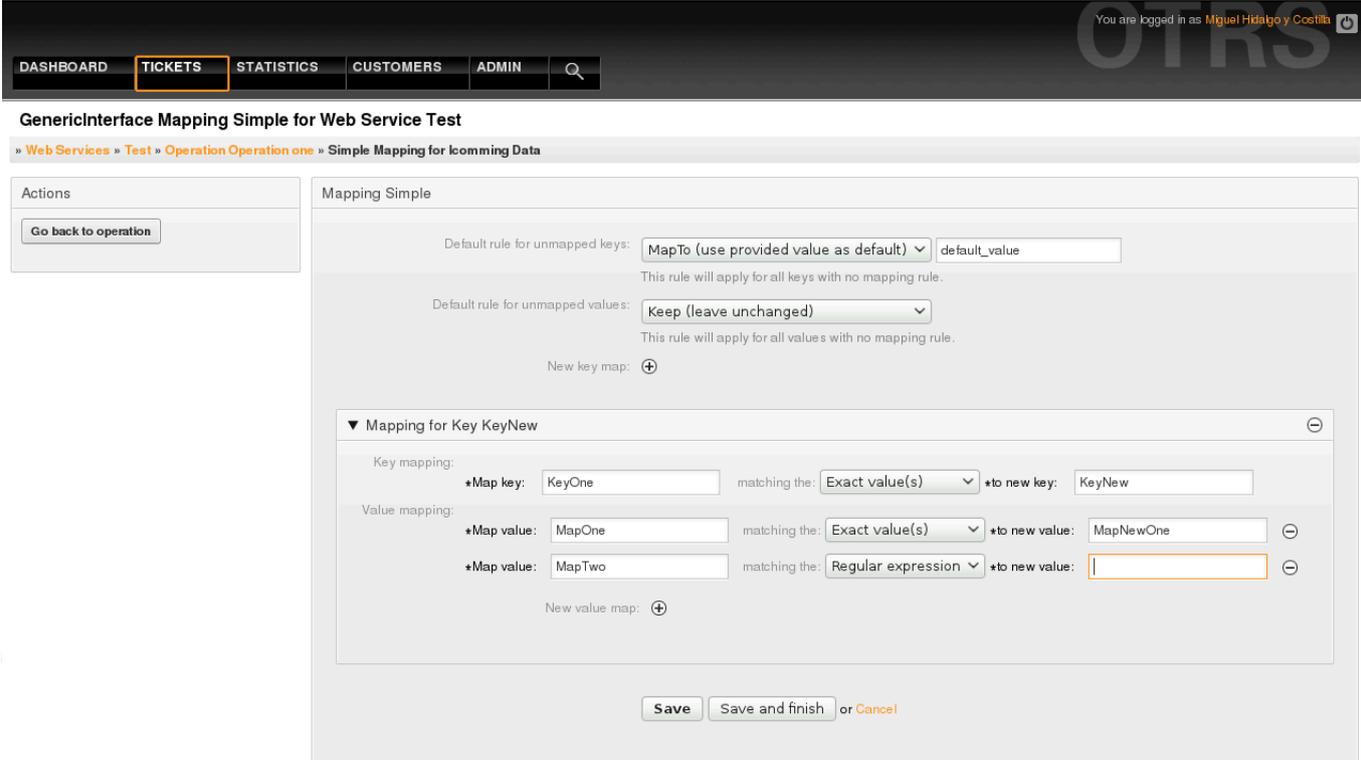
Clicking on the "+" button for new key map, will display a new box for a single mapping configuration. You can add as many key mappings as needed. Just click on the "+" button again and a new mapping box will appear below the existing one. From this mapping boxes you can define a map for a single key, with the next options:

- Exact value(s): the old key string will be changed to a new one if the old key matches exactly.
- Regular expression: The key string will be replaced following a regular expression rule.

Pressing the new value map "+" button will display a new row for a value map. Here it is also possible to define rules for each value to be mapped with the same options as for the key map (Exact value and Regular expression). You can add as many values to map as needed, and if you want to delete one of them, just click on the "-" button for each mapping value row.

Deleting the complete key mapping section (box) is possible, just push on the "-" button located on the up right corner of each box that you want to delete.

If you need to delete a complete mapping configuration: go back to the corresponding operation or invoker screen, look for the mapping direction that you select before and set its value to "-", and save the configuration to apply changes.



The screenshot shows the OTRS web interface for configuring web service mappings. At the top, there is a navigation menu with 'TICKETS' selected. The page title is 'GenericInterface Mapping Simple for Web Service Test'. Below the title, there is a breadcrumb trail: 'Web Services » Test » Operation Operation one » Simple Mapping for Incoming Data'. On the left, there is an 'Actions' panel with a 'Go back to operation' button. The main content area is titled 'Mapping Simple' and contains several configuration options:

- Default rule for unmapped keys: 'MapTo (use provided value as default)' with a text input 'default_value'.
- Default rule for unmapped values: 'Keep (leave unchanged)'.
- A 'New key map:' button with a plus icon.
- A section titled 'Mapping for Key KeyNew' with a minus icon, containing:
 - Key mapping: '+Map key:' 'KeyOne' matching the 'Exact value(s)' to new key: 'KeyNew'.
 - Value mapping: '+Map value:' 'MapOne' matching the 'Exact value(s)' to new value: 'MapNewOne'.
 - Value mapping: '+Map value:' 'MapTwo' matching the 'Regular expression' to new value: an empty text input.
 - 'New value map:' button with a plus icon.
- Buttons at the bottom: 'Save', 'Save and finish', and 'Cancel'.

Figure: Web service mapping.

11.5. Web Service Command Line Interface

The Command Line Interface (CLI) is a fast way to work with the web services. It consists of a set of tools that can be used to perform basic operations like:

- Create, Update, Read, List and Delete web services based on YAML files.
- Read the Debugger log, with filter options.

Note

You don't need to use the CLI to work with web services. Integrated into the Admin interface there is a complete set of screens to interact with every part of the web services. Please read the web service GUI section included in this manual.

11.5.1. Web Service Configuration

The "WebserviceConfig.pl" was developed in order to create basic, but fast and powerful tool to work with web service configurations. It gives you the ability to perform the following actions:

- Add: to create web services using a YAML file as the configuration source.
- Update: to change an existing web service, the configuration can be changed using a different or modified YAML file.

- Read: to get the current web service configuration displayed on the screen.
- List: to get a complete list of all the web services registered in system.
- Delete: to delete a web service from the system. Be careful when you use it, because this action can't be undone.

Warning

A web service READ operation will display all the configuration as plain text on the screen, including any stored passwords. Please be aware of this and take the needed precautions!

Example: Creating a new web service configuration:

```
shell> OTRS_HOME/bin/otrs.WebserviceConfig.pl -a write -n <webservice_name>
-f /path/to/yaml/file
```

Also you can use 'otrs.WebserviceConfig.pl' with following options:

- **-a read -i <webservice_id>** - To read a stored configuration.
- **-a write -n <webservice_name> -f /path/to/yaml/file** - To create a new web service.
- **-a write -i <webservice_id> -f /path/to/yaml/file** - To update a web service.
- **-a list** - To list available web services.
- **-a delete -i <webservice_id>** - To delete a web service.

11.5.2. Web Service Debugger

Another available tool via the command line interface is the "otrs.GenericInterfaceDebugRead.pl" script, which is an interface to search for web service debugger log entries.

Example: Searching for debugger log entries:

```
shell> bin/otrs.GenericInterfaceDebugRead.pl
```

Optional parameters can be used for the "otrs.GenericInterfaceDebugRead.pl" script:

- **-c** - to filter by Communication ID (md5sum format).
- **-t** - to filter by CommunicationType ('Provider' or 'Requester').
- **-a** - to filter by date (At or After a date).
- **-b** - to filter by date (At or Before a date).
- **-i** - to filter by IP Address (must be valid IPv4 or IPv6 address).
- **-w** - to filter by Web Service ID.
- **-d** - to include detailed communication data.

Example: Searching for debugger log entries with all parameters:

```
shell> ./otrs.GenericInterfaceDebugRead.pl -c
a7cc4d9f5c70387a9bfbe1351bc88966 -t Provider -a '2011-07-22 00:00:00' -b '2011-07-26
00:00:00' -i 127.0.0.1 -w 123 -d 1
```

Note

It is highly recommended to include at least one of the filter options listed above, and even more if the "-d" option is selected, because *a lot of* information can be retrieved from the data base and displayed on the screen, this could result in slow response times and much more information than what you really needed.

11.6. Web Service Configuration

From its design the web services were conceived to be portable from one OTRS system to another, e.g. from a test or development environment to a production system. Therefore it was needed to have an easy way to extract the web service configuration from the database, and import it to another. To accomplish this task the Generic Interface uses YAML files as the web services configuration basis.

Why YAML? YAML is a markup language designed to be human friendly to read and write (it is easier to understand than JSON), it does not have some of the limitations of XML like numeric tags, it is open, standardized, and is complete enough to store the whole web service configuration.

Note

To learn more about YAML please visit <http://www.yaml.org/>.

The following is a web service configuration file example in YAML format:

```

---
Debugger:
  DebugThreshold: debug
Description: This an example of a web service configuration
Provider:
  Operation:
    CloseIncident:
      Description: This is a test operation
      MappingInbound: {}
      MappingOutbound: {}
      RemoteSystemGuid: ''
      Type: Test::Test
    Test:
      Description: This is a test operation
      MappingInbound:
        Config:
          KeyMapDefault:
            MapTo: ''
            MapType: Keep
          KeyMapExact:
            Prio: Priority
          ValueMap:
            Priority:
              ValueMapExact:
                Critical: 5 Very High
                Information: 1 Very Low
                Warning: 3 Normal
            ValueMapDefault:
              MapTo: 3 Normal
              MapType: MapTo
          Type: Simple
      MappingOutbound:
        Config:
          KeyMapDefault:
            MapTo: ''
            MapType: Ignore
          KeyMapExact:
            Priority: Prio
          ValueMap:

```

```

    Prio:
      ValueMapExact:
        1 Very Low: Information
        3 Normal: Warning
        5 Very High: Critical
      ValueMapDefault:
        MapTo: ''
        MapType: Ignore
      Type: Simple
      Type: Test::Test
  Transport:
    Config:
      MaxLength: 10000000
      NameSpace: http://www.example.com/actions
      Type: HTTP::SOAP
  RemoteSystem: remote.system.description.example.com
  Requester:
    Invoker:
      Test:
        Description: This is a test invoker
        Events:
          - Asynchronous: 1
            Event: TicketCreate
          - Asynchronous: 0
            Event: ArticleUpdate
        MappingInbound:
          Type: Simple
        MappingOutbound:
          Type: Simple
          Type: Test::Test
      Transport:
        Config:
          Authentication:
            Password: '*****'
            Type: BasicAuth
            User: otrs
          Encoding: utf-8
          Endpoint: http://www.example.com:8080/endpoint
          NameSpace: http://www.example.com/actions
          SOAPAction: Yes
          SOAPActionSeparator: '#'
          Type: HTTP::SOAP

```

11.6.1. Configuration Details

11.6.1.1. General

- Description: a short text that describes the web service.
- RemoteSystem: a short description of the Remote System.
- Debugger: a container for the debugger settings.
- Provider: a container for the provider settings.
- Requester: a container for the requester settings.

11.6.1.2. Debugger

- DebugThreshold: the debugger level

Possible Values

- debug: all logs are stored in the database.
- info: info, notice and error level logs are stored in the database.

- notice: notice and error level logs are stored in the database.
- error: only error level logs are stored in the database.

11.6.1.3. Provider

- Operation: a container for each operation settings.
- Transport: a container for provider network transport settings.

11.6.1.3.1. Operation

- <OperationName>: Unique name for the operation, container for its own operation settings (cardinality 0..n, but not duplicate).

11.6.1.3.1.1. <OperationName>

This section is based on operations from type "Test::Test" other operations might contain more or different settings.

- Description: a short text that describes the operation.
- MappingInbound: a container for the mapping settings for the incoming request data.
- MappingOutbound: a container for the mapping settings for the outgoing response data.
- Type: the operation backend, in Controller::Operation format.

11.6.1.3.1.1.1. MappingInbound

This section is based on mappings from type "Simple". Other mappings might contain more or different settings.

- Config: a container for this mapping settings.
- Type: the mapping backend.

11.6.1.3.1.1.1.1. Config

- KeyMapDefault: a container for all non mapped keys settings.
- ValueMapDefault: a container for all non mapped values settings.
- KeyMapExact: a container for all exact key mappings (cardinality 0 .. 1).
- KeyMapRegEx: a container for all regular expression key mappings (cardinality 0 .. 1).
- ValueMap: a container for all value mappings (cardinality 0 .. 1).

11.6.1.3.1.1.1.1.1. KeyMapDefault

- MapTo: the new value to be used (only applicable if MapType is set to MapTo).
- MapType: the rule for the mapping.

Possible Values

- Keep: leave unchanged.
- Ignore: drop.
- MapTo: change to the MapTo value.

11.6.1.3.1.1.1.1.2. ValueMapDefault

Similar to KeyMapDefault.

11.6.1.3.1.1.1.1.3. KeyMapExact

- <oldkey>: <newkey> (cardinality 0 .. n but not duplicate).

11.6.1.3.1.1.1.1.4. KeyMapRegEx

- <oldkey(RegEx)>: <newkey> (cardinality 0 .. n but no duplicates).

11.6.1.3.1.1.1.1.5. ValueMap

- <newkey>: a container for value mappings for this new key (cardinality depends on the new keys from KeyMapExact and KeyMapRegEx).

11.6.1.3.1.1.1.1.5.1. <newkey>

- ValueMapExact: a container for all exact value mappings (cardinality 0 .. 1).
- ValueMapRegEx: a container for all regular expression value mappings (cardinality 0 .. 1).

11.6.1.3.1.1.1.1.5.1.1. valueMapExact

- <oldvalue>: <newvalue> (cardinality 0 .. n but not duplicate).

11.6.1.3.1.1.1.1.5.1.2. ValueMapRegEx

- <oldvalue(RegEx)>: <newvalue> (cardinality 0 .. n but not duplicate).

11.6.1.3.1.1.2. MappingOutbound

Same as MappingInbound.

11.6.1.3.1.1.3. Transport

This section is based on the provider network transport HTTP::SOAP, other transports might contain more or different settings.

- Config: a container for the specific network transport configuration settings.
- Type: the provider network transport backend.

11.6.1.3.1.1.3.1. Config

- MaxLength: the maximum length in bytes to be read in a SOAP message by OTRS.
- NameSpace: an URI that gives a context to all operations that belongs to this web service.

11.6.1.4. Requester

- Invoker: a container for each invokers' settings.
- Transport: a container for requester network transport settings.

11.6.1.4.1. Invoker

- <InvokerName>: Unique name for the invoker, container for its own invoker settings (cardinality 0..n, but not duplicate).

11.6.1.4.1.1. <InvokerName>

This section is based on invokers from type "Test::Test" other invokers might contain more or different settings.

- Description: a short text that describes the invoker
- Events: a container for a unnamed list of event trigger settings.
- MappingInbound: a container for the mapping settings for the incoming response data.
- MappingOutbound: a container for the mapping settings for the outgoing request data.
- Type: the invoker backend, in Controller::Invoker format.

11.6.1.4.1.1.1. Events

- *List Element*: (cardinality 0 .. n)
 - Asynchronous: to set if the invoker execution will be delegated to the Scheduler

Possible Values

- 0: not handled by the Scheduler.
- 1: handled by the Scheduler.
- Event: the name of the event trigger.

Possible Values (for ticket events)

- TicketCreate
- TicketDelete
- TicketTitleUpdate
- TicketUnlockTimeoutUpdate
- TicketQueueUpdate
- TicketTypeUpdate
- TicketServiceUpdate
- TicketSLAUpdate
- TicketCustomerUpdate
- TicketFreeTextUpdate
- TicketFreeTimeUpdate
- TicketPendingTimeUpdate
- TicketLockUpdate
- TicketArchiveFlagUpdate
- TicketStateUpdate
- TicketOwnerUpdate
- TicketResponsibleUpdate
- TicketPriorityUpdate
- HistoryAdd

- HistoryDelete
- TicketAccountTime
- TicketMerge
- TicketSubscribe
- TicketUnsubscribe
- TicketFlagSet
- TicketFlagDelete
- TicketSlaveLinkAdd
- TicketSlaveLinkDelete
- TicketMasterLinkDelete

Possible Values (for article events)

- Article Events
- ArticleCreate
- ArticleFreeTextUpdate
- ArticleUpdate
- ArticleSend
- ArticleBounce
- ArticleAgentNotification
- ArticleCustomerNotification
- ArticleAutoResponse
- ArticleFlagSet
- ArticleFlagDelete
- ArticleAgentNotification
- ArticleCustomerNotification

11.6.1.4.1.1.2. MappingInbound

Same as Operation MappingInbound

11.6.1.4.1.1.3. MappingOutbound

Same as Operation MappingInbound.

11.6.1.4.1.1.4. Transport

This section is based on the requester network transport HTTP::SOAP, other transports might contain more or different settings.

- Config: a container for the specific network transport configuration settings.

- Type: the requester network transport backend.

11.6.1.4.1.1.4.1. Config

- Authentication: a container for authentication settings.
- Encoding: the SOAP Message request encoding
- Endpoint: the URI of the Remote Server web service to accept OTRS requests
- Namespace: an URI that gives a context to all invokers that belongs to this web service.
- SOAPAction: to send an empty or filled SOAPAction header in the SOAP Message (in "<Namespace> <Separator> <Action>" format).

Possible Values

- YES: to send a filled SOAPAction header.
- No: to send an empty SOAPAction header.
- SOAPActionSeparator: to set the <Separator> of a filled SOAPAction header.

Possible Values

- '/': used for .net web services.
- '#': used for all the rest web services.

11.6.1.4.1.1.4.1.1. Authentication

- User: the privileged user name that has access to the remote web service.
- Password: the password for privileged user in plain text.
- Type: the type of authentication.

11.7. Connectors

A Connector is in essence a set of actions that are either called Operations if OTRS acts as a web service provider or Invokers if OTRS acts as a web service requester. But it can also include special Mappings or Transports.

One Connector can either have only Operations, Only Invokers or both. A connector can even use parts of other connectors like the Mappings or Transports if they are not to specific for the Connector that is trying to implement them.

In other words a Connector is not limited to just the Controller layer but it can be extended to Data Mapping or Network Transport layers if needed.

Due to the modular design of the Generic Interface a Connector can be seen as a plug-in; this means that by adding Connectors the capabilities of the generic interface can be extended using: OTRS Feature add ons, OTRS Custom modules, 3rd Party modules, and so on.

11.7.1. Bundled Connectors

Included with this version of OTRS the following connectors are ready to be used.

- Session
- Ticket

11.7.1.1. Session Connector

This connector is capable to create a valid SessionID that can be used in any other operation.

Provides:

- Operations:
 - SessionCreate

11.7.1.1.1. Operations

11.7.1.1.1.1. SessionCreate

Creates a new new valid SessionID to be used in other operations from other connectors like TicketCreate.

Note

To use the SessionID in other operations from other connectors it is necessary that the operation implements authentication by SessionID. All the rest of the bundled operations are capable of accepting a valid SessionID as an authentication method.

Possible Attributes:

```
<SessionCreate>
  <!--You have a MANDATORY CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <UserLogin?></UserLogin>
  <!--Optional:-->
  <CustomerUserLogin?></CustomerUserLogin>
  <!--Optional:-->
  <Password?></Password>
</SessionCreate>
```

11.7.1.2. Ticket Connector

This connector supplies the basic functionality to interact with tickets

Provides:

- Operations:
 - TicketCreate
 - TicketUpdate
 - TicketGet
 - TicketSearch

11.7.1.2.1. Operations

11.7.1.2.1.1. TicketCreate

Provides an interface to create a ticket in OTRS. A ticket must contain an Article and can contain several attachments, all defined Dynamic Fields can be also set on TicketCreate operation.

Possible Attributes:

```

<TicketCreate>
  <!--You have a MANDATORY CHOICE of the next 3 items at this level-->
  <!--Optional:-->
  <UserLogin?</UserLogin>
  <!--Optional:-->
  <CustomerUserLogin?</CustomerUserLogin>
  <!--Optional:-->
  <SessionID?</SessionID>
  <!--Optional:-->
  <Password?</Password>
  <Ticket>
    <Title?</Title>
    <!--You have a MANDATORY CHOICE of the next 2 items at this level-->
    <!--Optional:-->
    <QueueID?</QueueID>
    <!--Optional:-->
    <Queue?</Queue>
    <!--You have a CHOICE of the next 2 items at this level-->
    <!--Optional:-->
    <TypeID?</TypeID>
    <!--Optional:-->
    <Type?</Type>
    <!--You have a CHOICE of the next 2 items at this level-->
    <!--Optional:-->
    <ServiceID?</ServiceID>
    <!--Optional:-->
    <Service?</Service>
    <!--You have a CHOICE of the next 2 items at this level-->
    <!--Optional:-->
    <SLAID?</SLAID>
    <!--Optional:-->
    <SLA?</SLA>
    <!--You have a MANDATORY CHOICE of the next 2 items at this level-->
    <!--Optional:-->
    <StateID?</StateID>
    <!--Optional:-->
    <State?</State>
    <!--You have a MANDATORY CHOICE of the next 2 items at this level-->
    <!--Optional:-->
    <PriorityID?</PriorityID>
    <!--Optional:-->
    <Priority?</Priority>
    <!--You have a CHOICE of the next 2 items at this level-->
    <!--Optional:-->
    <OwnerID?</OwnerID>
    <!--Optional:-->
    <Owner?</Owner>
    <!--You have a CHOICE of the next 2 items at this level-->
    <!--Optional:-->
    <ResponsibleID?</ResponsibleID>
    <!--Optional:-->
    <Responsible?</Responsible>
    <CustomerUser?</CustomerUser>
    <!--Optional:-->
    <CustomerID?</CustomerID>
    <!--Optional:-->
    <PendingTime>
      <Year?</Year>
      <Month?</Month>
      <Day?</Day>
      <Hour?</Hour>
      <Minute?</Minute>
    </PendingTime>
  </Ticket>
  <Article>
    <!--You have a CHOICE of the next 2 items at this level-->
    <!--Optional:-->
    <ArticleTypeID?</ArticleTypeID>
  
```

```

<!--Optional:-->
<ArticleType?></ArticleType>
<!--You have a CHOICE of the next 2 items at this level-->
<!--Optional:-->
<SenderTypeID?></SenderTypeID>
<!--Optional:-->
<SenderType?></SenderType>
<!--Optional:-->
<From?></From>
<Subject?></Subject>
<Body?></Body>
<!--You have a CHOICE of the next 2 items at this level-->
<!--Optional:-->
<ContentType?></ContentType>
<Charset?></Charset>
<MimeType?></MimeType>
<!--Optional:-->
<HistoryType?></HistoryType>
<!--Optional:-->
<HistoryComment?></HistoryComment>
<!--Optional:-->
<AutoResponseType?></AutoResponseType>
<!--Optional:-->
<TimeUnit?></TimeUnit>
<!--Optional:-->
<NoAgentNotify?></NoAgentNotify>
<!--Zero or more repetitions:-->
<ForceNotificationToUserID?></ForceNotificationToUserID>
<!--Zero or more repetitions:-->
<ExcludeNotificationToUserID?></ExcludeNotificationToUserID>
<!--Zero or more repetitions:-->
<ExcludeMuteNotificationToUserID?></ExcludeMuteNotificationToUserID>
</Article>
<!--Zero or more repetitions:-->
<DynamicField>
  <Name?></Name>
  <!--1 or more repetitions:-->
  <Value?></Value>
</DynamicField>
<!--Zero or more repetitions:-->
<Attachment>
  <Content>cid:61886944659</Content>
  <ContentType?></ContentType>
  <Filename?></Filename>
</Attachment>
</TicketCreate>

```

11.7.1.2.1.2. TicketUpdate

TicketUpdate operation adds the capability to modify attributes from an existing ticket or to add a new article, including attachments and all defined dynamic fields for the ticket and the new article.

Note

It is not necessary to create a new article to modify a ticket attribute.

Possible Attributes:

```

<TicketUpdate>
  <!--You have a MANDATORY CHOICE of the next 3 items at this level-->
  <!--Optional:-->
  <UserLogin?></UserLogin>
  <!--Optional:-->
  <CustomerUserLogin?></CustomerUserLogin>
  <!--Optional:-->
  <SessionID?></SessionID>

```

```

<!--Optional:-->
<Password?>/Password>
<!--You have a CHOICE of the next 2 items at this level-->
<TicketID?>/TicketID>
<TicketNumber?>/TicketNumber>
<!--Optional:-->
<Ticket>
  <!--Optional:-->
  <Title?>/Title>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <QueueID?>/QueueID>
  <!--Optional:-->
  <Queue?>/Queue>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <TypeID?>/TypeID>
  <!--Optional:-->
  <Type?>/Type>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <ServiceID?>/ServiceID>
  <!--Optional:-->
  <Service?>/Service>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <SLAID?>/SLAID>
  <!--Optional:-->
  <SLA?>/SLA>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <StateID?>/StateID>
  <!--Optional:-->
  <State?>/State>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <PriorityID?>/PriorityID>
  <!--Optional:-->
  <Priority?>/Priority>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <OwnerID?>/OwnerID>
  <!--Optional:-->
  <Owner?>/Owner>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <ResponsibleID?>/ResponsibleID>
  <!--Optional:-->
  <Responsible?>/Responsible>
  <!--Optional:-->
  <CustomerUser?>/CustomerUser>
  <!--Optional:-->
  <CustomerID?>/CustomerID>
  <!--Optional:-->
  <PendingTime>
    <Year?>/Year>
    <Month?>/Month>
    <Day?>/Day>
    <Hour?>/Hour>
    <Minute?>/Minute>
  </PendingTime>
</Ticket>
<!--Optional:-->
<Article>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <ArticleTypeID?>/ArticleTypeID>
  <!--Optional:-->
  <ArticleType?>/ArticleType>
  <!--You have a CHOICE of the next 2 items at this level-->
  <!--Optional:-->
  <SenderTypeID?>/SenderTypeID>

```

```

<!--Optional:-->
<SenderType?</SenderType>
<!--Optional:-->
<From?</From>
<Subject?</Subject>
<Body?</Body>
<!--You have a CHOICE of the next 2 items at this level-->
<!--Optional:-->
<ContentType?</ContentType>
<Charset?</Charset>
<MimeType?</MimeType>
<!--Optional:-->
<HistoryType?</HistoryType>
<!--Optional:-->
<HistoryComment?</HistoryComment>
<!--Optional:-->
<AutoResponseType?</AutoResponseType>
<!--Optional:-->
<TimeUnit?</TimeUnit>
<!--Optional:-->
<NoAgentNotify?</NoAgentNotify>
<!--Zero or more repetitions:-->
<ForceNotificationToUserID?</ForceNotificationToUserID>
<!--Zero or more repetitions:-->
<ExcludeNotificationToUserID?</ExcludeNotificationToUserID>
<!--Zero or more repetitions:-->
<ExcludeMuteNotificationToUserID?</ExcludeMuteNotificationToUserID>
</Article>
<!--Zero or more repetitions:-->
<DynamicField>
  <Name?</Name>
  <!--1 or more repetitions:-->
  <Value?</Value>
</DynamicField>
<!--Zero or more repetitions:-->
<Attachment>
  <Content>cid:166861569966</Content>
  <ContentType?</ContentType>
  <Filename?</Filename>
</Attachment>
</TicketUpdate>

```

11.7.1.2.1.3. TicketGet

This operation is used to get all the attributes of a ticket including the dynamic fields, all articles and all of the attachments that belong to the ticket.

Possible Attributes:

```

<TicketGet>
  <!--You have a MANDATORY CHOICE of the next 3 items at this level-->
  <!--Optional:-->
  <UserLogin?</UserLogin>
  <!--Optional:-->
  <CustomerUserLogin?</CustomerUserLogin>
  <!--Optional:-->
  <SessionID?</SessionID>
  <!--Optional:-->
  <Password?</Password>
  <!--1 or more repetitions:-->
  <TicketID?</TicketID>
  <!--Optional:-->
  <DynamicFields?</DynamicFields>
  <!--Optional:-->
  <Extended?</Extended>
  <!--Optional:-->
  <AllArticles?</AllArticles>
  <!--Optional:-->

```

```

<ArticleSenderType?></ArticleSenderType>
<!--Optional:-->
<ArticleOrder?></ArticleOrder>
<!--Optional:-->
<ArticleLimit?></ArticleLimit>
<!--Optional:-->
<Attachments?></Attachments>
</TicketGet>

```

11.7.1.2.1.4. TicketSearch

TicketSearch operation returns a list of Ticket IDs that matches a predefined criteria.

Possible Attributes:

```

<TicketSearch>
  <!--You have a MANDATORY CHOICE of the next 3 items at this level-->
  <!--Optional:-->
  <UserLogin?></UserLogin>
  <!--Optional:-->
  <CustomerUserLogin?></CustomerUserLogin>
  <!--Optional:-->
  <SessionID?></SessionID>
  <!--Optional:-->
  <Password?></Password>
  <!--Optional:-->
  <Limit?></Limit>
  <!--Zero or more repetitions:-->
  <TicketNumber?></TicketNumber>
  <!--Zero or more repetitions:-->
  <Title?></Title>
  <!--Zero or more repetitions:-->
  <Queues?></Queues>
  <!--Zero or more repetitions:-->
  <QueueIDs?></QueueIDs>
  <!--Optional:-->
  <UseSubQueues?></UseSubQueues>
  <!--Zero or more repetitions:-->
  <Types?></Types>
  <!--Zero or more repetitions:-->
  <TypeIDs?></TypeIDs>
  <!--Zero or more repetitions:-->
  <States?></States>
  <!--Zero or more repetitions:-->
  <StateIDs?></StateIDs>
  <!--Zero or more repetitions:-->
  <StateType?></StateType>
  <!--Zero or more repetitions:-->
  <StateTypeIDs?></StateTypeIDs>
  <!--Zero or more repetitions:-->
  <Priorities?></Priorities>
  <!--Zero or more repetitions:-->
  <PriorityIDs?></PriorityIDs>
  <!--Zero or more repetitions:-->
  <Services?></Services>
  <!--Zero or more repetitions:-->
  <ServiceIDs?></ServiceIDs>
  <!--Zero or more repetitions:-->
  <SLAs?></SLAs>
  <!--Zero or more repetitions:-->
  <SLAIDs?></SLAIDs>
  <!--Zero or more repetitions:-->
  <Locks?></Locks>
  <!--Zero or more repetitions:-->
  <LockIDs?></LockIDs>
  <!--Zero or more repetitions:-->
  <OwnerIDs?></OwnerIDs>
  <!--Zero or more repetitions:-->

```

```

<ResponsibleIDs>?</ResponsibleIDs>
<!--Zero or more repetitions:-->
<WatchUserIDs>?</WatchUserIDs>
<!--Zero or more repetitions:-->
<CustomerID>?</CustomerID>
<!--Zero or more repetitions:-->
<CustomerUserLogin>?</CustomerUserLogin>
<!--Zero or more repetitions:-->
<CreatedUserIDs>?</CreatedUserIDs>
<!--Zero or more repetitions:-->
<CreatedTypes>?</CreatedTypes>
<!--Zero or more repetitions:-->
<CreatedTypeID>?</CreatedTypeID>
<!--Zero or more repetitions:-->
<CreatedPriorities>?</CreatedPriorities>
<!--Zero or more repetitions:-->
<CreatedPriorityIDs>?</CreatedPriorityIDs>
<!--Zero or more repetitions:-->
<CreatedStates>?</CreatedStates>
<!--Zero or more repetitions:-->
<CreatedStateIDs>?</CreatedStateIDs>
<!--Zero or more repetitions:-->
<CreatedQueues>?</CreatedQueues>
<!--Zero or more repetitions:-->
<CreatedQueueIDs>?</CreatedQueueIDs>
<!--Zero or more repetitions:-->
<DynamicFields>
  <!--You have a MANDATORY CHOICE of the next 6 items at this level-->
  <!--Optional:-->
  <Equals>?</Equals>
  <!--Optional:-->
  <Like>?</Like>
  <!--Optional:-->
  <GreaterThan>?</GreaterThan>
  <!--Optional:-->
  <GreaterThanEquals>?</GreaterThanEquals>
  <!--Optional:-->
  <SmallerThan>?</SmallerThan>
  <!--Optional:-->
  <SmallerThanEquals>?</SmallerThanEquals>
</DynamicFields>
<!--Optional:-->
<Ticketflag>
  <!--Optional:-->
  <Seen>?</Seen>
</Ticketflag>
<!--Optional:-->
<From>?</From>
<!--Optional:-->
<To>?</To>
<!--Optional:-->
<Cc>?</Cc>
<!--Optional:-->
<Subject>?</Subject>
<!--Optional:-->
<Body>?</Body>
<!--Optional:-->
<FullTextIndex>?</FullTextIndex>
<!--Optional:-->
<ContentSearch>?</ContentSearch>
<!--Optional:-->
<ConditionInline>?</ConditionInline>
<!--Optional:-->
<ArticleCreateTimeOlderMinutes>?</ArticleCreateTimeOlderMinutes>
<!--Optional:-->
<ArticleCreateTimeNewerMinutes>?</ArticleCreateTimeNewerMinutes>
<!--Optional:-->
<ArticleCreateTimeNewerDate>?</ArticleCreateTimeNewerDate>
<!--Optional:-->
<ArticleCreateTimeOlderDate>?</ArticleCreateTimeOlderDate>
<!--Optional:-->
<TicketCreateTimeOlderMinutes>?</TicketCreateTimeOlderMinutes>

```

```

<!--Optional:-->
<ATicketCreateTimeNewerMinutes>?</ATicketCreateTimeNewerMinutes>
<!--Optional:-->
<TicketCreateTimeNewerDate>?</TicketCreateTimeNewerDate>
<!--Optional:-->
<TicketCreateTimeOlderDate>?</TicketCreateTimeOlderDate>
<!--Optional:-->
<TicketChangeTimeOlderMinutes>?</TicketChangeTimeOlderMinutes>
<!--Optional:-->
<TicketChangeTimeNewerMinutes>?</TicketChangeTimeNewerMinutes>
<!--Optional:-->
<TicketChangeTimeNewerDate>?</TicketChangeTimeNewerDate>
<!--Optional:-->
<TicketChangeTimeOlderDate>?</TicketChangeTimeOlderDate>
<!--Optional:-->
<TicketCloseTimeOlderMinutes>?</TicketCloseTimeOlderMinutes>
<!--Optional:-->
<TicketCloseTimeNewerMinutes>?</TicketCloseTimeNewerMinutes>
<!--Optional:-->
<TicketCloseTimeNewerDate>?</TicketCloseTimeNewerDate>
<!--Optional:-->
<TicketCloseTimeOlderDate>?</TicketCloseTimeOlderDate>
<!--Optional:-->
<TicketPendingTimeOlderMinutes>?</TicketPendingTimeOlderMinutes>
<!--Optional:-->
<TicketPendingTimeNewerMinutes>?</TicketPendingTimeNewerMinutes>
<!--Optional:-->
<TicketPendingTimeNewerDate>?</TicketPendingTimeNewerDate>
<!--Optional:-->
<TicketPendingTimeOlderDate>?</TicketPendingTimeOlderDate>
<!--Optional:-->
<TicketEscalationTimeOlderMinutes>?</TicketEscalationTimeOlderMinutes>
<!--Optional:-->
<TTicketEscalationTimeNewerMinutes>?</TTicketEscalationTimeNewerMinutes>
<!--Optional:-->
<TicketEscalationTimeNewerDate>?</TicketEscalationTimeNewerDate>
<!--Optional:-->
<TicketEscalationTimeOlderDate>?</TicketEscalationTimeOlderDate>
<!--Optional:-->
<ArchiveFlags>?</ArchiveFlags>
<!--Zero or more repetitions:-->
<OrderBy>?</OrderBy>
<!--Zero or more repetitions:-->
<SortBy>?</SortBy>
<!--Zero or more repetitions:-->
<CustomerUserID>?</CustomerUserID>
</TicketSearch>

```

11.7.2. Examples:

11.7.2.1. Web Service Configuration

The following is a basic but complete web service configuration file in YAML format to use all the Ticket Connector operations. In order to use it in OTRS you need to copy the content, save it into a file called GenericTicketConnector.yml, and import it into OTRS in the Web Services screen in the Admin panel by clicking in the "Add web service" action from the overview screen and then clicking in the "Import web service" action in the add screen.

```

---
Debugger:
  DebugThreshold: debug
  TestMode: 0
Description: Ticket Connector Sample
FrameworkVersion: 3.2.x CVS
Provider:

```

```

Operation:
  SessionCreate:
    Description: Creates a Session
    MappingInbound: {}
    MappingOutbound: {}
    Type: Session::SessionCreate
  TicketCreate:
    Description: Creates a Ticket
    MappingInbound: {}
    MappingOutbound: {}
    Type: Ticket::TicketCreate
  TicketUpdate:
    Description: Updates a Ticket
    MappingInbound: {}
    MappingOutbound: {}
    Type: Ticket::TicketUpdate
  TicketGet:
    Description: Retrieve Ticket data
    MappingInbound: {}
    MappingOutbound: {}
    Type: Ticket::TicketGet
  TicketSearch:
    Description: Search for Tickets
    MappingInbound: {}
    MappingOutbound: {}
    Type: Ticket::TicketSearch
Transport:
  Config:
    MaxLength: 100000000
    NameSpace: http://www.otrs.org/TicketConnector/
    Type: HTTP::SOAP
RemoteSystem: ''
Requester:
  Transport:
  Type: ''

```

11.7.2.2. Perl SOAP Requester

The following code is a Perl script that can connect to OTRS via the generic interface. In order to perform the operations provided by the Ticket Connector, it uses two Perl CPAN modules SOAP::Lite and Data::Dumper. Please make sure that your environment is capable to use these modules before you try to run the script.

```

#!/usr/bin/perl -w
# --
# otrs.SOAPRequest.pl - sample to send a SOAP request to OTRS Generic Interface Ticket
# Connector
# Copyright (C) 2001-2013 OTRS AG, http://otrs.com/
# --
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU AFFERO General Public License as published by
# the Free Software Foundation; either version 3 of the License, or
# any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU Affero General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
# or see http://www.gnu.org/licenses/agpl.txt.
# --

use strict;
use warnings;

```

```

# use ../ as lib location
use File::Basename;
use FindBin qw($RealBin);
use lib dirname($RealBin);

use SOAP::Lite;
use Data::Dumper;

# ---
# Variables to be defined.

# this is the URL for the web service
# the format is
# <HTTP_TYPE>:://<OTRS_FQDN>/nph-genericinterface.pl/Webservice/<WEB_SERVICE_NAME>
# or
# <HTTP_TYPE>:://<OTRS_FQDN>/nph-genericinterface.pl/WebserviceID/<WEB_SERVICE_ID>
my $URL = 'http://localhost/otrs/nph-genericinterface.pl/Webservice/GenericTicketConnector';

# this name space should match the specified name space in the SOAP transport for the web
# service.
my $NameSpace = 'http://www.otrs.org/TicketConnector/';

# this is operation to execute, it could be TicketCreate, TicketUpdate, TicketGet,
# TicketSearch
# or SessionCreate. and they must to be defined in the web service.
my $Operation = 'TicketCreate';

# this variable is used to store all the parameters to be included on a request in XML
# format. Each
# operation has a determined set of mandatory and non mandatory parameters to work
# correctly. Please
# check the OTRS Admin Manual in order to get a complete list of parameters.
my $XMLData = '
<UserLogin>some user login</UserLogin>
<Password>some password</Password>
<Ticket>
  <Title>some title</Title>
  <CustomerUser>some customer user login</CustomerUser>
  <Queue>some queue</Queue>
  <State>some state</State>
  <Priority>some priority</Priority>
</Ticket>
<Article>
  <Subject>some subject</Subject>
  <Body>some body</Body>
  <ContentType>text/plain; charset=utf8</ContentType>
</Article>
';

# ---

# create a SOAP::Lite data structure from the provided XML data structure.
my $SOAPData = SOAP::Data
  ->type( 'xml' => $XMLData );

my $SOAPObject = SOAP::Lite
  ->uri($NameSpace)
  ->proxy($URL)
  ->$Operation($SOAPData);

# check for a fault in the soap code.
if ( $SOAPObject->fault ) {
  print $SOAPObject->faultcode, " ", $SOAPObject->faultstring, "\n";
}

# otherwise print the results.
else {

  # get the XML response part from the SOAP message.
  my $XMLResponse = $SOAPObject->context()->transport()->proxy()->http_response()-
  >content();

```

```
# deserialize response (convert it into a perl structure).
my $Deserialized = eval {
    SOAP::Deserializer->deserialize($XMLResponse);
};

# remove all the headers and other not needed parts of the SOAP message.
my $Body = $Deserialized->body();

# just output relevant data and no the operation name key (like TicketCreateResponse).
for my $ResponseKey ( keys %{$Body} ) {
    print Dumper( $Body->{$ResponseKey} );
}
}
```

12. OTRS Scheduler

The OTRS Scheduler is an independent system process that executes tasks in background. These kind of processes are known as *daemons* in Unix / Linux systems or as *services* on Windows environments. It is independent but that doesn't mean that the Scheduler does everything alone, it is fully integrated into OTRS and can use any OTRS module as needed to complete each task.

For sanity reasons the Scheduler process needs to be restarted from time to time. This is done automatically by the scheduler process itself once a day, but it can be adjusted as needed using the SysConfig by editing the "Scheduler::RestartAfterSeconds" setting.

The OTRS Scheduler is a fully automated process, the only needed human interaction is to check its status periodically and start or stop it as needed.

Note

If the Scheduler is stopped for any reason, all pending tasks and new tasks registered when the Scheduler is stopped will be executed as soon as the Scheduler starts again (unless the tasks are set to be executed in the future).

12.1. Scheduler Graphical Interface

The Scheduler is not visible in the OTRS Graphical User Interface unless it stops running.

12.1.1. Scheduler Not Running Notification

There are two different types of notifications if the system detects that the scheduler is not running. This detection is based on the update frequency of the Scheduler process. If the difference between current time and the last process update time is 2 times the process update frequency a warning message will be displayed in the OTRS notification area. If it is over 4 times the process frequency then an alert will be displayed instead.

The Scheduler process update time can be configured via the SysConfig in the "Scheduler::PIDUpdateTime" setting.

If you see a warning message it is not always necessary to take an action, but it is highly recommended to check if the scheduler process is running. If you see an alert, then there is a high chance that the scheduler is in fact not running and should be started.

By default the Scheduler not running notification is enabled, if there is a valid web service registered in the database, and is only displayed to the users in the "admin" group.

To disable the notification (not recommended) or to change or add the notification groups, please edit the "Frontend::NotifyModule###800-Scheduler-Check" setting in the SysConfig.



Figure: Scheduler notification.

12.1.2. Start Scheduler

By clicking on the Scheduler not running notification link (either warning or alert) a dialog box will open to let you start the Scheduler process again. The Scheduler can be started normally or forced to start, by clicking on the appropriate check box in the dialog.

Note

A forced Scheduler start is only necessary if previous Scheduler process was terminated abnormally and the Process ID is still registered in the database.

To have full control of the Scheduler process and to check its real status please use the command line tools described below.

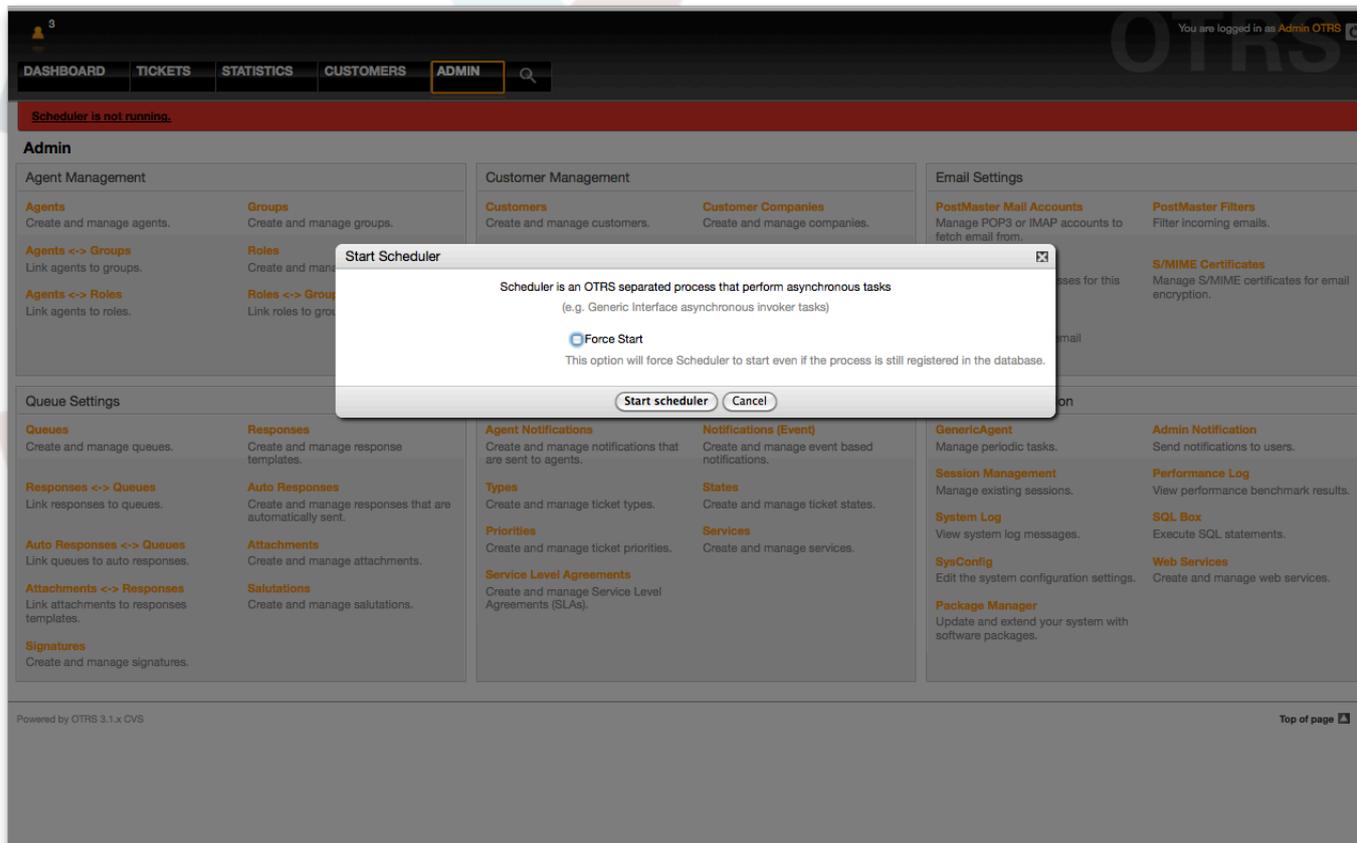


Figure: Start Scheduler.

12.2. Scheduler Command Line Interface

The Scheduler command line tools let you control the Scheduler process (Start / Stop) or query its status. There are also tools to register the process to be controlled by the operating system.

Included with OTRS there are two sets of CLI tools, one for Unix / Linux and another for Microsoft Windows.

12.2.1. Unix / Linux

12.2.1.1. Scheduler init.d files

Init.d files are special scripts that are called by the operating system at startup and shut-down.

OTRS provides init.d scripts to start / stop the OTRS Scheduler process automatically by the operating system. These scripts are located under OTRS_HOME/scripts.

The init.d scripts need to be copied to the correct location for your operating system. They need to have the proper permissions and some internal variables need to be set to work properly. If you used the OTRS RPMs to set up the system, this is taken care of automatically.

Init.d Script Internal Variables

- **OTRS_HOME** - the path of your OTRS installation.
- **User** - the apache process user name.
- **Group** - the apache process user's group name.

Note

Currently OTRS provides only init.d scripts for Linux platforms.

Table 4.7. List of init scripts and supported Operating Systems

Init Script	Supported OS
otrs-scheduler-linux	Red Hat, Fedora, CentOS, SUSE, openSUSE, Debian, Ubuntu
otrs-scheduler-gentoo-init.d, otrs-scheduler-gentoo-conf.d	Gentoo

Example 4.29. Example to start the OTRS Scheduler on linux

```
shell> /etc/init.d/otrs-scheduler-linux start
```

Available Actions

- **start** to start the OTRS Scheduler process.
- **stop** to stop the OTRS Scheduler process.
- **restart** to restart the OTRS Scheduler process.
- **status** to query the OTRS Scheduler process status.

The Scheduler needs the database to be available to register its Process ID, for this reason is necessary to:

- Execute the Scheduler init.d script to *start* the Scheduler process after the database process is up and running.
- Execute the Scheduler init.d script to *stop* the Scheduler before the database process shuts down.

Note

If you want the Scheduler to run at system startup, please read the documentation of the operating system to find out the right location to place the init.d scripts, how to configure them to run automatically and how to set the run order.

12.2.1.2. Scheduler Daemon File

This is the part of the Scheduler that stays running in the background checking for tasks to execute. It also provides the main functions to control the process.

All Unix / Linux uses the file **OTRS_HOME/bin/otrs.Scheduler.pl**.

Example 4.30. Example To Start The OTRS Scheduler

```
shell> OTRS_HOME/bin/otrs.Scheduler.pl -a start
```

Available Options

- **-a** action.

Possible Values

- **start**- to start the Scheduler process.
- **stop**- to stop the Scheduler process.
- **status**- to query Scheduler process status.
- **-f** to force the start or stop of the Scheduler process.

Example 4.31. Example to force stop the OTRS Scheduler

```
shell> OTRS_HOME/bin/otrs.Scheduler.pl -a stop -f 1
```

Note

Force stop the Scheduler is used remove the process ID from the database when the scheduler is not running and the process is still registered.

Force start the Scheduler is used to start the Scheduler process if the scheduler is not running and the process is registered.

Force start or stop are only necessary if the start of the process is needed to be done before the process update time expires. Otherwise an expired entry in the database is discarded by normal start.

12.2.2. Windows

12.2.2.1. Scheduler Service Installer

On Windows, the OTRS Scheduler is registered as a Service via the Windows Service Control Manager (SCM). In order to have the OTRS Scheduler process to be controlled by the SCM is necessary to register this service. If you used the Windows Installer this is taken care of by the installer, and there are no manual actions required.

OTRS provides the script **OTRS_HOME/bin/otrs.Scheduler4WinInstaller.pl** to register or unregister the OTRS Scheduler into the SCM.

Note

Registering and de-registering can only be performed by members of the Administrator group on Windows. You might need to right-click on cmd.exe and select 'Run as Administrator' before you can register the service correctly.

Example 4.32. Example to register the OTRS Scheduler as a Windows Service

```
install shell> perl OTRS_HOME/bin/otrs.Scheduler4WinInstaller.pl -a
```

Available Options

- **-a** action.

Possible Values

- **install**- to install the Scheduler process into the Windows SCM.
- **remove**- to remove the Scheduler process from the Windows SCM.

After installing into the Windows SCM the OTRS Scheduler process can be used like any other service on Windows. It can be started, stopped and restarted and can be configured to be started manually or automatic.

Note

To learn more about Windows Services and the Windows SCM please read the Windows documentation, and Microsoft online help.

12.2.2.2. Scheduler Service File

This is the part of the Scheduler that stays running in the background checking for tasks to execute. It also provides the main functions to control the process.

Microsoft Windows uses the file **OTRS_HOME/bin/otrs.Scheduler4Win.pl**.

Example 4.33. Example to start the OTRS Scheduler on Windows

```
shell> OTRS_HOME/bin/otrs.Scheduler4Win.pl -a start
```

Available Options

- **-a** action.

Possible Values

- **start**- to start the Scheduler process.
- **stop**- to stop the Scheduler process.
- **status**- to query Scheduler process status.

- **-f** to force the start or stop of the Scheduler process.

Example 4.34. Example to force stop the OTRS Scheduler on Windows

```
shell> OTRS_HOME/bin/otrs.Scheduler4Win.pl -a stop -f 1
```

Note

Force stopping the Scheduler is used to remove the process ID from the database when the scheduler is not running and the process is still registered.

Force starting the Scheduler is used to start the Scheduler process if the scheduler is not running and the process is still registered.

Force start or stop are only necessary if starting the process is needed to be done before the process update time expires. Otherwise an expired entry in the database would be discarded by a normal start.

Chapter 5. Customization

1. Access Control Lists (ACLs)

1.1. Introduction

From OTRS 2.0 on, Access Control Lists (ACLs) can be used to control access to tickets, modules, queues, etc., or to influence actions on tickets (closing, moving, etc.) in certain situations. ACLs can be used to supplement the existing permission system of roles and groups. Using ACLs, rudimental workflows within the system can be mapped, based on ticket attributes.

As yet, ACLs cannot be created using the SysConfig interface. They must be directly entered into the Kernel/Config.pm file. This chapter has some ACL examples which will walk you through the process of defining ACL definitions, and a reference of all possible important ACL settings.

1.2. Examples

Example 5.1. ACL allowing movement into a queue of only those tickets with ticket priority 5.

This example shows you the basic structure of an ACL. First, it needs to have a name. In this case, it is "ACL-Name-2". Note that the ACLs will be numerically sorted before execution, so you should use the names carefully.

Secondly, you have a "Properties" section which is a filter for your tickets. All the criteria defined here will be applied to a ticket to determine if the ACL must be applied or not. In our example, a ticket will match if it is in the queue "Raw" and has priority "5 very high". This is also affected by changes in the form (e.g. if the ticket is the queue "raw" and had a priority "3 normal", but then priority drop-down is selected and the priority is changed now to "5 very high" will also match).

Lastly, a section "Possible" defines modifications to the screens. In this case, from the available queues, only the queue "Alert" can be selected in a ticket screen.

```
# ticket acl
$self->{TicketAcl}->{'100-Example-ACL'} = {
  # match properties
  Properties => {
    # current ticket match properties
    Ticket => {
      Queue => ['Raw'],
      Priority => ['5 very high'],
    }
  },
  # return possible options (white list)
  Possible => {
    # possible ticket options (white list)
    Ticket => {
      Queue => ['Alert'],
    },
  },
};
```

Example 5.2. ACL allowing movement into a queue of only those tickets with ticket priority 5 stored in the database.

This example is very similar to the last one, but in this case only tickets in the queue "Raw" and with a priority "5 very high", both stored in the database will match. This kind of ACLs does not consider changes in the form before the ticket is really updated in the database.

```
# ticket acl
$self->{TicketAcl}->{'100-Example-ACL'} = {
  # match properties
  PropertiesDatabase => {
    # current ticket match properties
    Ticket => {
      Queue => ['Raw'],
      Priority => ['5 very high'],
    }
  },
  # return possible options (white list)
  Possible => {
    # possible ticket options (white list)
    Ticket => {
      Queue => ['Alert'],
    },
  },
};
```

Example 5.3. ACL disabling the closing of tickets in the raw queue, and hiding the close button.

Here you can see how a ticket field (state) can be filtered with more than one possible value to select from. It is also possible to limit the actions that can be executed for a certain ticket. In this case, the ticket cannot be closed.

```
$self->{TicketAcl}->{'101-Second-Example-ACL'} = {
  # match properties
  Properties => {
    # current ticket match properties
    Ticket => {
      Queue => ['Raw'],
    }
  },
  # return possible options (white list)
  Possible => {
    # possible ticket options (white list)
    Ticket => {
      State => ['new', 'open', 'pending reminder'],
    },
  },
  # possible action options
  Action => {
    AgentTicketBounce => 1,
    AgentTicketClose => 0,
    AgentTicketCompose => 1,
    AgentTicketCustomer => 1,
    AgentTicketForward => 1,
    AgentTicketFreeText => 1,
    AgentTicketHistory => 1,
    AgentTicketLink => 1,
    AgentTicketLock => 1,
    AgentTicketMerge => 1,
    AgentTicketMove => 1,
    AgentTicketNote => 1,
    AgentTicketOwner => 1,
    AgentTicketPending => 1,
    AgentTicketPhone => 1, # only used to hide the Split action
    AgentTicketPhoneInbound => 1,
    AgentTicketPhoneOutbound => 1,
    AgentTicketPrint => 1,
    AgentTicketPriority => 1,
  },
};
```

```

    AgentTicketResponsible => 1,
    AgentTicketWatcher    => 1,
    AgentTicketZoom       => 1,
    AgentLinkObject       => 1, # only used to hide the Link action
  },
},
};

```

Example 5.4. ACL removing always state closed successful.

This example shows how it is possible to define negative filters (the state "closed successful" will be removed). You can also see that not defining match properties for a ticket will match any ticket, i. e. the ACL will always be applied. This may be useful if you want to hide certain values by default, and only enable them in special circumstances (e. g. if the agent is in a specific group).

```

$self->{TicketAcl}->{'102-Third-ACL-Example'} = {
  # match properties
  Properties => {
    # current ticket match properties (match always)
  },
  # return possible options
  PossibleNot => {
    # possible ticket options
    Ticket => {
      State => ['closed successful'],
    },
  },
};

```

Example 5.5. ACL only showing Hardware services for tickets that are created in queues that start with "HW".

This example also shows you how you can use regular expressions for matching tickets and for filtering the available options.

```

$self->{TicketAcl}->{'Only-Hardware-Services-for-HW-Queues'} = {
  # match properties
  # note we don't have "Ticket => {" because there's no ticket yet
  Properties => {
    Queue => {
      Name => ['[RegExp]HW'],
    }
  },
  # return possible options
  Possible => {
    # possible ticket options
    Ticket => {
      Service => ['[RegExp]^(Hardware)'],
    },
  },
};

```

1.3. Reference

In the example below there is a list of all parameters which can be used for ACLs.

Please see the section on ACLs in the ProcessManagement documentation for a detailed description of how to use ACLs for process tickets.

Example 5.6. Reference showing all possible important ACL settings.

```

# ticket acl
$self->{TicketAcl}->{'200-ACL-Reference'} = {

```

```

# match properties (current values from the form)
Properties => {

  # the used frontend module
  Frontend => {
    Action => ['AgentTicketPhone', 'AgentTicketEmail'],
  },

  # the logged in agent
  User => {
    UserLogin => ['some login'],
    Group_rw => [
      'hotline',
    ],
    Role => [
      'admin',
    ],
    # ...
  },

  # the logged in customer
  CustomerUser => {
    UserLogin => ['some login'],
    Group_rw => [
      'hotline',
    ],
    Role => [
      'admin',
    ],
    # ...
  },

  # process properties
  Process => {
    ProcessEntityID      => ['P1'],    # the Process that the current ticket is
part of
    ActivityEntityID     => ['A1'],    # the current Activity of the ticket
    ActivityDialogEntityID => ['AD1'], # the current ActivityDialog that the Agent/
Customer is using
  },

  # ticket properties
  Queue => {
    Name      => ['Raw'],
    QueueID   => ['some id'],
    GroupID   => ['some id'],
    Email     => ['some email'],
    RealName  => ['OTRS System'],
    # ...
  },
  Service => {
    ServiceID => ['some id'],
    Name      => ['some name'],
    ParentID  => ['some id'],
    # ...
  },
  Type => {
    ID      => ['some id'],
    Name    => ['some name'],
    # ...
  },
  Priority = {
    ID      => ['some id'],
    Name    => ['some name'],
    # ...
  },
  SLA = {
    SLAID   => ['some id'],
    Name    => ['some name'],
    Calendar => ['some calendar'],
    # ...
  },
}

```

```

State = {
  ID      => ['some id'],
  Name    => ['some name'],
  TypeName => ['some state type name'],,
 TypeID   => ['some state type id'],
  # ...
},
Owner => {
  UserLogin => ['some login'],
  Group_rw => [
    'some group',
  ],
  Role => [
    'admin',
  ],
  # ...
},
Responsible => {
  UserLogin => ['some login'],
  Group_rw => [
    'some group',
  ],
  Role => [
    'admin',
  ],
  # ...
},
DynamicField => {
  # Names must be in DynamicField_<field_name> format.
  # Values in [ ... ] must always be the untranslated internal data keys
  #   specified in the dynamic field definition and
  #   not the data values shown to the user.
  DynamicField_Field1      => ['some value'],
  DynamicField_OtherField  => ['some value'],
  DynamicField_TicketFreeText2 => ['some value'],
  # ...
},
# alternatively, ticket properties can be specified in the ticket hash
Ticket => {
  Queue          => ['Raw'],
  State          => ['new', 'open'],
  Priority        => ['some priority'],
  Lock           => ['lock'],
  CustomerID     => ['some id'],
  CustomerUserID => ['some id'],
  Owner          => ['some owner'],
  DynamicField_Field1 => ['some value'],
  DynamicField_MyField => ['some value'],
  # ...
},
},

# match properties (existing values from the database)
PropertiesDatabase => {
  # See section "Properties", the same config can be used here.
  # ...
}

# return possible options (white list)
Possible => {
  # possible ticket options (white list)
  Ticket => {
    Queue => ['Hotline', 'Coordination'],
    State => ['some state'],
    Priority => ['5 very high'],
    DynamicField_Field1 => ['some value'],
    DynamicField_MyField => ['some value'],
    # ...
    NewOwner => ['some owner'],
    OldOwner => ['some owner'],
    # ...
  },
},

```

```

# Limit the number of possible ActivityDialogs the Agent/Customer
# can use in a process ticket.
ActivityDialog => ['AD1', 'AD3'],

# Limit the number of possible Processes that can be started
Process => ['P1', 'P2'],

# possible action options (white list)
Action => {
  AgentTicketBounce      => 1,
  AgentTicketClose       => 1,
  AgentTicketCompose     => 0,
  AgentTicketCustomer    => 0,
  AgentTicketForward     => 0,
  AgentTicketFreeText    => 1,
  AgentTicketHistory     => 1,
  AgentTicketLink        => 0,
  AgentTicketLock        => 1,
  AgentTicketMerge       => 0,
  AgentTicketMove        => 1,
  AgentTicketNote        => 1,
  AgentTicketOwner       => 1,
  AgentTicketPending     => 1,
  AgentTicketPhone       => 1, # only used to hide the Split action
  AgentTicketPhoneInbound => 0,
  AgentTicketPhoneOutbound => 1,
  AgentTicketPrint       => 1,
  AgentTicketPriority     => 0,
  AgentTicketResponsible => 1,
  AgentTicketWatcher     => 1,
  AgentTicketZoom        => 1,
  AgentLinkObject        => 1, # only used to hide the Link action
},
},
# remove options (black list)
PossibleNot => {
  # See section "Possible"
  # ...
},
};

```

Note

While matching ACLs if CustomerUserID parameter sent, the ACL mechanism will compare the defined ACLs using the supplied CustomerUserID to gather the CustomerUser details to fill the CustomerUser hash and it also overrides the Customer information in the Ticket hash for the Properties match. On the other hand this calculations are also made for the PropertiesDatabase part, but using the Ticket Customer as the basis to gather the data.

Notice that in Customer Interface, the CustomerUserID is always sent with the current logged Customer User.

Be aware that in ticket search screens (AgentTicketSearch and CustomerTicketSearch) the only affected attributes by ACLs are the Dynamic Fields. This means that this screens you can not restrict any other attribute like ticket type, state, queue, etc.

2. Process Management

2.1. Introduction

This feature of OTRS allows you to model processes (work-flows) in the ticket system. The basic idea is to be able to define recurring processes, and to delegate work items to

different people, as well as leading the progress of a process in different directions based on certain criteria.

2.2. Example process

Let's see an example to make it more demonstrative. We will define a book order process:

2.2.1. Recording the demand

Before an order will be placed, the demand for literature by an employee will be recorded. The following book is needed in our example:

Title: Prozessmanagement für Dummies
Autor: Thilo Knuppertz
ISBN: 3527703713

2.2.2. Approval by manager

The head of the employee's department needs to decide on the order. In case of a denial, a reason should be recorded by the manager. In case of approval, the order is passed to the purchasing department.

2.2.3. Processing by purchasing department

Purchasing now has the task to find out where the book can be ordered with the best conditions. If it is out of stock, this can be recorded in the order. In case of a successful order purchasing will record the supplier, the price and the delivery date.

2.2.4. Processing by the mail room

The shipment will arrive at the company. The incoming goods department checks the shipment and records the date of receipt. Now the employee will be informed that their order has arrived and is ready to be collected.

2.3. Implementing the example

If we assume that a ticket acts in this work-flow like an accompanying document that can receive change notes, we already have a clear picture of process tickets.

From the analysis of the example process we can identify the following necessary items:

- Possibilities to record data, let's call them *Activity Dialogs*,
- Checks which can react to changed data automatically, let's call them *Transitions*,
- changes which can be applied to a process ticket after successful transitions of a process ticket, let's call them *Transition Actions*.

We also need an additional item which might not be as obvious:

- A possibility to offer more than just one Activity Dialog to be available. In our example this is needed when the manager must have the choice between "Approve" and "Deny". Let's call this *Activity*.

Now, with Activities, Activity Dialogs, Transitions and Transition Actions we have the necessary tools to model the individual steps of our example. What's still missing is an area

where for each work-flow the order of the steps can be specified. Let's call this *Process*. To be able to refer to all these entities later, we will assign to them an abbreviation in parentheses. This abbreviation is based on an internal identification mechanism called EntityIDs.

The EntityIDs are conformed with one or two letters (depending on the process part or entity) and then a consecutive number, examples:

- Process: 'P1', 'P2' ... 'Pn'.
- Activity: 'A1', 'A2' ... 'An'.
- Activity Dialog: 'AD1', 'AD2' ... 'ADn'.
- Transition: 'T1', 'T2' ... 'Tn'.
- Transition Action: 'TA1', 'TA2' ... 'TAn'.

Before the creation of the process and its parts is necessary to prepare the system, we will need to define some Queues, Users and Dynamic Fields as well as set some SysConfig options.

Create the following Queues:

- Management
- Employees
- Purchasing
- Post office

Create the following Users:

- Manager
- Employee

Create the following Dynamic Fields:

- Title

Label	Title
Type	Text
Object	Ticket

- Author

Label	Author
Type	Text
Object	Ticket

- ISBN

Label	ISBN
Type	Text
Object	Ticket

- Status

Label	Status
Type	Dropdown
Object	Ticket
Possible Values	<ul style="list-style-type: none"> • Approval • Approval denied • Approved • Order denied • Order placed • Shipment received

Note: Please use this exactly this possible values for "Key" and "Value" in the Dynamic Field setup.

- Supplier

Label	Supplier
Type	Text
Object	Ticket

- Price

Label	Price
Type	Text
Object	Ticket

- DeliveryDate

Label	Delivery date
Type	Date
Object	Ticket

- DateOfReceipt

Label	Date Of Receipt
Type	Date
Object	Ticket

Set the the following SysConfig settings:

- 'Ticket::Responsible': Yes
- 'Ticket::Frontend::AgentTicketZoom###ProcessWidgetDynamicFieldGroups':

Key:	Content:
Book	Title, Author, ISBN
General	Status
Order	Price, Supplier, DeliveryDate

Key:	Content:
Shipment	DateOfReceipt

- 'Ticket::Frontend::AgentTicketZoom###ProcessWidgetDynamicField':

Key:	Content:
Author	1
DateOfReceipt	1
DeliveryDate	1
ISBN	1
Price	1
Status	1
Supplier	1
Title	1

Now lets start with the real Process Management stuff. In the next step, we will define the individual entities that we need.

2.3.1. Process (as a container)

To create a new process is necessary to click on the "Process Management" link in the System Administration box in the Admin panel, this will lead to the Process Management Overview screen. After the creation of the process we can create all other entities (or process parts).

Note

Activities, Activity Dialogs, Transitions and Transition Actions defined in one process will be available for all the processes in the system.

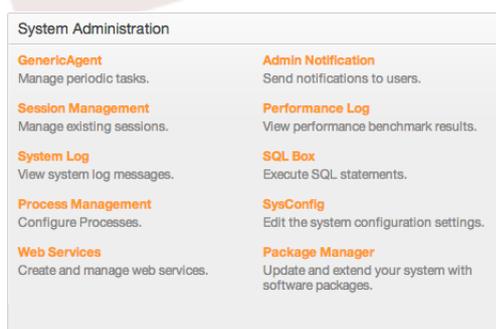


Figure: OTRS Admin screen - System Administration.

Click on the "Create New Process" action from the Actions box.



Figure: Create New Process button.

Fill the process information, set Process Name and the Description, we will leave the process State as "inactive", until we finish all the tasks. Save the process.

Create New Process

Actions

[Go to overview](#)

Description

In this screen, you can create a new process. In order to make the new process available to users, please make sure to set its state to 'Active' and synchronize after completing your work.

Create New Process

★ Process Name:

★ Description:

State:

or

Figure: Add new process.

2.3.2. Activity Dialogs

Click on the new process name in the Process Management Overview Screen, then in the "Available Process Elements" click in "Activity Dialogs" (this action will expand the activity dialog options and will collapse all others doing an accordion like effect), then click on "Create New Activity Dialog".

Available Process Elements

Activities

Activity Dialogs

No data found.

Transitions

Transition Actions

Figure: Create New Activity Dialog button.

In the opened popup screen fill the "Activity dialog Name" as well as the "Description (short)" fields, for this example we will leave all other fields as the default, to assign fields to the Activity Dialog simply drag the required field from the "Available Fields" pool and drop into the "Assigned Fields" pool. The order in the "Assigned Fields" pool is the order as the fields will have in the screen, to modify the order simply drag and drop the field within the pool to rearrange it in the correct place.

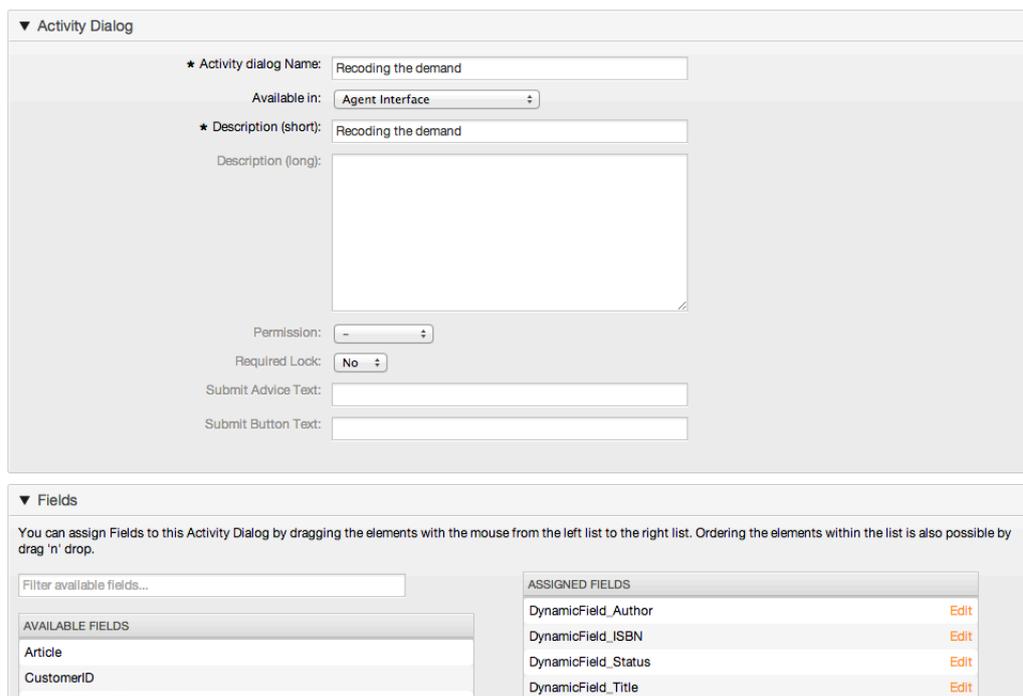


Figure: Add new Activity Dialog.

As soon as the fields are dropped into the "Assigned Fields" pool another popup screen is shown with some details about the field, we will leave the default options and only for Article fields we should make sure that the ArticleType field is set to "note-internal".



Figure: Edit field details (Article).

After all fields are assigned click on the submit button in the main popup screen to save the changes.

In this example we will use Article field for comments, but another option could be to create a TextArea type Dynamic Field, the rest of the mentioned fields in the lines below are the Dynamic Fields that we define before.

Please be aware that in this screen all the Dynamic Fields has the prefix "DynamicField_" as in "DynamicField_Title", Do not confuse with the field "Title" that is the Ticket Title.

Create the following Activity Dialogs:

- "Recoding the demand" (AD1)

An Activity Dialog that contains all the required fields for the data to be collected for the order (Title, Author and ISBN), and a Status field with the possibility to choose "Approval".

- "Approval denied" (AD2)

An Activity Dialog with a comment field (Article) and a Status field with the option "Approval denied".

- "Approved" (AD3)

Here we just need the Status field with the option "Approved".

- "Order denied" (AD4)

An activity dialog which makes it possible for purchasing to reject an impossible order (book out of stock). Here we also need a comment field and the Status field with the option "Order denied".

- "Order placed" (AD5)

An activity dialog with the fields Supplier, Price and Delivery date for purchasing and the Status field with the option "Order placed".

- "Shipment received" (AD6)

An activity for the mail room with a field for the Date of receipt and the Status field with the option "Shipment received".

To restrict the Status field for each activity dialog we need to add some ACLs in the Kernel/Config.pm or to a new perl file located in Kernel/Config/Files.

```

$self->{TicketAcl}->{'P1-AD1-1'} = {
    Properties => {
        Process => {
            ActivityDialogEntityID => ['AD1'],
        },
    },
    Possible => {
        Ticket => {
            DynamicField_Status => ['Approval'],
        },
    },
};

$self->{TicketAcl}->{'P1-AD2-1'} = {
    Properties => {
        Process => {
            ActivityDialogEntityID => ['AD2'],
        },
    },
    Possible => {
        Ticket => {
            DynamicField_Status => ['Approval denied'],
        },
    },
};

$self->{TicketAcl}->{'P1-AD3-1'} = {
    Properties => {
        Process => {
            ActivityDialogEntityID => ['AD3'],
        },
    },
    Possible => {
        Ticket => {
            DynamicField_Status => ['Approved'],
        },
    },
};

```

```

$self->{TicketAcl}->{'P1-AD4-1'} = {
  Properties => {
    Process => {
      ActivityDialogEntityID => ['AD4'],
    },
  },
  Possible => {
    Ticket => {
      DynamicField_Status => ['Order denied'],
    },
  },
};

$self->{TicketAcl}->{'P1-AD5-1'} = {
  Properties => {
    Process => {
      ActivityDialogEntityID => ['AD5'],
    },
  },
  Possible => {
    Ticket => {
      DynamicField_Status => ['Order placed'],
    },
  },
};

$self->{TicketAcl}->{'P1-AD6-1'} = {
  Properties => {
    Process => {
      ActivityDialogEntityID => ['AD6'],
    },
  },
  Possible => {
    Ticket => {
      DynamicField_Status => ['Shipment received'],
    },
  },
};

```

2.3.3. Transitions

In the "Available Process Elements" click in "Transitions", then click on "Create New Transition".

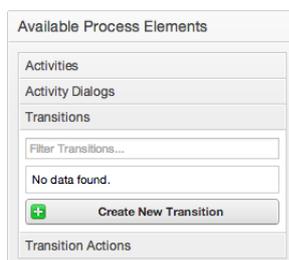


Figure: Create New Transition button.

In the opened popup screen fill the "Transition Name", then in the conditions, for this examples we will use just one condition and just one field, for both we can leave the Type of Linking as "and" and we will use the filed match type value as "String".

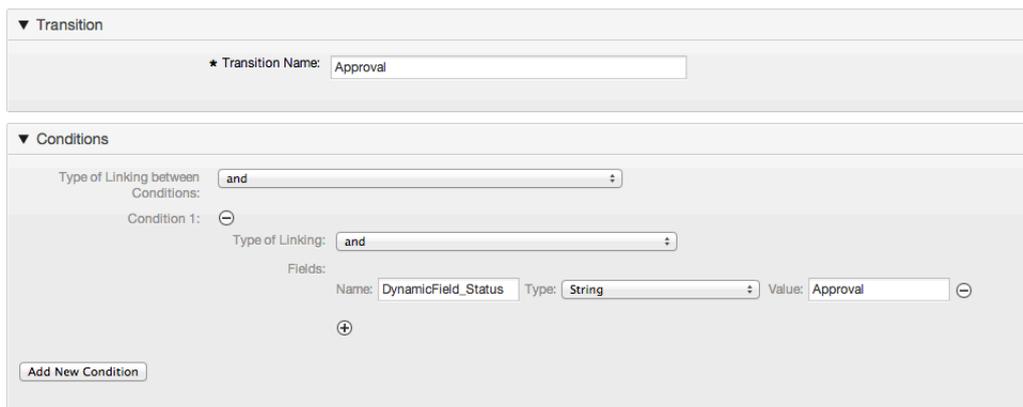


Figure: Add new Transition.

After all conditions are set click on the submit button to save the changes.

Create the following Transitions:

- "Approval" (T1)
A transition which checks if the Status field is set to "Approval".
- "Approval denied" (T2)
A transition which checks if the Status field is set to "Approval denied".
- "Approved" (T3)
A transition which checks if the Status field is set to "Approved".
- "Order denied" (T4)
A transition which checks if the Status field is set to "Order denied".
- "Order placed" (T5)
A transition which checks if the Status field is set to "Order placed".
- "Shipment received" (T6)
A transition which checks if the Status field is set to "Shipment received".

2.3.4. Transition Actions

Click on "Transition Actions" in the "Available Process Elements", then click on "Create New Transition Action".

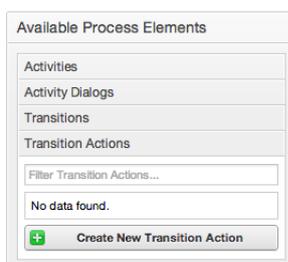


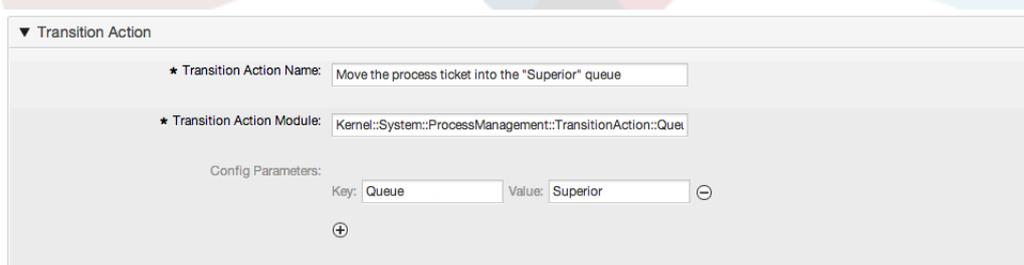
Figure: Create New Transition Action button.

In the opened popup screen fill the "Transition Name", and the "Transition Action module" then add the required and optional parameter names and values.

All the Transition Action Modules are located in Kernel/System/ProcessManagement/TransitionAction and the following is the list of bundled Transition Actions included in this release

- DynamicFieldSet
- TicketArticleCreate
- TicketCustomerSet
- TicketLockSet
- TicketOwnerSet
- TicketQueueSet
- TicketResponsibleSet
- TicketServiceSet
- TicketSLASet
- TicketStateSet
- TicketTitleSet
- TicketTypeSet

Each module has its own and different parameters. Please review the module documentation to learn all require and optional parameters.



▼ Transition Action

★ Transition Action Name:

★ Transition Action Module:

Config Parameters:

Key: Value: ⊖

⊕

Figure: Add new Transition Action.

After all parameters and values are set click on the submit button to save the changes.

Create the following Transitions Actions:

- "Move the process ticket into the 'Management' queue" (TA1)
This action is supposed to be executed when the Transition "Approval" (T1) applied.
- "Change ticket responsible to 'manager'" (TA2)
To be executed when the Transition "Approval" (T1) applied.
- "Move the process ticket into the 'Employees' queue'" (TA3)

To be executed when:

- The Transition "Approval denied" (T2) applied
- The Transition "Order denied" (T4) applied
- The Transition "Shipment received" (T6) applied
- "Change ticket responsible to 'Employee'" (TA4)

To be executed when:

- The transition "Approval denied" (T2) applied
- The transition "Order denied" (T4) applied
- The transition "Shipment received" (T6) applied
- "Move process ticket into the 'Purchasing' queue" (TA5)

To be executed when the transition "Approved" (T3) applied.

- "Move process ticket into the 'Post office' queue" (TA6)

To be executed when the transition "Order placed" (T5) applied.

- "Close ticket successfully" (TA7)

To be executed when:

- The transition "Shipment received" (T6) applied
- "Close ticket unsuccessfully" (TA8)

To be executed when:

- The transition "Approval denied" (T2) applied
- The transition "Order denied" (T4) applied

As you can see, there are places where the same Transition Actions should be executed. Therefore it is reasonable to make it possible to link Transition Actions freely with Transitions to be able to reuse them.

2.3.5. Activities

We chose the approach to see Activities as a basket which can contain one or more Activity Dialogs.

Click on "Activities" in the "Available Process Elements", then click on "Create New Activity".

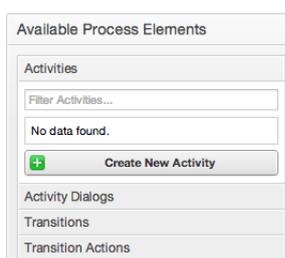


Figure: Create New Activity button.

In the opened popup screen fill the "Activity Name", Then drag the required Activity Dialogs from the "Available Activity Dialogs" pool, and drop them into the "Assigned Activity Dialogs" pool. These dialogs will be presented (in the ticket zoom screen) in the same order as it is defined on this screen translating from top to bottom, to left to right.

This order is specially important in the first Activity, since the first Activity Dialog for this activity is the only one that is presented when the process starts

Create the following Activities:

- "Recording the demand" (A1)
Contains the Activity Dialog "Recording the demand" (AD1)
- "Approval" (A2)
Contains the Activity Dialogs "Approval denied" (AD2) as well as "Approved" (AD3)
- "Order" (A3)
Contains the Activity Dialogs "Order rejected" (AD4) as well as "Order placed" (AD5)
- "Incoming" (A4)
Contains the Activity Dialog "Shipment received" (AD6)
- "Process complete" (A5): This is an Activity without possible Activity Dialogs. It will be set after "Approval denied", "Order denied" or "Shipment received" and represents the end of the process.

Now we can clearly see that Activities are precisely defined states of a process ticket. After a successful Transition a process ticket moves from one Activity to another.

2.3.6. Book ordering process Path

Let us conclude our example with the last missing piece in the puzzle, the Process as the a flow describer. In our case this is the whole ordering work-flow. Other processes could be office supply ordering or completely different processes.

The process has a starting point which consists of the start Activity and the start Activity Dialog. For any new book order, the start Activity Dialog (first Activity Dialog for the first Activity) is the first screen that is displayed. If this is completed and saved, the Process ticket will be created and can follow the configured work-flow.

The process also contains the directions for how the process ticket can move through the Process. Let's call this the "Path". It consists of the start Activity, one or more Transitions (possibly with Transition Actions), and other Activities.

Assuming that the Activities has already assigned their Activity Dialogs drag an Activity from the accordion (in the left part of the screen) and drop it into the canvas area (below process information). Notice that an arrow from the process start (green circle) to the Activity is placed automatically. (This is the first Activity and its first Activity Dialog is the first screen that will be shown when the process starts).

Available Process Elements

Activities

Filter Activities...

- Recording the demand ✎ 🗑
- Approval ✎ 🗑
- Order ✎ 🗑
- Incoming ✎ 🗑
- Process complete ✎ 🗑

+ Create New Activity

Activity Dialogs

Transitions

Transition Actions

Description

The Elements listed above in this sidebar can be moved to the canvas area on the right by using drag'n'drop.

Activities: You can place Activities on the canvas area to assign this Activity to the Process.

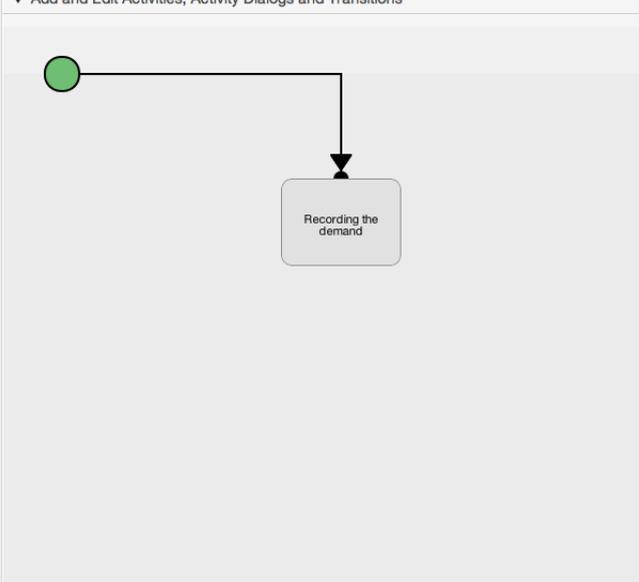
Activity Dialogs: To assign an Activity Dialog to an Activity drop the Activity Dialog element from this sidebar over the Activity placed in the canvas area.

Transitions: You can start a connection between to Activities by dropping the Transition element over the Start Activity of the connection. After that you can move the loose end of the arrow to the End Activity.

Transition Actions: Actions can be assigned to a Transition by dropping the Action Element onto the label of a Transition.

State: Inactive

▼ Add and Edit Activities, Activity Dialogs and Transitions



Save or Save and finish or Cancel

Figure: Drag first Activity into the canvas.

Next, drag another Activity into the canvas too. now we will have two Activities in the canvas the first one is connected to the start point and the second has no connections, you can hover the mouse over each activity to reveal their own Activity Dialogs.

Available Process Elements

Activities

Filter Activities...

- Recording the demand ✎ 🗑
- Approval ✎ 🗑
- Order ✎ 🗑
- Incoming ✎ 🗑
- Process complete ✎ 🗑

+ Create New Activity

Activity Dialogs

Transitions

Transition Actions

Description

The Elements listed above in this sidebar can be moved to the canvas area on the right by using drag'n'drop.

Activities: You can place Activities on the canvas area to assign this Activity to the Process.

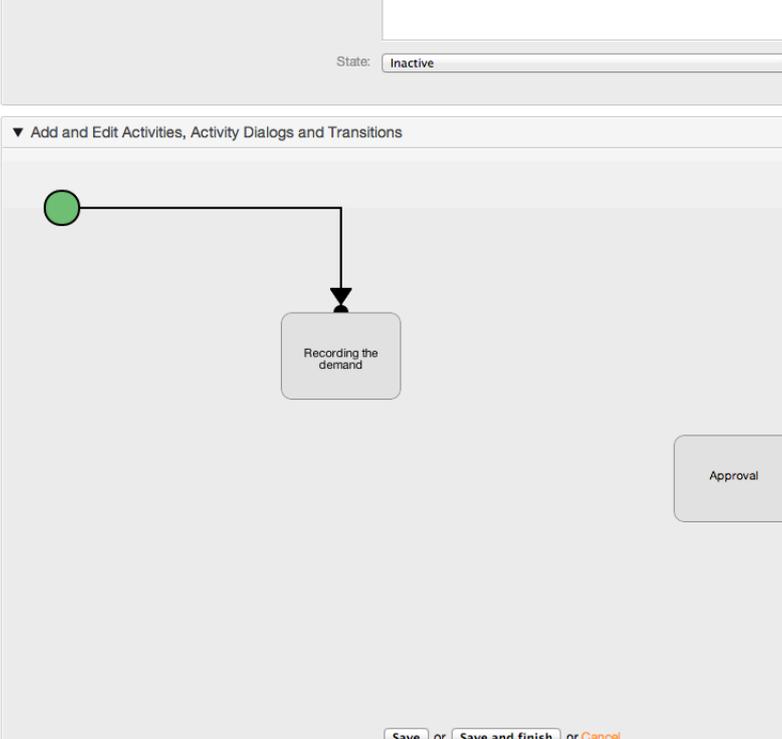
Activity Dialogs: To assign an Activity Dialog to an Activity drop the Activity Dialog element from this sidebar over the Activity placed in the canvas area.

Transitions: You can start a connection between to Activities by dropping the Transition element over the Start Activity of the connection. After that you can move the loose end of the arrow to the End Activity.

Transition Actions: Actions can be assigned to a Transition by dropping the Action Element onto the label of a Transition.

State: Inactive

▼ Add and Edit Activities, Activity Dialogs and Transitions



Save or Save and finish or Cancel

Figure: Drag second Activity into the canvas.

Then let's create the "Path" (connection) between this two Activities, for this we will use the Transitions, Click on Transitions in the accordion drag a Transition and drop it inside the first Activity, notice that the Activity change its color indicating that the Transition is attached, as soon as the Transition is dropped the end point of the Transition arrow will be placed next to the process start point. Drag the Transition arrow end point and drop it inside the other Activity to create the connection between the Activities.

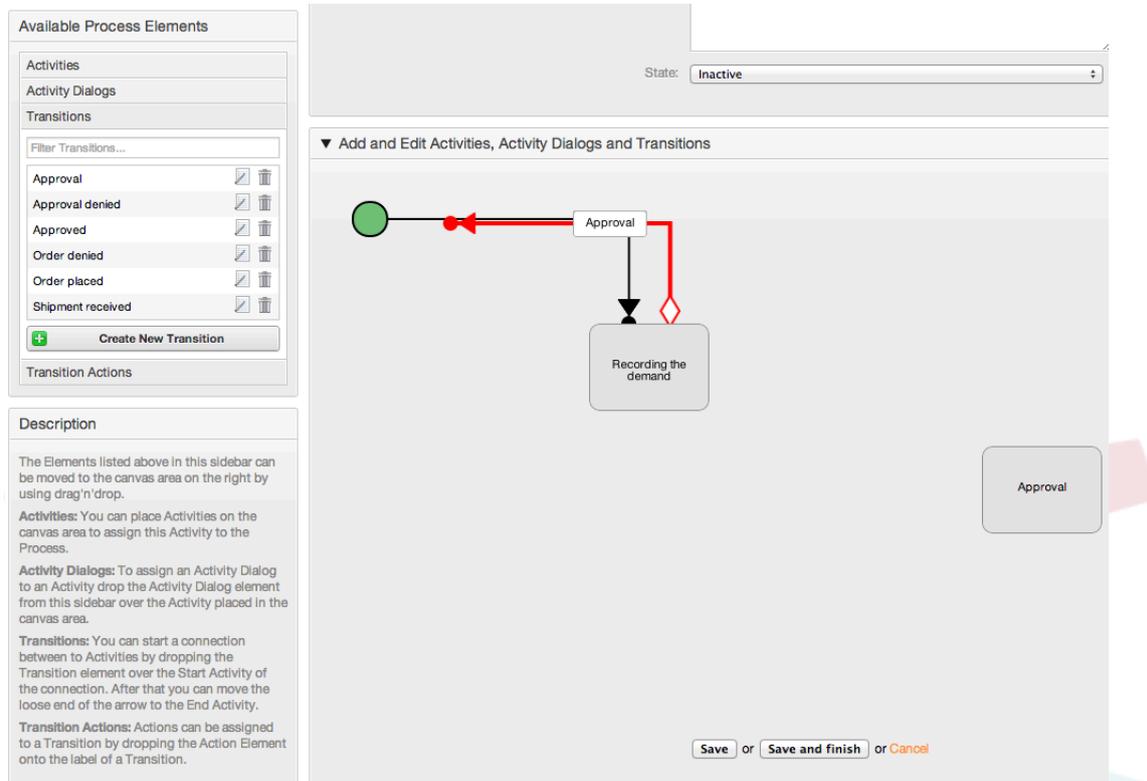


Figure: Drag a Transition into the canvas.

Now that the "Path" between the Actions is defined, then we need to assign the Transition Actions to the Transition, double click the Transition label (in the canvas), this will open a new popup window.

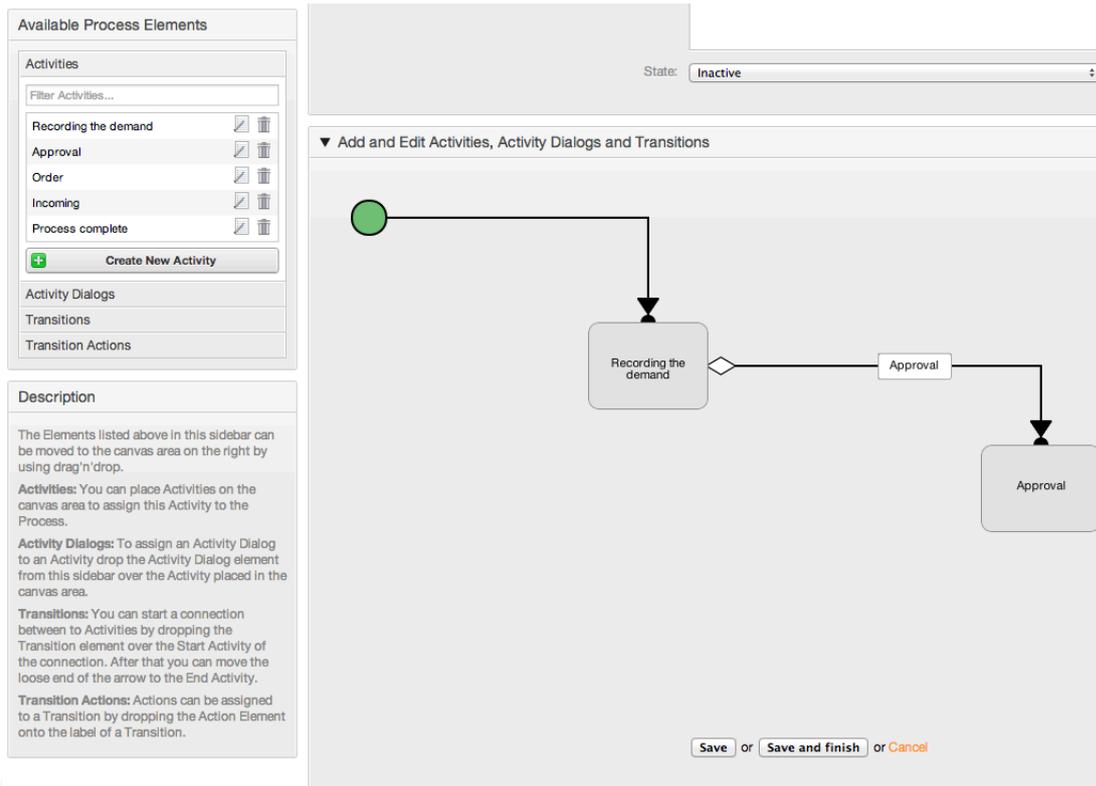


Figure: Connect Activities using Transitions.

Drag the needed Transition Actions from Available Transition Actions pool and drop them into the Assigned Transition Actions pool and click on submit button.

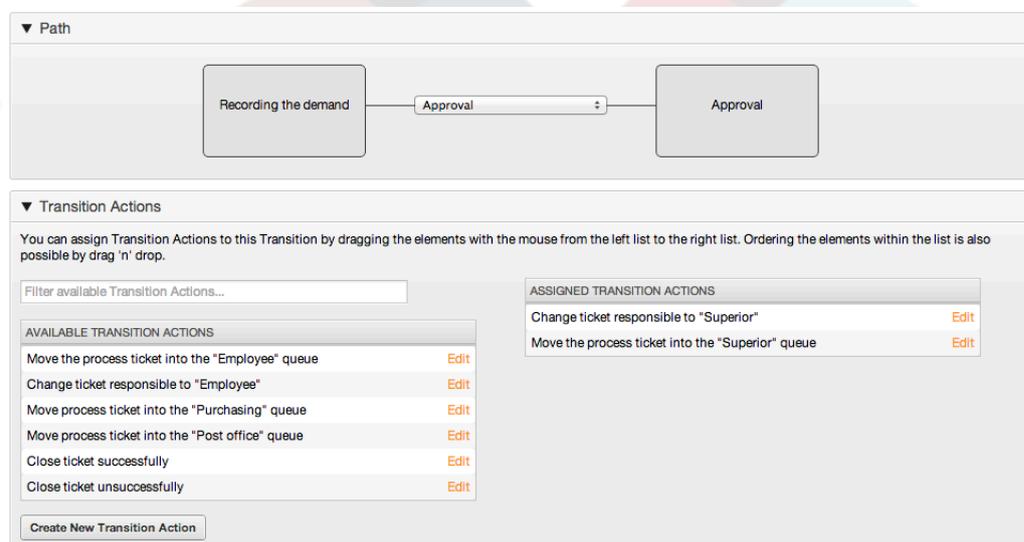


Figure: Assign Transition Actions.

Then back in the main process edit screen click on save button below the canvas to save all other changes.

Complete the "path" adding the following Activities, Transitions and Transition Actions:

Recording the demand until "Approval"

- Starting point: Activity: Recording the demand (A1)

- Possible Transition: Approval (T1)
 - If the condition of this activity is fulfilled, the ticket will move to Activity: Approval (A2)
 - Additionally, the following TransitionActions are executed:
 - "Moving the ticket into the 'Management' Queue" (TA1)
 - "Set ticket responsible to 'manager'" (TA2)

The Activity: "Recording the demand" (A1) is a defined step of the process ticket, where there is the possibility for the Transition: "Approval" (T1). If this applies, the ticket will move to the next Activity: "Approval" (A2), and the Transition Actions: "Moving the ticket into the 'Management' Queue" (TA1) and "Set ticket responsible to 'manager'" (TA2) are executed. In the Activity: "Approval" (A2), the Activity Dialogs: "Approval denied" (AD2) and "Approved" (AD3) are available.

Approval

- Starting Point: Activity "Approval" (A2)
- Possible Transitions:
 - "Approval denied" (T2)
 - If this matches, the process ticket will move to Activity:"Process complete" (A5).
 - Additionally, the following Transition Actions are executed:
 - "Move process ticket to the 'Employees' Queue" (TA3)
 - "Set ticket responsible to 'Employee'" (TA4)
 - "Close ticket unsuccessfully" (TA8)
- "Approved" (T3)
 - If this matches, the process ticket will move to Activity: "Order" (A3).
 - Additionally, the following Transition Action is executed:
 - "Move process ticket to 'Purchasing' Queue" (TA5)

We can see that from the current Activity, which defines a step of the process ticket, there are one or more possibilities for Transition which have exactly one target Activity (and possibly one or more Transition Actions).

Order

- Starting Point: Activity "Order" (A3)
- Possible Transitions:
 - "Order denied" (T4)
 - If this matches, the process ticket will move to Activity:"Process complete" (A5).
 - Additionally, the following Transition Actions are executed:
 - "Move process ticket to the 'Employees' Queue" (TA3)
 - "Set ticket responsible to 'Employee'" (TA4)
 - "Close ticket unsuccessfully" (TA8)

- "Order placed" (T5)
 - If this matches, the process ticket will move to Activity: "Incoming" (A5).
 - Additionally, the following Transition Action is executed:
 - "Move process ticket to 'Post office' Queue" (TA6)

Incoming

- Starting Point: Activity "Incoming" (A4)
- Possible Transitions:
 - "Shipment received" (T6)
 - If this matches, the process ticket will move to Activity: "Process complete" (A5).
 - Additionally, the following Transition Actions are executed:
 - "Move process ticket to the 'Employees' Queue" (TA3)
 - "Set ticket responsible to 'Employee'" (TA4)
 - "Close ticket successfully" (TA7)

The complete Path for the book ordering Process will then look like this:

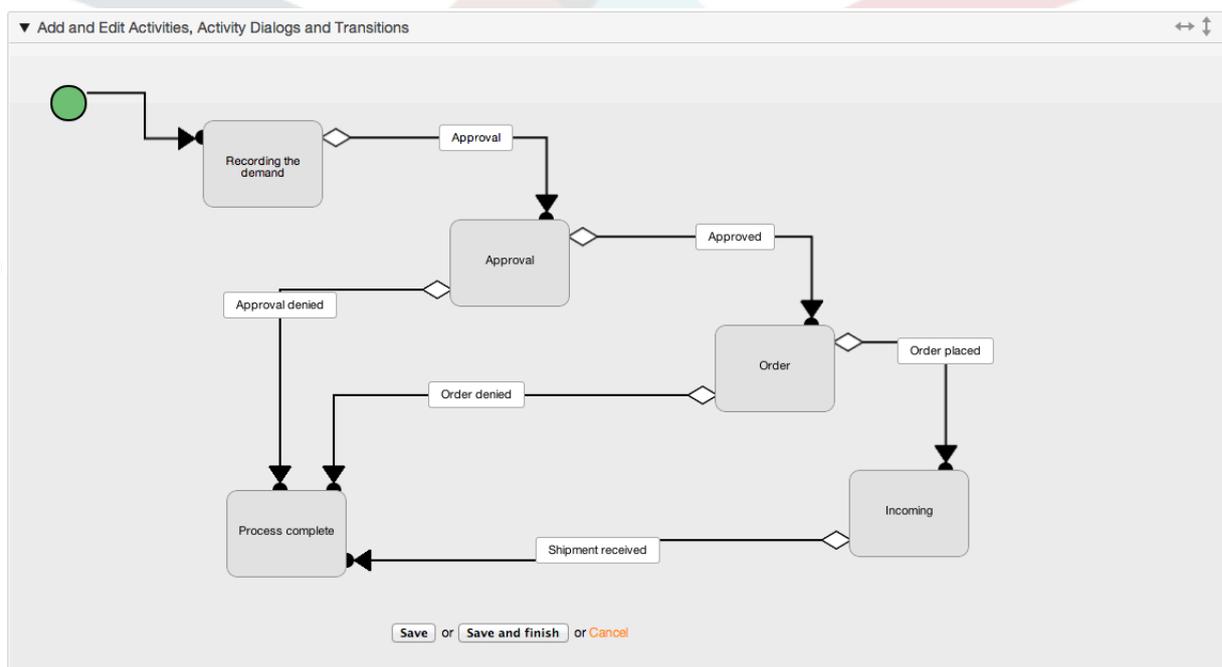


Figure: Book ordering complete process path.

After you finish the process path please click on "Save" button in the lower part of the canvas and then click on "Synchronize All Processes" button. This will gather all processes information from the Database and create a cache file (in Perl language). This cache file is actually the processes configuration that the system will use to create or use process tickets.

Any change that is made of the process (in the GUI) will require to re-synchronize the cache file in order to get the change reflected in the system.

It is also possible to import the whole process from a YAML file, but it is still necessary to create all Dynamic Fields, Users, Queues, etc that are needed by each process before the import.

Notice that if the process requires the use of ACLs those are also needed to be set manually.

The following is the complete YAML file for the book ordering process example:

```

---
Activities:
  A1:
    ActivityDialogs:
      - AD1
    ChangeTime: 2012-11-23 14:49:22
    Config:
      ActivityDialog:
        1: AD1
    CreateTime: 2012-11-23 11:49:38
    EntityID: A1
    ID: 151
    Name: Recording the demand
  A2:
    ActivityDialogs:
      - AD2
      - AD3
    ChangeTime: 2012-12-13 00:55:12
    Config:
      ActivityDialog:
        1: AD2
        2: AD3
    CreateTime: 2012-11-23 11:50:11
    EntityID: A2
    ID: 152
    Name: Approval
  A3:
    ActivityDialogs:
      - AD4
      - AD5
    ChangeTime: 2012-11-23 18:12:14
    Config:
      ActivityDialog:
        1: AD4
        2: AD5
    CreateTime: 2012-11-23 11:50:35
    EntityID: A3
    ID: 153
    Name: Order
  A4:
    ActivityDialogs:
      - AD6
    ChangeTime: 2012-11-23 18:12:35
    Config:
      ActivityDialog:
        1: AD6
    CreateTime: 2012-11-23 11:51:00
    EntityID: A4
    ID: 154
    Name: Incoming
  A5:
    ActivityDialogs: []
    ChangeTime: 2012-11-23 11:51:33
    Config: {}
    CreateTime: 2012-11-23 11:51:33
    EntityID: A5
    ID: 155
    Name: Process complete
ActivityDialogs:
  AD1:
    ChangeTime: 2012-12-06 02:16:21

```

```

Config:
  DescriptionLong: ''
  DescriptionShort: Recoding the demand
  FieldOrder:
    - DynamicField_Author
    - DynamicField_ISBN
    - DynamicField_Title
    - DynamicField_Status
  Fields:
    DynamicField_Author:
      DefaultValue: ''
      DescriptionLong: ''
      DescriptionShort: ''
      Display: 1
    DynamicField_ISBN:
      DefaultValue: ''
      DescriptionLong: ''
      DescriptionShort: ''
      Display: 1
    DynamicField_Status:
      DefaultValue: ''
      DescriptionLong: ''
      DescriptionShort: ''
      Display: 1
    DynamicField_Title:
      DefaultValue: ''
      DescriptionLong: ''
      DescriptionShort: ''
      Display: 1
  Interface:
    - AgentInterface
  Permission: ''
  RequiredLock: 0
  SubmitAdviceText: ''
  SubmitButtonText: ''
  CreateTime: 2012-11-23 14:34:43
  EntityID: AD1
  ID: 154
  Name: Recording the demand
AD2:
  ChangeTime: 2012-11-23 14:57:41
  Config:
    DescriptionLong: ''
    DescriptionShort: Approval denied
    FieldOrder:
      - Article
      - DynamicField_Status
    Fields:
      Article:
        Config:
          ArticleType: note-internal
          DefaultValue: ''
          DescriptionLong: ''
          DescriptionShort: ''
          Display: 1
        DynamicField_Status:
          DefaultValue: ''
          DescriptionLong: ''
          DescriptionShort: ''
          Display: 1
      Interface:
        - AgentInterface
    Permission: ''
    RequiredLock: 0
    SubmitAdviceText: ''
    SubmitButtonText: Deny Request
  CreateTime: 2012-11-23 14:36:39
  EntityID: AD2
  ID: 155
  Name: Approval denied
AD3:
  ChangeTime: 2012-12-14 03:14:23

```

```
Config:
  DescriptionLong: ''
  DescriptionShort: Approved
  FieldOrder:
    - DynamicField_Status
  Fields:
    DynamicField_Status:
      DefaultValue: ''
      DescriptionLong: ''
      DescriptionShort: ''
      Display: 1
  Interface:
    - AgentInterface
  Permission: ''
  RequiredLock: 0
  SubmitAdviceText: ''
  SubmitButtonText: Approve Request
  CreateTime: 2012-11-23 14:37:35
  EntityID: AD3
  ID: 156
  Name: Approved
AD4:
  ChangeTime: 2012-11-23 14:58:52
  Config:
    DescriptionLong: ''
    DescriptionShort: Order rejected
    FieldOrder:
      - Article
      - DynamicField_Status
    Fields:
      Article:
        Config:
          ArticleType: note-internal
          DefaultValue: ''
          DescriptionLong: ''
          DescriptionShort: ''
          Display: 1
        DynamicField_Status:
          DefaultValue: ''
          DescriptionLong: ''
          DescriptionShort: ''
          Display: 1
      Interface:
        - AgentInterface
    Permission: ''
    RequiredLock: 0
    SubmitAdviceText: ''
    SubmitButtonText: Reject Order
  CreateTime: 2012-11-23 14:38:48
  EntityID: AD4
  ID: 157
  Name: Order rejected
AD5:
  ChangeTime: 2012-12-06 02:20:12
  Config:
    DescriptionLong: ''
    DescriptionShort: Order placed
    FieldOrder:
      - DynamicField_DeliveryDate
      - DynamicField_Price
      - DynamicField_Supplier
      - DynamicField_Status
    Fields:
      DynamicField_DeliveryDate:
        DefaultValue: ''
        DescriptionLong: ''
        DescriptionShort: ''
        Display: 1
      DynamicField_Price:
        DefaultValue: ''
        DescriptionLong: ''
        DescriptionShort: ''
```

```

    Display: 1
    DynamicField_Status:
      DefaultValue: ''
      DescriptionLong: ''
      DescriptionShort: ''
      Display: 1
    DynamicField_Supplier:
      DefaultValue: ''
      DescriptionLong: ''
      DescriptionShort: ''
      Display: 1
  Interface:
    - AgentInterface
  Permission: ''
  RequiredLock: 0
  SubmitAdviceText: ''
  SubmitButtonText: Place Order
  CreateTime: 2012-11-23 14:41:28
  EntityID: AD5
  ID: 158
  Name: Order placed
AD6:
  ChangeTime: 2012-11-23 14:42:43
  Config:
    DescriptionLong: ''
    DescriptionShort: Shipment received
    FieldOrder:
      - DynamicField_DateOfReceipt
      - DynamicField_Status
    Fields:
      DynamicField_DateOfReceipt:
        DefaultValue: ''
        DescriptionLong: ''
        DescriptionShort: ''
        Display: 1
      DynamicField_Status:
        DefaultValue: ''
        DescriptionLong: ''
        DescriptionShort: ''
        Display: 1
    Interface:
      - AgentInterface
  Permission: ''
  RequiredLock: 0
  SubmitAdviceText: ''
  SubmitButtonText: ''
  CreateTime: 2012-11-23 14:42:43
  EntityID: AD6
  ID: 159
  Name: Shipment received
Process:
  Activities:
    - A1
    - A2
    - A3
    - A4
    - A5
  ChangeTime: 2012-12-06 02:31:59
  Config:
    Description: The process to order a book
    Path:
      A1:
        T1:
          ActivityEntityID: A2
          TransitionAction:
            - TA2
            - TA1
      A2:
        T2:
          ActivityEntityID: A5
          TransitionAction:
            - TA3

```

```
- TA4
- TA8
T3:
  ActivityEntityID: A3
  TransitionAction:
    - TA5
A3:
  T4:
    ActivityEntityID: A5
    TransitionAction:
      - TA3
      - TA4
      - TA8
  T5:
    ActivityEntityID: A4
    TransitionAction:
      - TA6
A4:
  T6:
    ActivityEntityID: A5
    TransitionAction:
      - TA3
      - TA4
      - TA7
A5: {}
StartActivity: A1
StartActivityDialog: AD1
CreateTime: 2012-11-23 11:45:12
EntityID: P1
ID: 94
Layout:
  A1:
    left: 172
    top: 63
  A2:
    left: 402
    top: 156
  A3:
    left: 649
    top: 255
  A4:
    left: 774
    top: 391
  A5:
    left: 194
    top: 410
Name: Book ordering
State: Active
StateEntityID: S1
TransitionActions:
  - TA1
  - TA2
  - TA3
  - TA4
  - TA8
  - TA5
  - TA3
  - TA4
  - TA8
  - TA6
  - TA3
  - TA4
  - TA7
Transitions:
  - T1
  - T2
  - T3
  - T4
  - T5
  - T6
TransitionActions:
  TA1:
```

```
ChangeTime: 2012-11-23 16:01:37
Config:
  Queue: Management
  Module: Kernel::System::ProcessManagement::TransitionAction::TicketQueueSet
CreateTime: 2012-11-23 15:50:59
EntityID: TA1
ID: 61
Name: Move the process ticket into the "Management" queue
TA2:
ChangeTime: 2012-11-23 16:02:12
Config:
  Responsible: manager
  Module: Kernel::System::ProcessManagement::TransitionAction::TicketResponsibleSet
CreateTime: 2012-11-23 15:58:22
EntityID: TA2
ID: 62
Name: Change ticket responsible to "manager"
TA3:
ChangeTime: 2012-11-24 14:27:02
Config:
  Queue: Employees
  Module: Kernel::System::ProcessManagement::TransitionAction::TicketQueueSet
CreateTime: 2012-11-23 16:02:54
EntityID: TA3
ID: 63
Name: Move the process ticket into the "Employees" queue
TA4:
ChangeTime: 2012-11-23 16:04:06
Config:
  Responsible: Employee
  Module: Kernel::System::ProcessManagement::TransitionAction::TicketResponsibleSet
CreateTime: 2012-11-23 16:04:06
EntityID: TA4
ID: 64
Name: Change ticket responsible to "Employee"
TA5:
ChangeTime: 2012-12-06 02:18:34
Config:
  Queue: Purchasing
  Module: Kernel::System::ProcessManagement::TransitionAction::TicketQueueSet
CreateTime: 2012-11-23 16:04:54
EntityID: TA5
ID: 65
Name: Move process ticket into the "Purchasing" queue
TA6:
ChangeTime: 2012-12-06 02:18:48
Config:
  Queue: Post office
  Module: Kernel::System::ProcessManagement::TransitionAction::TicketQueueSet
CreateTime: 2012-11-23 16:06:20
EntityID: TA6
ID: 66
Name: Move process ticket into the "Post office" queue
TA7:
ChangeTime: 2012-12-06 02:29:55
Config:
  State: closed successful
  Module: Kernel::System::ProcessManagement::TransitionAction::TicketStateSet
CreateTime: 2012-12-06 02:29:27
EntityID: TA7
ID: 67
Name: Close ticket successfully
TA8:
ChangeTime: 2012-12-06 02:31:12
Config:
```

```
Config:
  State: closed unsuccessful
  Module: Kernel::System::ProcessManagement::TransitionAction::TicketStateSet
  CreateTime: 2012-12-06 02:31:12
  EntityID: TA8
  ID: 68
  Name: Close ticket unsuccessfully
Transitions:
T1:
  ChangeTime: 2012-11-23 15:12:20
  Config:
    Condition:
      1:
        Fields:
          DynamicField_Status:
            Match: Approval
            Type: String
          Type: and
        ConditionLinking: and
  CreateTime: 2012-11-23 11:53:52
  EntityID: T1
  ID: 94
  Name: Approval
T2:
  ChangeTime: 2012-11-23 15:12:50
  Config:
    Condition:
      1:
        Fields:
          DynamicField_Status:
            Match: Approval denied
            Type: String
          Type: and
        ConditionLinking: and
  CreateTime: 2012-11-23 11:54:26
  EntityID: T2
  ID: 95
  Name: Approval denied
T3:
  ChangeTime: 2012-11-23 15:13:29
  Config:
    Condition:
      1:
        Fields:
          DynamicField_Status:
            Match: Approved
            Type: String
          Type: and
        ConditionLinking: and
  CreateTime: 2012-11-23 11:54:54
  EntityID: T3
  ID: 96
  Name: Approved
T4:
  ChangeTime: 2012-11-23 15:14:08
  Config:
    Condition:
      1:
        Fields:
          DynamicField_Status:
            Match: Order denied
            Type: String
          Type: and
        ConditionLinking: and
  CreateTime: 2012-11-23 11:55:25
  EntityID: T4
  ID: 97
  Name: Order denied
T5:
  ChangeTime: 2012-11-23 18:30:33
  Config:
    Condition:
```

```

1:
  Fields:
    DynamicField_Status:
      Match: Order placed
      Type: String
    Type: and
  ConditionLinking: and
  CreateTime: 2012-11-23 11:56:15
  EntityID: T5
  ID: 98
  Name: Order placed
T6:
  ChangeTime: 2012-11-23 15:15:30
  Config:
    Condition:
      1:
        Fields:
          DynamicField_Status:
            Match: Shipment received
            Type: String
          Type: and
        ConditionLinking: and
      CreateTime: 2012-11-23 11:56:48
      EntityID: T6
      ID: 99
      Name: Shipment received
  
```

2.4. Process configuration reference

2.4.1. Process

A Process models the path of a workflow/process. The waypoints on this path can be Activities or Transitions, we'll talk about these later.

2.4.1.1. Process configuration

The Process configuration can be done in the file Kernel/Config.pm but it is strongly recommended to create new files like Kernel/Config/Files/MyProcess.pm. notice that the GUI generates the file Kernel/Config/File/ZZZProcessManagement please avoid to use that filename, otherwise it will be overwritten when you sync processes. Let's see an example process configuration (from process cache file):

```

$self->{'Process'} = {
  'P1' => {
    Name           => 'Book order',
    CreateTime     => '16-02-2012 13:37:00',
    CreateBy      => '1',
    ChangeTime    => '17-02-2012 13:37:00',
    ChangeBy      => '1',
    State         => 'Active',
    StartActivity => 'A1',
    StartActivityDialog => 'AD1',
    Path => {
      'A1' => {
        'T1' => {
          ActivityEntityID => 'A2',
        },
      },
      'A2' => {
        'T2' => {
          ActivityEntityID => 'A3',
        },
      },
    },
  },
},

```

```

'P2' => {
  Name           => 'IT order',
  CreateTime     => '26-02-2012 13:37:00',
  CreateBy       => '1',
  ChangeTime     => '27-02-2012 13:37:00',
  ChangeBy       => '1',
  State          => 'Active',
  StartActivity  => 'A2',
  StartActivityDialog => 'AD2',
  Path => {
    'A2' => {
      'T3' => {
        ActivityEntityID => 'A4',
      },
    },
  },
},
};

```

2.4.1.2. Name

The name of the process, this can be selected by the agent when creating a new process ticket.

2.4.1.3. CreateTime

The time when the process was created.

2.4.1.4. CreateBy

The UID of the user creating the process.

2.4.1.5. ChangeTime

The time when the process was changed.

2.4.1.6. ChangeBy

The UID of the user who made the last change to the process.

2.4.1.7. State

Defines the state of a process. Possible values:

- 'Active' are all processes which can be used in new process tickets.
- 'FadeAway' are processes which cannot be selected any more for new tickets, but existing tickets still can use the process.
- 'Inactive' processes are deactivated and cannot be used for new or existing tickets.

2.4.1.8. StartActivity

When creating a new process ticket, a StartActivity must be defined. As soon as the ticket is created, this Activity will be set and used as the base for the first transition checks.

2.4.1.9. StartActivityDialog

For new process tickets, a StartActivityDialog must be defined. This will be shown when creating a new process ticket (after the process was selected). At this point, the ticket does not exist yet, it will be created after submitting the StartActivityDialog.

2.4.1.10. Path

The Path contains the structure of the Activities, and the possible Transitions between them, for the current process. And also the Transition Actions that happens when transitioning . This controls the way that a process ticket can take. Example:

```
'A1' => {
  'T1' => {
    ActivityEntityID => 'A2',
  },
  'T2' => {
    ActivityEntityID => 'A3',
  },
  'T3' => {
    ActivityEntityID => 'A4',
    TransitionAction => ['TA1', 'TA2'],
  },
},
```

If a process ticket is in Activity 'A1', it has three possible ways to get to another Activity. In the Transitions 'T1' to 'T3', conditions are defined, that a process ticket must fulfill to move (transit) to another Activity.

If in this case all the values of the process ticket and its dynamic fields that are needed for the Transition 'T2' are correct, the ticket will be moved from Activity 'A1' to 'A3'. After an ActivityDialog is submitted, or any other change is made to a ticket, it will be checked for possible Transitions from the current Activity. If multiple Transitions are possible, the first one will be used (based on numerical sorting of the TransitionIDs).

Additionally, it is possible to assign Transition Actions to Transitions in the Path configuration. These are modules which are executed after a successful Transition. They have to be specified in array form as in the example, we'll talk about the details later.

2.4.2. Activity

An Activity contains one or more Activity Dialogs and models a 'step' in the process. All Activity Dialogs of the current Activity are displayed in the ticket zoom and can be used until the conditions of a Transition are fulfilled.

2.4.2.1. Activity configuration

Let's see an example activity configuration:

```
$Self->{'Process::Activity'} =
{
  'A1' => {
    Name      => 'Activity 1 optional',
    CreateTime => '16-02-2012 13:37:00',
    CreateBy  => '1',
    ChangeTime => '17-02-2012 13:37:00',
    ChangeBy  => '1',
    ActivityDialog => {
      1 => 'AD1',
    },
  },
  'A2' => {
    Name      => 'Activity 2 optional',
    CreateTime => '16-02-2012 13:37:00',
    CreateBy  => '1',
    ChangeTime => '17-02-2012 13:37:00',
    ChangeBy  => '1',
    ActivityDialog => {
      1 => 'AD5',
    },
  },
}
```

```

    2 => 'AD6',
    3 => 'AD1',
  },
};

```

2.4.2.2. Name

The name of the activity.

2.4.2.3. CreateTime

The time when it was created.

2.4.2.4. CreateBy

UID of the user who created the Activity.

2.4.2.5. ChangeTime

The last time when it was changed.

2.4.2.6. ChangeBy

UID of the last user who changed the Activity.

2.4.2.7. ActivityDialog

Activity Dialog contains the list of Activity Dialogs which are available in this Activity. All Activity Dialogs of the current Activity are displayed in the ticket zoom. Their order is set by the order in the configuration, here 'AD5' is shown before 'AD6' and 'AD1'.

2.4.3. ActivityDialog

An Activity Dialog is a particular screen and can be used in different Activities.

2.4.3.1. ActivityDialog configuration

Let's see an example config

```

$self->{'Process::ActivityDialog'} = {
  'AD1' => {
    Name           => 'ActivityDialog 1 optional',
    DescriptionShort => 'Basic info',
    DescriptionLong => 'Please insert the necessary basic information for IT orders',
    CreateTime     => '28-02-2012 13:37:00',
    CreateBy       => '1',
    ChangeTime     => '29-02-2012 13:37:00',
    ChangeBy       => '1',
    Fields => {
      PriorityID => {
        DescriptionShort => 'Priority ID',
        DescriptionLong  => 'Enter the priority here',
        Display          => 2,
      },
    },
    FieldOrder     => [ 'PriorityID' ],
    SubmitAdviceText => 'Note: If you submit the form...',
    SubmitButtonText => 'Send request',
  },
  'AD2' => {
    Name => 'ActivityDialog 2 optional',

```

```

    DescriptionShort => 'Basic info',
    DescriptionLong => 'Please insert the necessary basic information for Book
orders',
    CreateTime      => '28-02-2012 13:37:00',
    CreateBy       => '1',
    ChangeTime     => '29-02-2012 13:37:00',
    ChangeBy      => '1',
    Fields => {
      StateID => {
        DescriptionShort => 'State ID',
        DescriptionLong => 'Enter the state here',
        Display          => 2,
        DefaultValue    => '2',
      },
      Queue => {
        DescriptionShort => 'Queue ID',
        DescriptionLong => 'Enter the queue here',
        Display          => 2,
        DefaultValue    => 'Raw',
      },
      Title => {
        DescriptionShort => 'Title',
        DescriptionLong => 'Enter the title here',
        Display          => 1,
        DefaultValue    => 'Default Title',
      },
      DynamicField_Anzahl => {
        DescriptionShort => 'Amount',
        DescriptionLong  => 'Enter the amount here',
        Display          => 2,
        DefaultValue    => '4',
      },
    },
    FieldOrder      => [ 'DynamicField_Anzahl', 'StateID', 'Queue', 'Title' ],
    SubmitAdviceText => 'Note: If you submit the form...',
    SubmitButtonText => 'Send request',
  },
};

```

2.4.3.2. Name

Name of the Activity Dialog.

2.4.3.3. CreateTime

Time when it was created.

2.4.3.4. CreateBy

UID of the user who created this Activity Dialog.

2.4.3.5. ChangeTime

Last time when it was changed.

2.4.3.6. ChangeBy

UID of the last user who changed this Activity Dialog.

2.4.3.7. Fields

Contains all fields which can be displayed in this Activity Dialog. The following fields can currently be used:

Title

```

State
StateID
Priority
PriorityID
Lock
LockID
Queue
QueueID
Customer
CustomerID
CustomerNo
CustomerUserID
Owner
OwnerID
Type
TypeID
SLA
SLAID
Service
ServiceID
Responsible
ResponsibleID
PendingTime
DynamicField_$FieldName # for all dynamic fields

```

Example of a single field configuration:

```

StateID => {
  DescriptionShort => 'State ID',
  DescriptionLong  => 'Enter the state here',
  Display          => 2,
  DefaultValue     => '2',
},

```

The field "Article" is a special case. If it is present in a "Fields" configuration, the Activity Dialog will contain a complete Richtext editor with subject field and attachment handling. The entered text will then be added to the ticket as an article and sent by email. Let's see an example Article field configuration:

```

Article => {
  DescriptionShort => 'Please insert your comment here.',
  DescriptionLong  => '',
  Display          => 1,
  Config           => {
    ArticleType => 'note-internal',
    LabelSubject => '',
    LabelBody   => '',
  },
},

```

Let's look at the field configuration options:

2.4.3.7.1. DescriptionShort

Optional short description that is shown with the field title.

2.4.3.7.2. DescriptionLong

Optional longer field description that is shown then the mouse is over the field, for example advice on how to fill out the field.

2.4.3.7.3. Display

Controls if the field is shown and/or mandatory. Possible values:

- '0': field is invisible. This can be helpful if field values should automatically be set. The configured DefaultValue will be stored in this case.
- '1': field is visible, but optional.
- '2': field is visible and mandatory. The following fields can only be invisible or mandatory:

```
QueueID
Queue
State
StateID
Lock
LockID
Priority
PriorityID
Type
TypeID
```

If fields are configured as optional, and no value is submitted by the user, the DefaultValue will be saved when the Activity Dialog is submitted by the user.

2.4.3.7.4. DefaultValue

For fields with 'ID' (like QueueID, OwnerID), this refers to the database ID of the value. For other fields without 'ID' (like Queue, Owner), the DefaultValue must contain the value itself. Example:

```
Queue => {
  DescriptionShort => 'Queue',
  DescriptionLong => 'Enter the queue here',
  Display         => 2,
  DefaultValue    => 'Raw',
},
```

2.4.3.8. FieldOrder

Here the display order of the fields is configured. IMPORTANT: Invisible fields also must be configured here, because only configured fields will be considered when saving. Fields which are not configured will not be saved.

2.4.3.9. SubmitAdviceText

Optional text to be shown right above the submit button for additional help or advice text.

2.4.3.10. SubmitButtonText

Optional custom text for the submit button.

2.4.4. Transition

A Transition decides - based on configurable conditions - which path in the Process is taken, i. e. to which Activity a Process ticket can be moved.

2.4.4.1. Transition configuration

Let's see an example:

```
$Self->{'Process::Transition'} = {
  'T1' => {
    Name => 'Transition 1',
```

```

CreateTime => '14-03-2012 13:37:00', # optional
CreateBy   => '1',                  # optional
ChangeTime => '15-03-2012 13:37:00', # optional
ChangeBy   => '15-03-2012 13:37:00', # optional
Condition  => {
  Cond1 => {
    Fields => {
      StateID => {
        Type => 'String',
        Match => '1',
      },
    },
  },
},
'T2' => {
  Name      => 'Transition 2 optional',
  CreateTime => 'DATE', # optional
  CreateBy  => 'USERID', # optional
  ChangeTime => 'DATE', # optional
  ChangeBy  => 'USERID', # optional
  Condition => {
    Cond1 => {
      Queue           => 'Raw',
      DynamicField_Farbe => '2',
      DynamicField_Anzahl => '1',
    },
  },
},
};

```

2.4.4.2. Name

Name of the transition.

2.4.4.3. CreateTime

Time when it was created.

2.4.4.4. CreateBy

UID of the user who created this Transition.

2.4.4.5. ChangeTime

Last time when it was changed.

2.4.4.6. ChangeBy

UID of the last user who changed this Transition.

2.4.4.7. Condition

Contains all conditions that are necessary for this Transition to take effect. Example:

```

Condition => {
  Type => 'and',
  Cond1 => {
    Type => 'and',
    Fields => {
      StateID => {
        Type => 'String',
        Match => '1',
      },
      DynamicField_Marke => {
        Type => 'String',

```

```

    Match => 'VW',
  },
},
Cond2 => {
  Type => 'and',
  Fields => {
    Queue => {
      Type => 'String',
      Match => 'Raw',
    },
  },
},
},
},

```

Let's look at the condition configuration in detail.

2.4.4.7.1. Type (Condition)

Specifies the way the different condition elements are connected to each other. Possible values:

- 'and': This is the default. All conditions must be met for the transition to take effect.
- 'or': At least one condition must match.
- 'xor': Exactly one condition must match, not more.

2.4.4.7.2. Cond1

This is the name of an example condition. It can be freely chosen. Conditions are evaluated in sorted order.

2.4.4.7.3. Type (Cond)

Specifies the way how the individual field tests of this condition are connected to each other. Possible values:

- 'and': This is the default. All field tests must match for this condition to match.
- 'or': At least one field test must match.
- 'xor': Exactly one field test must match, not more.

2.4.4.7.4. Fields

Specifies the particular fields whose values should be tested. From our example:

```

Fields => {
  StateID => {
    Type => 'String',
    Match => '1',
  },
},

```

2.4.4.7.5. StateID

Example of a field name. The following ticket fields can be used:

```

Title
State
StateID
Priority
PriorityID
Lock

```

```

LockID
Queue
QueueID
Customer
CustomerID
CustomerNo
CustomerUserID
Owner
OwnerID
Type
TypeID
SLA
SLAID
Service
ServiceID
Responsible
ResponsibleID
DynamicField_{$FieldName} # for all DynamicFields

```

When testing a field with 'ID' (like SLAID), the database ID of the field will be used for testing, for other fields (like SLA) the actual value is used for testing.

2.4.4.7.6. Type

Determines the kind of field testing. Possible values:

- 'String': Compares the field value with the string specified in 'Match'. Matches if they are exactly the same.
- 'Hash': Compares the field value (hash) with the hash specified in 'Match'. All hash values must be the same.
- 'Array': Compares the field value (array) with the array specified in 'Match'. Both lists must be the same.
- 'Regex': The field value can be tested with a regular expression. It is important that 'Match' contains *qr{}* as a base condition. Between the braces the actual regular expression can be noted.
- 'Module': Allows you to use a perl module for condition checking. If it returns 1, the check was positive. You can find an example module in Kernel/System/ProcessManagement/TransitionValidation/ValidateDemo.pm.

2.4.5. Transition Actions

Transition Actions are actions which can be triggered after successfully applied transitions (when a process ticket moves from one activity to another). These Transition Actions can be used to perform different changes on the ticket, e. g. change the Queue or the Owner of the ticket, and you can also create your own Transition Actions to perform other complex changes.

2.4.5.1. Transition Action configuration

Let's see an example:

```

$self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Queue Move',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketQueueSet',
    Config => {
      Queue => 'Junk',
      UserID => 123,
    },
  },
},

```

```
};
```

2.4.5.2. Name

The name of the Transition Action.

2.4.5.3. Module

Specifies the Perl module to be used.

2.4.5.4. Config

This parameter contains all settings which are required for the module. Its content depends on the particular Transition Action module which is used. Please see the documentation of the individual modules for details. In our example, only the Queue must be specified, Nevertheless we are also sending UserID parameter, by using the UserID parameter, the transition action will be executed impersonating the user with the given UserID.

The use of UserID inside the "Config" parameter of a Transition Action is accepted by all Transition Actions (since OTRS 3.2.4), in this example it could be particularly important if the user that triggers the Transition does not have permissions to move the ticket to the queue 'Junk', while the user with the UserID 123 might have.

2.4.5.5. Reusing Transition Action modules

To use Transition Action modules multiple times, just specify several TransitionActions in your configuration. Example:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Queue Move Junk',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketQueueSet',
    Config => {
      Queue => 'Junk',
    },
  },
  'TA2' => {
    Name => 'Queue Move Raw',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketQueueSet',
    Config => {
      Queue => 'Raw',
    },
  },
};
```

Here the same module is used to move a process ticket into the 'Raw' queue, and another time to move it into the junk queue. The Transition Action which must be used for a particular Transition is determined from the 'Path' setting of the Process configuration.

2.4.5.6. Available Transition Actions

OTRS comes with several Transition Actions that can be used in your processes. Here you can find their documentation and how they need to be configured.

2.4.5.6.1. DynamicFieldSet

Sets one or more dynamic fields at a process ticket. Example:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Set DynamicField Master to Master and Approved to 1',
```

```

Module => 'Kernel::System::ProcessManagement::TransitionAction::DynamicFieldSet',
Config => {
    MasterSlave => 'Master',
    Approved    => '1',
},
};

```

'Name' specifies the name of the configured TransitionAction.

'MasterSlave' and 'Approved' are given as examples of DynamicField names. The values of the fields ('Master' and '1') will be set by this TransitionAction.

2.4.5.6.2. TicketArticleCreate

Creates an article and can be used to create notes or email replies. Example:

```

$self->{'Process::TransitionAction'} = {
    'TA1' => {
        Name    => 'Article Create Note Internal',
        Module =>
        'Kernel::System::ProcessManagement::TransitionAction::TicketArticleCreate',
        Config => {
            ArticleType    => 'note-internal', #
            note-external|phone|fax|sms|... #
            excluding any email type #
            SenderType     => 'agent', #
            agent|system|customer #
            ContentType    => 'text/plain; charset=ISO-8859-15', # or
            optional Charset & MimeType #
            Subject        => 'some short description', #
            required      #
            Body           => 'the message text', #
            required      #
            HistoryType    => 'OwnerUpdate', #
            EmailCustomer|Move|AddNote|PriorityUpdate|WebRequestCustomer|... #
            HistoryComment => 'Some free text!', #
            From           => 'Some Agent <email@example.com>', #
            not required but useful #
            To             => 'Some Customer A <customer-a@example.com>', #
            not required but useful #
            Cc             => 'Some Customer B <customer-b@example.com>', #
            not required but useful #
            ReplyTo        => 'Some Customer B <customer-b@example.com>', #
            not required #
            InReplyTo      => '<asdasdasd.12@example.com>', #
            not required but useful #
            References     => '<asdasdasd.1@example.com> <asdasdasd.12@example.com>', #
            not required but useful #
            NoAgentNotify  => 0, # if
            you don't want to send agent notifications #
            AutoResponseType => 'auto reply', #
            auto reject|auto follow up|auto reply/new ticket|auto remove #
            ForceNotificationToUserID => [ 1, 43, 56 ], # if
            you want to force somebody #
            ExcludeNotificationToUserID => [ 43, 56 ], #
            # if you want full exclude somebody from notifications, #
            # will also be removed in To: line of article, #
            # higher prio as ForceNotificationToUserID #
            ExcludeMuteNotificationToUserID => [ 43, 56 ], #
            # the same as ExcludeNotificationToUserID but only the #
            # sending gets muted, agent will still shown in To: #
            # line of article #
        },
    },
};

```

'Name' specifies the name of the configured TransitionAction. It can be freely chosen, but should reflect the purpose of the configured action.

'ArticleType' defines the type of the article to be created. Possible values: phone, fax, sms, webrequest, note-internal, note-external and note-report.

SenderType defines the sender type of the article. Possible values: agent, system, customer.

'ContentType' defines the content type of the article. Possible values: 'text/plain; charset=ISO-8859-15' or any other valid charset and mime type.

'Subject' defines the article title. Mandatory.

'Body' defines the article content. Mandatory.

HistoryType defines the type of the history entry. Possible values: AddNote, ArchiveFlagUpdate, Bounce, CustomerUpdate, EmailAgent, EmailCustomer, EscalationResponseTimeNotifyBefore, EscalationResponseTimeStart, EscalationResponseTimeStop, EscalationSolutionTimeNotifyBefore, EscalationSolutionTimeStart, EscalationSolutionTimeStop, EscalationUpdateTimeNotifyBefore, EscalationUpdateTimeStart, EscalationUpdateTimeStop, FollowUp, Forward, Lock, LoopProtection, Merged, Misc, Move, NewTicket, OwnerUpdate, PhoneCallAgent, PhoneCallCustomer, PriorityUpdate, Remove, ResponsibleUpdate, SendAgentNotification, SendAnswer, SendAutoFollowUp, SendAutoReject, SendAutoReply, SendCustomerNotification, ServiceUpdate, SetPendingTime, SLAUpdate, StateUpdate, Subscribe, SystemRequest, TicketDynamicFieldUpdate, TicketLinkAdd, TicketLinkDelete, TimeAccounting, TypeUpdate, Unlock, Unsubscribe, WebRequestCustomer.

'HistoryComment' defines the content of the history entry.

'From', 'To', 'Cc' and 'ReplyTo' take email addresses in the notation specified above.

'InReplyTo' and 'References' take email message IDs.

'NoAgentNotify' - if set to 1, the email notification of the Agent will not be sent.

'AutoResponseType' can take the following values: auto follow up, auto reject, auto remove, auto reply, auto reply/new ticket.

'ForceNotificationToUserID', 'ExcludeNotificationToUserID', 'ExcludeMuteNotificationToUserID' can take a list of UserIDs that are either always notified, not notified or listed as notified but not actually sent a notification email.

2.4.5.6.3. TicketCustomerSet

Sets the customer of a process ticket. Example:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name    => 'Customer Set Customer to test',
    Module  => 'Kernel::System::Process::TransitionAction::TicketCustomerSet',
    Config  => {
      No     => 'test',
      User   => 'client-user-123',
      # or in other words
      # CustomerID    => 'client123',
      # CustomerUserID => 'client-user-123',
    },
  },
};
```

'Name' specifies the name of the configured TransitionAction.

No or CustomerID set the Customer ID of the customer.

User or CustomerUserID set the Username of the customer.

2.4.5.6.4. TicketLockSet

Changes the lock of a process ticket. Example:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Set Lock to lock',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketLockSet',
    Config => {
      Lock => 'lock',
      # or
      LockID => 2,
    },
  },
};
```

'Name' specifies the name of the configured TransitionAction.

'Lock' defines the new lock of the process ticket.

'LockID' defines the internal ID of the new lock.

2.4.5.6.5. TicketOwnerSet

Changes the owner of a process ticket. Example:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Owner Set root@localhost',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketOwnerSet',
    Config => {
      Owner => 'root@localhost',
      # or
      OwnerID => 1,
    },
  },
};
```

'Name' specifies the name of the configured TransitionAction.

'Owner' specifies the login name of the new owner.

'OwnerID' specifies the internal ID of the new owner.

2.4.5.6.6. TicketQueueSet

Moves the ticket into a target queue. Example:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Queue Move Raw',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketQueueSet',
    Config => {
      Queue => 'Raw',
      # or
    },
  },
};
```

```

    # QueueID => '2',
  },
};

```

'Name' specifies the name of the configured TransitionAction.

'Queue' specifies the name of the target queue.

'QueueID' specifies the internal ID of the target queue.

2.4.5.6.7. TicketResponsibleSet

Changes the responsible of a process ticket. Example:

```

$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name    => 'Responsible Set root@localhost',
    Module =>
  'Kernel::System::ProcessManagement::TransitionAction::TicketResponsibleSet',
    Config => {
      Responsible => 'root@localhost',
      # or
      ResponsibleID => 1,
    },
  },
};

```

'Name' specifies the name of the configured TransitionAction.

'Responsible' specifies the login name of the new responsible.

'ResponsibleID' specifies the internal ID of the new responsible.

2.4.5.6.8. TicketServiceSet

Assigns a service to a process ticket. The ticket requires to have a customer and the service must be assigned to that customer. Example:

```

$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name    => 'Set MyService service',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketServiceSet',
    Config => {
      Service    => 'MyService',
      # or
      ServiceID => 123,
    },
  },
};

```

'Name' specifies the name of the configured TransitionAction.

'Service' defines the new service of the process ticket. The full name is required (e.g. GrandFatherService::FatherService::SonService).

'ServiceID' defines the internal ID of the new service.

2.4.5.6.9. TicketSLASet

Assigns a service level agreement to a process ticket. The ticket requires to have a service and the SLA must be assigned to that service. Example:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Set MySLA SLA',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketSLASet',
    Config => {
      SLA => 'MyService',
      # or
      SLAID => 123,
    },
  },
};
```

'Name' specifies the name of the configured TransitionAction.

'SLA' defines the new service level agreement of the process ticket.

'SLAID' defines the internal ID of the new SLA.

2.4.5.6.10. TicketStateSet

Changes the state of a process ticket. Example:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Set State to open',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketStateSet',
    Config => {
      State => 'open',
      # or
      StateID => 4,

      PendingTimeDiff => 123,
    },
  },
};
```

'Name' specifies the name of the configured TransitionAction.

'State' defines the new state of the process ticket.

'StateID' defines the internal ID of the new state.

'PendingTimeDiff' used only for pending type states, defines the time difference in seconds relative (relative to the Transition Action execution time) to set ticket pending time (e.g. 3600 means that the pending time is 1hr after the Transition Action is executed).

2.4.5.6.11. TicketTitleSet

Sets the ticket title of a process ticket. Example:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Set Ticket Title to Ticket-title',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketTitleSet',
    Config => {
      Title => 'Ticket-title',
    },
  },
};
```

'Name' specifies the name of the configured TransitionAction.

'Title' specifies the new title of the ticket.

2.4.5.6.12. TicketTypeSet

Sets the ticket type of a process ticket. Example:

```
$Self->{'Process::TransitionAction'} = {
  'TA1' => {
    Name => 'Set Ticket Type to default',
    Module => 'Kernel::System::ProcessManagement::TransitionAction::TicketTypeSet',
    Config => {
      Type => 'default',
      # or
      # TypeID => '1',
    },
  },
};
```

'Name' specifies the name of the configured TransitionAction.

'Type' specifies the name of the ticket type.

'TypeID' specifies the internal ID of the ticket type.

2.4.6. Access Control Lists (ACLs)

With the help of ACLs, you can limit selectable values in process tickets. Please also see the ACL reference for a description of the full ticket ACL syntax.

2.4.6.1. ACL configuration

ACLs can only be defined in Kernel/Config.pm. Example:

```
$Self->{TicketAcl}->{'001-ACL-ProcessProperties'} = {
  Properties => {
    Process => {
      ProcessEntityID => ['P1'],
      ActivityEntityID => ['A1'],
      ActivityDialogEntityID => ['AD1'],
    }
  },
  Possible => {
    ActivityDialog => ['AD1', 'AD3'],
  },
  PossibleNot => {
    ActivityDialog => ['AD3'],
  },
};
```

2.4.6.2. 001-ACL-ProcessProperties

Name of the ACL rule. For further information on ACL rules in general, please consult the ACL manual.

2.4.6.3. Process

This is the section that is used to check if an ACL must be applied. If it has the specified values, the rule is applied. The following values can be used:

2.4.6.3.1. ProcessEntityID

The ID of a process that the process. Matches if the ticket is assigned to this process.

2.4.6.3.2. ActivityEntityID

The ID of the Activity that the process ticket currently is assigned to.

2.4.6.3.3. ActivityDialogEntityID

The ID of the Activity Dialog that is currently open for a process ticket.

2.4.6.4. Possible/PossibleNot Activity Dialog

Here you can specify a list of Activity Dialog IDs. This list will limit the possible Activity Dialogs that are offered to the user in the ticket zoom mask.

'Possible' lists the Activity Dialogs that are allowed. The setting above will only allow 'AD1' and 'AD3' of the list of configured Activity Dialogs.

'PossibleNot' lists the Activity Dialogs that are not allowed. In the example above, the setting will remove 'AD3' from the list of configured Activity Dialogs.

If both 'Possible' and 'PossibleNot' are specified, the list of configured Activity Dialogs will first be filtered by 'Possible', leaving only 'AD1' and 'AD3' in our example. Then 'PossibleNot' will be applied and filter out 'AD3', so that only 'AD1' remains and is shown as a possible Activity Dialog that the user can use.

If multiple ACL rules match, the intersection of all matching rules will be calculated to determine the possible Activity Dialogs. Example:

Configured Activity Dialogs: 'AD1', 'AD2', 'AD3', 'AD4', 'AD5', 'AD6', 'AD7'.

```

$self->{TicketAcl}->{'001-ACL-Status'} = {
  Properties => {
    Ticket => {
      Status => 'new',
    }
  },
  Possible => {
    ActivityDialog => ['AD1', 'AD2', 'AD3', 'AD6', 'AD7'],
  },
};
$self->{TicketAcl}->{'002-ACL-Queue'} = {
  Properties => {
    Ticket => {
      Queue => ['Raw']
    }
  },
  Possible => {
    ActivityDialog => ['AD2', 'AD3', 'AD4', 'AD7'],
  },
};
$self->{TicketAcl}->{'003-ACL-Priority'} = {
  Properties => {
    Ticket => {
      Priority => ['3 normal']
    }
  },
  PossibleNot => {
    ActivityDialog => ['AD3', 'AD4'],
  },
};

```

If a process ticket has the state 'new', is in the 'Raw' queue and has a priority '3 normal', then all three ACL rules will match.

The first rule reduces the Activity Dialogs from 'AD1', 'AD2', 'AD3', 'AD4', 'AD5', 'AD6', 'AD7' to 'AD1', 'AD2', 'AD3', 'AD6', 'AD7' and forbids 'AD4' and 'AD5'.

The second rule will now further reduce the remaining Activity Dialogs. In our example, 'AD2', 'AD3', 'AD7' will remain.

Now the third rule will further reduce the list by 'PossibleNot'. 'AD3' is removed from the list. 'AD4' is not removed, since it was not on the list in the first place. At the end, 'AD2' and 'AD7' remain as possible Activity Dialogs that the user can utilize.

It is also possible to limit the processes that can be displayed in the "New process ticket" screen, the functionality is similar to limiting the ActivityDialogs with one exception: The ACLs could only be based on Users.

See examples below:

```
$Self->{TicketAcl}->{'200-ACL-Process'} = {  
  # match properties  
  Properties => {  
    User => {  
      UserID => [2, 3],  
    },  
  },  
  Possible => {  
    Process => ['P1', 'P2', 'P3'],  
  },  
  PossibleNot => {  
    Process => ['P4'],  
  },  
};
```

```
$Self->{TicketAcl}->{'201-ACL-Process'} = {  
  # match properties  
  Properties => {  
    User => {  
      Group_rw => [ 'MyGroup' ],  
    },  
  },  
  Possible => {  
    Process => ['P1', 'P2', 'P3'],  
  },  
  PossibleNot => {  
    Process => ['P4'],  
  },  
};
```

```
$Self->{TicketAcl}->{'202-ACL-Process'} = {  
  # match properties  
  Properties => {  
    User => {  
      Role => [ 'MyRole' ],  
    },  
  },  
  Possible => {  
    Process => ['P1', 'P2', 'P3'],  
  },  
  PossibleNot => {  
    Process => ['P4'],  
  },  
};
```

3. Creating your own themes

You can create your own themes so as to use the layout you like in the OTRS web frontend. To create own themes, you should customize the output templates to your needs.

More information on the syntax and structure of output templates can be found in the Developer Manual at <http://otrs.github.io/doc>, especially in the chapter on [templates](#).

As an example, perform the following steps to create a new theme called "Company":

1. Create a directory called `Kernel/Output/HTML/Company` and copy all files that you like to change, from `Kernel/Output/HTML/Standard` into the new folder.

Important

Only copy over the files you actually change. OTRS will automatically get the missing files from the Standard theme. This will make upgrading at a later stage much easier.

2. Customize the files in the directory `Kernel/Output/HTML/Company`, and change the layout to your needs.
3. To activate the new theme, add them in SysConfig under `Frontend::Themes`.

Now the new theme should be useable. You can select it via your personal preferences page.

Warning

Do not change the theme files shipped with OTRS, since these changes will be lost after an update. Create your own themes only by performing the steps described above.

4. Localization of the OTRS frontend

OTRS offers multi-language support for its web interface.

Procedures for localization for the OTRS framework, steps to be followed to create a new language translation, as well as procedures for translation customizations, can be found in the "[Language Translations](#)" chapter from the developer manual on <http://otrs.github.io/doc>.

Chapter 6. Performance Tuning

Presented below is a list of performance enhancing techniques for your OTRS installation, including configuration, coding, memory use, and more.

1. OTRS

There are several options for improving OTRS performance.

1.1. TicketIndexModule

There are two backend modules for the ticket index:

- Using `Kernel::System::Ticket::IndexAccelerator::RuntimeDB` (default), generate each queue view on the fly from the ticket table. You will not have performance trouble until you have about 60,000 open tickets in your system.
- `Kernel::System::Ticket::IndexAccelerator::StaticDB`, the most powerful module, should be used when you have above 80,000 open tickets. It uses an extra `ticket_index` table, which works like a view. Use `bin/otrs.RebuildTicketIndex.pl` for generating an initial index build after switching backends.

You can change the `IndexAccelerator` via `SysConfig`.

1.2. TicketStorageModule

There are two different backend modules for the ticket/article storage:

- Configure `Kernel::System::Ticket::ArticleStorageDB` (default) to store attachments, etc., in the database. Note: Don't use it with large set ups.

Pro: If your webserver user isn't the 'otrs' user, use this module to avoid file permission problems.

Con: It is not advisable to store attachments in your database. Take care that your database is able to store large objects. E.g. Configure MySQL with "`set-variable = max_allowed_packet=8M`" to store 8 MB objects (the default is 2M).

- Configure `Kernel::System::Ticket::ArticleStorageFS` to store attachments etc. on the local file system. Note: Recommended for large setups.

Pro: It is fast!

Con: Your web server user should be the 'otrs' user. Also, if you have multiple front-end servers, you should make sure the filesystem is shared between the servers. Place it on an NFS share or preferably a SAN or similar solution.

Note: you can switch from one back-end to the other on the fly. You can switch the backend in the `SysConfig`, and then run the command line utility `otrs.ArticleStorageSwitch.pl` to put the articles from the database onto the filesystem or the other way around. You can use the `-s` and `-d` options to specify the source and destination back-ends. Please note that the entire process can take considerable time to run, depending on the number of articles you have and the available CPU power and/or network capacity.

```
shell> bin/otrs.ArticleStorageSwitch.pl -s ArticleStorageDB -d ArticleStorageFS
```

Script: Switching storage back-ends from database to filesystem.

1.3. Archiving Tickets

As OTRS can be used as an audit-proof system, deleting closed tickets may not be a good idea. Therefore we implemented a feature that allows you to archive tickets.

Tickets that match certain criteria can be marked as "archived". These tickets are not accessed if you do a regular ticket search or run a Generic Agent job. The system itself does not have to deal with a huge amount of tickets any longer as only the "latest" tickets are taken into consideration when using OTRS. This can result in a huge performance gain on large systems.

To use the archive feature simply follow these steps:

1. Activate the archive system in SysConfig

In the Admin page, go to SysConfig and select the group Ticket. In Core::Ticket you find the option Ticket::ArchiveSystem which is set to "no" by default. Change this setting to "yes" and save this change.

2. Define a GenericAgent job

On the Admin page, select GenericAgent and add a new job there.

a. Job Settings

Provide a name for the archiving job, and select proper options to schedule this job.

b. Ticket Filter

The ticket filter searches for tickets that match the selected criteria. It might be a good idea to only archive those tickets in a closed state that have been closed a few months before.

c. Ticket Action

In this section, set the field labeled "Archive selected tickets" to "archive tickets".

d. Save the job

At the end of the page you will find an option to save the job.

e. Affected tickets

The system will display all tickets which will be archived when executing the Generic Agent job.

3. Ticket Search

When you search for tickets, the system default is to search tickets which are not archived. If you want to search through archived tickets also, simply add "archive search" while defining search criteria.

2. Database

DB issues vary by the database being used. Study the documentation for your database or check with your database administrator.

2.1. MySQL

If you use the MySQL table type MyISAM (which is the default), and have deleted a large part of a table or if you have made many changes to a table with variable-length rows (tables that have VARCHAR, BLOB or TEXT columns), you must defragment the datafile (tables) with the "optimize" command.

You should try this if the mysqld daemon needs a lot of your CPU time. Optimize the tables - ticket, ticket_history and article (see Script below).

```
shell$ mysql -u user -p database
mysql$ optimize table ticket;
mysql$ optimize table ticket_history;
mysql$ optimize table article;
```

Script: Optimizing data base tables.

2.2. PostgreSQL

PostgreSQL is best tuned by modifying the postgresql.conf file in your PostgreSQL data directory. For advice on how to do this, reference the following articles:

- <http://www.revsys.com/writings/postgresql-performance.html>
- <http://varlena.com/GeneralBits/Tidbits/perf.html>
- http://varlena.com/GeneralBits/Tidbits/annotated_conf_e.html

If performance is still not satisfactory, we suggest that you join the PostgreSQL Performance mailing list (<http://www.postgresql.org/community/lists/>), and ask questions there. The folks on the PostgreSQL list are very friendly and can probably help.

3. Webserver

Of course you should use mod_perl 2.0 (<http://perl.apache.org/>). It's much faster (~ * 100) than pure cgi. But it needs more RAM.

3.1. Pre-established database connections

You can have the database connections pre-established on startup of the web server. This saves time (see README.webserver).

3.2. Preloaded modules - startup.pl

Use the startup script scripts/apache2-perl-startup.pl for preloaded/precompiled Perl modules on your mod_perl webserver to be faster, with a smaller memory footprint (see README.webserver).

3.3. Reload Perl modules when updated on disk

By default Apache::Reload is used in scripts/apache2-httpd.include.conf. Disable it and you will get 8% more speed. But remember to restart the web server if you install any modules via the OTRS Package Manager, or any values in your SysConfig or in Kernel/Config.pm. Important: this would also mean you can't use the OTRS Package Manager via

the web interface, you need to use the command line variant - `bin/otrs.PackageManager.pl`.

3.4. Choosing the Right Strategy

If you have a larger installation, e.g. over 1,000 new tickets per day and over 40 agents, it is a good idea to read the chapters on Performance of the `mod_perl` User's Guide (<http://perl.apache.org/docs/2.0/user/index.html>).

3.5. `mod_gzip/mod_deflate`

If your bandwidth is small, use `mod_deflate` for Apache2. If you have an html page with 45k, `mod_gzip/mod_deflate` compresses it to about 7k. The drawback is that this increases the load on the server side.



Appendix A. Additional Resources

We try to support you with the very latest information about OTRS. We also give you an opportunity to provide us with your feedback.

1. Website OTRS Group

You can find the website of the OTRS Group, the company behind OTRS, at <http://www.otrs.com>. It contains a lot of product-related information, such as white papers, release notes, case studies and so on.

2. Mailing lists

The Table A-1 displays our various community mailing lists.

Table A.1. Mailinglists

Name	Description	Homepage
announce@otrs.org	Low traffic list, in English, for announcements of new OTRS releases and security issues.	http://lists.otrs.org/cgi-bin/listinfo/announce
otrs@otrs.org	Medium to high traffic list, in English, where you can find all sorts of relevant questions and support for the product.	http://lists.otrs.org/cgi-bin/listinfo/otrs
otrs-de@otrs.org	Medium to high traffic list, in German, where you can find all sorts of relevant questions and support for the product.	http://lists.otrs.org/cgi-bin/listinfo/otrs-de
dev@otrs.org	Medium traffic list, in English, where the OTRS developers discuss various design and implementation issues.	http://lists.otrs.org/cgi-bin/listinfo/dev
i18n@otrs.org	Low traffic list, in English, for internationalization and localization questions. If you are or want to become a translator of the OTRS project or have any problems with one of our applications in an international environment, this is where you should connect.	http://lists.otrs.org/cgi-bin/listinfo/i18n

To subscribe to any of these lists, visit the following link: <http://lists.otrs.org/>.

3. Bug tracking

To submit bugs visit <http://bugs.otrs.org/> (see Figure below). Please take note of the difference between a bug and a configuration issue. Configuration issues are problems that you encounter when setting a system, or general questions regarding the use of OTRS. Bug reports should only be used for issues with the source code of OTRS itself, or to file enhancements for OTRS. All your bug reports and enhancement requests are very welcome in the bug tracker.

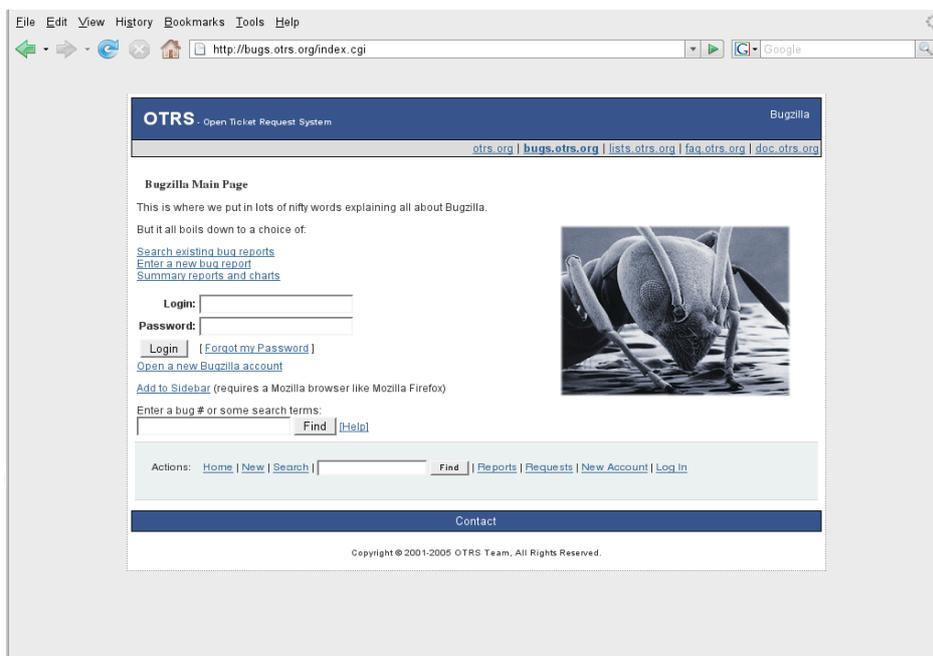


Figure: Bug tracker.

For configuration issues, you should either use the *commercial support, available from OTRS.com*, or the public mailing lists.

You help us improve the product by reporting bugs. We appreciate your input!

4. Commercial Support

For services (support, consulting, development, and training) you can contact the company behind OTRS, OTRS AG. Our offices are located in Germany, USA, Mexico, the Netherlands, and in other countries. Visit our website for contact information: <http://www.otrs.com/en/corporate-navigation/contact/>

Appendix B. Configuration Options Reference

1. DynamicFields

1.1. DynamicFields::Driver::Registration

1.1.1. DynamicFields::Driver###Text

Description:	DynamicField backend registration.
Group:	DynamicFields
SubGroup:	DynamicFields::Driver::Registration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'DynamicFields::Driver'}->{'Text'} = { 'ConfigDialog' => 'AdminDynamicFieldText', 'DisplayName' => 'Text', 'Module' => 'Kernel::System::DynamicField::Driver::Text' };</pre>

1.1.2. DynamicFields::Driver###TextArea

Description:	DynamicField backend registration.
Group:	DynamicFields
SubGroup:	DynamicFields::Driver::Registration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'DynamicFields::Driver'}->{'TextArea'} = { 'ConfigDialog' => 'AdminDynamicFieldText', 'DisplayName' => 'Textarea', 'Module' => 'Kernel::System::DynamicField::Driver::TextArea' };</pre>

1.1.3. DynamicFields::Driver###Checkbox

Description:	DynamicField backend registration.
Group:	DynamicFields
SubGroup:	DynamicFields::Driver::Registration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'DynamicFields::Driver'}->{'Checkbox'} = { 'ConfigDialog' => 'AdminDynamicFieldCheckbox', 'DisplayName' => 'Checkbox', 'Module' => 'Kernel::System::DynamicField::Driver::Checkbox' };</pre>

1.1.4. DynamicFields::Driver###Dropdown

Description:	DynamicField backend registration.
Group:	DynamicFields

SubGroup:	DynamicFields::Driver::Registration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'DynamicFields::Driver'}->{'Dropdown'} = { 'ConfigDialog' => 'AdminDynamicFieldDropdown', 'DisplayName' => 'Dropdown', 'Module' => 'Kernel::System::DynamicField::Driver::Dropdown' };</pre>

1.1.5. DynamicFields::Driver###DateTime

Description:	DynamicField backend registration.
Group:	DynamicFields
SubGroup:	DynamicFields::Driver::Registration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'DynamicFields::Driver'}->{'DateTime'} = { 'ConfigDialog' => 'AdminDynamicFieldDateTime', 'DisplayName' => 'Date / Time', 'Module' => 'Kernel::System::DynamicField::Driver::DateTime' };</pre>

1.1.6. DynamicFields::Driver###Date

Description:	DynamicField backend registration.
Group:	DynamicFields
SubGroup:	DynamicFields::Driver::Registration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'DynamicFields::Driver'}->{'Date'} = { 'ConfigDialog' => 'AdminDynamicFieldDateTime', 'DisplayName' => 'Date', 'Module' => 'Kernel::System::DynamicField::Driver::Date' };</pre>

1.1.7. DynamicFields::Driver###Multiselect

Description:	DynamicField backend registration.
Group:	DynamicFields
SubGroup:	DynamicFields::Driver::Registration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'DynamicFields::Driver'}->{'Multiselect'} = { 'ConfigDialog' => 'AdminDynamicFieldMultiselect', 'DisplayName' => 'Multiselect', 'ItemSeparator' => ', ', 'Module' => 'Kernel::System::DynamicField::Driver::Multiselect' };</pre>

1.2. DynamicFields::ObjectType::Registration

1.2.1. DynamicFields::ObjectType###Ticket

Description:	DynamicField object registration.
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Group:	DynamicFields
SubGroup:	DynamicFields::ObjectType::Registration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'DynamicFields::ObjectType'}->{'Ticket'} = { 'DisplayName' => 'Ticket', 'Module' => 'Kernel::System::DynamicField::ObjectType::Ticket' };</pre>

1.2.2. DynamicFields::ObjectType###Article

Description:	DynamicField object registration.
Group:	DynamicFields
SubGroup:	DynamicFields::ObjectType::Registration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'DynamicFields::ObjectType'}->{'Article'} = { 'DisplayName' => 'Article', 'Module' => 'Kernel::System::DynamicField::ObjectType::Article' };</pre>

1.3. Frontend::Admin::ModuleRegistration

1.3.1. Frontend::Module###AdminDynamicField

Description:	Frontend module registration for the agent interface.
Group:	DynamicFields
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminDynamicField'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.DynamicField.css'], 'JavaScript' => ['Core.Agent.Admin.DynamicField.js'] }, 'NavBarModule' => { 'Block' => 'Ticket', 'Description' => 'Create and manage dynamic fields.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Dynamic Fields', 'Prio' => '1000' }, 'NavBarName' => 'Admin', 'Title' => 'Dynamic Fields GUI' };</pre>

1.3.2. Frontend::Module###AdminDynamicFieldText

Description:	Frontend module registration for the agent interface.
Group:	DynamicFields

SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminDynamicFieldText'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'JavaScript' => ['Core.Agent.Admin.DynamicField.js'] }, 'Title' => 'Dynamic Fields Text Backend GUI' }; </pre>

1.3.3. Frontend::Module###AdminDynamicFieldCheckbox

Description:	Frontend module registration for the agent interface.
Group:	DynamicFields
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminDynamicFieldCheckbox'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'JavaScript' => ['Core.Agent.Admin.DynamicField.js'] }, 'Title' => 'Dynamic Fields Checkbox Backend GUI' }; </pre>

1.3.4. Frontend::Module###AdminDynamicFieldDropdown

Description:	Frontend module registration for the agent interface.
Group:	DynamicFields
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminDynamicFieldDropdown'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.DynamicField.css'], 'JavaScript' => ['Core.Agent.Admin.DynamicField.js', 'Core.Agent.Admin.DynamicFieldDropdown.js'] }, }; </pre>

```
'Title' => 'Dynamic Fields Drop-down Backend GUI'
};
```

1.3.5. Frontend::Module###AdminDynamicFieldDateTime

Description:	Frontend module registration for the agent interface.
Group:	DynamicFields
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminDynamicFieldDateTime'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.DynamicField.css'], 'JavaScript' => ['Core.Agent.Admin.DynamicField.js', 'Core.Agent.Admin.DynamicFieldDateTime.js'] }, 'Title' => 'Dynamic Fields Date Time Backend GUI' };</pre>

1.3.6. Frontend::Module###AdminDynamicFieldMultiselect

Description:	Frontend module registration for the agent interface.
Group:	DynamicFields
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminDynamicFieldMultiselect'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.DynamicField.css'], 'JavaScript' => ['Core.Agent.Admin.DynamicField.js', 'Core.Agent.Admin.DynamicFieldMultiselect.js'] }, 'Title' => 'Dynamic Fields Multiselect Backend GUI' };</pre>

1.4. Frontend::Agent::Preferences

1.4.1. PreferencesGroups###DynamicField

Description:	Defines the config parameters of this item, to be shown in the preferences view.
--------------	--

Group:	DynamicFields
SubGroup:	Frontend::Agent::Preferences
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'PreferencesGroups'}->{'DynamicField'} = { 'Active' => '1', 'Block' => 'Input', 'Column' => 'Other Settings', 'Data' => '\$Env{"UserDynamicField_NameX"}', 'Key' => 'Default value for NameX', 'Label' => 'NameX', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserDynamicField_NameX', 'Prio' => '7000' };</pre>

1.4.2. PreferencesGroups###DynamicFieldsOverview-PageShown

Description:	Parameters for the pages (in which the dynamic fields are shown) of the dynamic fields overview.
Group:	DynamicFields
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'PreferencesGroups'}->{'DynamicFieldsOverviewPageShown'} = { 'Active' => '0', 'Column' => 'Other Settings', 'Data' => { '10' => '10', '15' => '15', '20' => '20', '25' => '25', '30' => '30', '35' => '35' }, 'DataSelected' => '25', 'Key' => 'Dynamic fields limit per page for Dynamic Fields Overview', 'Label' => 'Dynamic Fields Overview Limit', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'AdminDynamicFieldsOverviewPageShown', 'Prio' => '8000' };</pre>

2. Framework

2.1. Core

2.1.1. SecureMode

Description:	Disables the web installer (http://yourhost.example.com/otrs/installer.pl), to prevent the system from being hijacked. If set to "No", the system can be reinstalled and the current basic configuration will be used to pre-populate the questions within the installer script. If not active, it also disables the GenericAgent, PackageManager and SQL Box.
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Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SecureMode'} = '0';</code>

2.1.2. Frontend::DebugMode

Description:	Enables or disable the debug mode over frontend interface.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Frontend::DebugMode'} = '0';</code>

2.1.3. ConfigLevel

Description:	Sets the configuration level of the administrator. Depending on the config level, some sysconfig options will be not shown. The config levels are in in ascending order: Expert, Advanced, Beginner. The higher the config level is (e.g. Beginner is the highest), the less likely is it that the user can accidentally configure the system in a way that it is not usable any more.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'ConfigLevel'} = '100';</code>

2.1.4. ProductName

Description:	Defines the name of the application, shown in the web interface, tabs and title bar of the web browser.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'ProductName'} = 'OTRS';</code>

2.1.5. SystemID

Description:	Defines the system identifier. Every ticket number and http session string contains this ID. This ensures that only tickets which belong to your system will be processed as follow-ups (useful when communicating between two instances of OTRS).
Group:	Framework
SubGroup:	Core

Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SystemID'} = '10';</code>

2.1.6. FQDN

Description:	Defines the fully qualified domain name of the system. This setting is used as a variable, OTRS_CONFIG_FQDN which is found in all forms of messaging used by the application, to build links to the tickets within your system.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'FQDN'} = 'yourhost.example.com';</code>

2.1.7. SupportDataCollector::HTTPHostname

Description:	Defines the HTTP hostname for the support data collection with the public module 'PublicSupportDataCollector' (e.g. used from the OTRS Daemon).
Group:	Framework
SubGroup:	Core
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'SupportDataCollector::HTTPHostname'} = '';</code>

2.1.8. HttpType

Description:	Defines the type of protocol, used by the web server, to serve the application. If https protocol will be used instead of plain http, it must be specified here. Since this has no affect on the web server's settings or behavior, it will not change the method of access to the application and, if it is wrong, it will not prevent you from logging into the application. This setting is only used as a variable, OTRS_CONFIG_HttpType which is found in all forms of messaging used by the application, to build links to the tickets within your system.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'HttpType'} = 'http';</code>

2.1.9. ScriptAlias

Description:	Sets the prefix to the scripts folder on the server, as configured on the web server. This setting is used as a variable, OTRS_CON-
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	FIG_ScriptAlias which is found in all forms of messaging used by the application, to build links to the tickets within the system.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'ScriptAlias'} = 'otrs/';</code>

2.1.10. AdminEmail

Description:	Defines the system administrator's email address. It will be displayed in the error screens of the application.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'AdminEmail'} = 'admin@example.com';</code>

2.1.11. Organization

Description:	Company name which will be included in outgoing emails as an X-Header.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Organization'} = 'Example Company';</code>

2.1.12. DefaultLanguage

Description:	Defines the default front-end language. All the possible values are determined by the available language files on the system (see the next setting).
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'DefaultLanguage'} = 'en';</code>

2.1.13. DefaultUsedLanguages

Description:	Defines all the languages that are available to the application. The Key/Content pair links the front-end display name to the appropriate language PM file. The "Key" value should be the base-name of the PM file (i.e. de.pm is the file, then de is the "Key" value). The "Content" value should be the display name for the front-end. Specify any own-defined language here (see the developer doc-
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	umentation http://doc.otrs.org/ for more infomation). Please remember to use the HTML equivalentents for non-ASCII characters (i.e. for the German oe = o umlaut, it is necessary to use the ö symbol).
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'DefaultUsedLanguages'} = { 'ar_SA' => 'Arabic (Saudi Arabia)', 'bg' => 'Bulgarian (&#x0411;&#x044a;&#x043b;&#x0433;&#x0430;&#x0440;&#x0441;&#x043a;&#x0438;)', 'ca' => 'Catal&agrave;', 'cs' => 'Czech (&#x010c;esky)', 'da' => 'Dansk', 'de' => 'Deutsch', 'el' => 'Greek (&#x0395;&#x03bb;&#x03bb;&#x03b7;&#x03bd;&#x03b9;&#x03ba;&#x03ac;)', 'en' => 'English (United States)', 'en_CA' => 'English (Canada)', 'en_GB' => 'English (United Kingdom)', 'es' => 'Espa&ntilde;ol', 'es_CO' => 'Espa&ntilde;ol (Colombia)', 'es_MX' => 'Espa&ntilde;ol (M&eacute;xico)', 'et' => 'Eesti', 'fa' => 'Persian (&#x0641;&#x0627;&#x0631;&#x0633;&#x0649;)', 'fi' => 'Suomi', 'fr' => 'Fran&ccedil;ais', 'fr_CA' => 'Fran&ccedil;ais (Canada)', 'he' => 'Hebrew (#####)', 'hi' => 'Hindi', 'hr' => 'Hrvatski', 'hu' => 'Magyar', 'it' => 'Italiano', 'ja' => 'Japanese (&#x65e5;&#x672c;&#x8a9e)', 'lt' => 'Lietuvių kalba', 'lv' => 'Latvijas', 'ms' => 'Malay', 'nb_NO' => 'Norsk bokm&aring;l', 'nl' => 'Nederlands', 'pl' => 'Polski', 'pt' => 'Portugu&ecirc;s', 'pt_BR' => 'Portugu&ecirc;s Brasileiro', 'ru' => 'Russian (&#x0420;&#x0443;&#x0441;&#x0441;&#x043a;&#x0438;&#x0439;)', 'sk_SK' => 'Slovak (Sloven&#x010d;ina)', 'sl' => 'Slovenian (Sloven&#x0161;ina)', 'sr_Cyrl' => 'Serbian Cyrillic (srpski)', 'sr_Latn' => 'Serbian Latin (Srpski)', 'sv' => 'Svenska', 'tr' => 'T&uuml;r&ccedil;e', 'uk' => 'Ukrainian (&#x0423;&#x043a;&#x0440;&#x0430;&#x0457;&#x043d;&#x0441;&#x044c;&#x043a;&#x0430;)', 'vi_VN' => 'Vietnam (Vi&#x0246;t Nam)', 'zh_CN' => 'Chinese (Sim.) (&#x7b80;&#x4f53;&#x4e2d;&#x6587;)', 'zh_TW' => 'Chinese (Tradi.) (&#x6b63;&#x9ad4;&#x4e2d;&#x6587;)' }; </pre>

2.1.14. DefaultTheme

Description:	Defines the default front-end (HTML) theme to be used by the agents and customers. If you like, you can add your own theme. Please refer the administrator manual located at http://doc.otrs.org/ .
Group:	Framework

SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'DefaultTheme'} = 'Standard';</code>

2.1.15. DefaultTheme::HostBased

Description:	It is possible to configure different themes, for example to distinguish between agents and customers, to be used on a per-domain basis within the application. Using a regular expression (regex), you can configure a Key/Content pair to match a domain. The value in "Key" should match the domain, and the value in "Content" should be a valid theme on your system. Please see the example entries for the proper form of the regex.
Group:	Framework
SubGroup:	Core
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'DefaultTheme::HostBased'} = { 'host1\\.example\\.com' => 'SomeTheme1', 'host2\\.example\\.com' => 'SomeTheme2' };</code>

2.1.16. CheckMXRecord

Description:	Makes the application check the MX record of email addresses before sending an email or submitting a telephone or email ticket.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CheckMXRecord'} = '1';</code>

2.1.17. CheckMXRecord::Nameserver

Description:	Defines the address of a dedicated DNS server, if necessary, for the "CheckMXRecord" look-ups.
Group:	Framework
SubGroup:	Core
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'CheckMXRecord::Nameserver'} = 'ns.example.com';</code>

2.1.18. CheckEmailAddresses

Description:	Makes the application check the syntax of email addresses.
Group:	Framework
SubGroup:	Core

Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CheckEmailAddresses'} = '1';</code>

2.1.19. CheckEmailValidAddress

Description:	Defines a regular expression that excludes some addresses from the syntax check (if "CheckEmailAddresses" is set to "Yes"). Please enter a regex in this field for email addresses, that aren't syntactically valid, but are necessary for the system (i.e. "root@localhost").
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CheckEmailValidAddress'} = '^(root@localhost admin@localhost)\$';</code>

2.1.20. CheckEmailInvalidAddress

Description:	Defines a regular expression that filters all email addresses that should not be used in the application.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CheckEmailInvalidAddress'} = '@(example)\.\.\.\\$';</code>

2.1.21. CGILogPrefix

Description:	Specifies the text that should appear in the log file to denote a CGI script entry.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CGILogPrefix'} = 'OTRS-CGI';</code>

2.1.22. DemoSystem

Description:	Runs the system in "Demo" mode. If set to "Yes", agents can change preferences, such as selection of language and theme via the agent web interface. These changes are only valid for the current session. It will not be possible for agents to change their passwords.
Group:	Framework
SubGroup:	Core

Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'DemoSystem'} = '0';</code>

2.1.23. SwitchToUser

Description:	Allows the administrators to login as other users, via the users administration panel.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SwitchToUser'} = '0';</code>

2.1.24. SwitchToCustomer

Description:	Allows the administrators to login as other customers, via the customer user administration panel.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SwitchToCustomer'} = '0';</code>

2.1.25. SwitchToCustomer::PermissionGroup

Description:	Specifies the group where the user needs rw permissions so that he can access the "SwitchToCustomer" feature.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SwitchToCustomer::PermissionGroup'} = 'admin';</code>

2.1.26. NotificationSenderName

Description:	Specifies the name that should be used by the application when sending notifications. The sender name is used to build the complete display name for the notification master (i.e. "OTRS Notification Master" otrs@your.example.com). Notifications are messages such as en::Customer::QueueUpdate or en::Agent::Move.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'NotificationSenderName'} = 'OTRS Notification Master';</code>

2.1.27. NotificationSenderEmail

Description:	Specifies the email address that should be used by the application when sending notifications. The email address is used to build the complete display name for the notification master (i.e. "OTRS Notification Master" otrs@your.example.com). You can use the OTRS_CONFIG_FQDN variable as set in your configuration, or choose another email address. Notifications are messages such as en::Customer::QueueUpdate or en::Agent::Move.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'NotificationSenderEmail'} = 'otrs@<OTRS_CONFIG_FQDN>';</code>

2.1.28. System::Customer::Permission

Description:	Defines the standard permissions available for customers within the application. If more permissions are needed, you can enter them here. Permissions must be hard coded to be effective. Please ensure, when adding any of the afore mentioned permissions, that the "rw" permission remains the last entry.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'System::Customer::Permission'} = ['ro', 'rw'];</code>

2.1.29. LanguageDebug

Description:	Debugs the translation set. If this is set to "Yes" all strings (text) without translations are written to STDERR. This can be helpful when you are creating a new translation file. Otherwise, this option should remain set to "No".
Group:	Framework
SubGroup:	Core
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'LanguageDebug'} = '0';</code>

2.1.30. Secure::DisableBanner

Description:	If enabled, the OTRS version tag will be removed from the Webinterface, the HTTP headers and the X-Headers of outgoing mails.
Group:	Framework
SubGroup:	Core
Valid:	0

Required:	0
Config-Setting:	<code>\$Self->{'Secure::DisableBanner'} = '0';</code>

2.1.31. StandardTemplate2QueueByCreating

Description:	List of default Standard Templates which are assigned automatically to new Queues upon creation.
Group:	Framework
SubGroup:	Core
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'StandardTemplate2QueueByCreating'} = [</code> <code>];</code>

2.2. Core::Cache

2.2.1. Cache::Module

Description:	Selects the cache backend to use.
Group:	Framework
SubGroup:	Core::Cache
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Cache::Module'} = 'Kernel::System::Cache::FileStorable';</code>

2.2.2. Cache::SubdirLevels

Description:	Specify how many sub directory levels to use when creating cache files. This should prevent too many cache files being in one directory.
Group:	Framework
SubGroup:	Core::Cache
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Cache::SubdirLevels'} = '2';</code>

2.3. Core::CustomerCompany

2.3.1. CustomerCompany::EventModule-Post###100-UpdateCustomerUsers

Description:	Event module that updates customer users after an update of the Customer Company.
Group:	Framework
SubGroup:	Core::CustomerCompany
Valid:	1
Required:	0

Config-Setting:	<pre>\$Self->{'CustomerCompany::EventModulePost'}->{'100-UpdateCustomerUsers'} = { 'Event' => 'CustomerCompanyUpdate', 'Module' => 'Kernel::System::CustomerCompany::Event::CustomerUserUpdate', 'Transaction' => '0' };</pre>
-----------------	---

2.4. Core::CustomerUser

2.4.1. CustomerUser::EventModulePost###100-UpdateServiceMembership

Description:	Event module that updates customer user service membership if login changes.
Group:	Framework
SubGroup:	Core::CustomerUser
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerUser::EventModulePost'}->{'100-UpdateServiceMembership'} = { 'Event' => 'CustomerUserUpdate', 'Module' => 'Kernel::System::CustomerUser::Event::ServiceMemberUpdate', 'Transaction' => '0' };</pre>

2.5. Core::LinkObject

2.5.1. LinkObject::ViewMode

Description:	Determines the way the linked objects are displayed in each zoom mask.
Group:	Framework
SubGroup:	Core::LinkObject
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'LinkObject::ViewMode'} = 'Simple';</pre>

2.5.2. LinkObject::Type###Normal

Description:	Defines the link type 'Normal'. If the source name and the target name contain the same value, the resulting link is a non-directional one; otherwise, the result is a directional link.
Group:	Framework
SubGroup:	Core::LinkObject
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'LinkObject::Type'}->{'Normal'} = { 'SourceName' => 'Normal', 'TargetName' => 'Normal' };</pre>

2.5.3. LinkObject::Type###ParentChild

Description:	Defines the link type 'ParentChild'. If the source name and the target name contain the same value, the resulting link is a non-directional one; otherwise, the result is a directional link.
Group:	Framework
SubGroup:	Core::LinkObject
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'LinkObject::Type'}->{'ParentChild'} = { 'SourceName' => 'Parent', 'TargetName' => 'Child' };</pre>

2.5.4. LinkObject::TypeGroup###0001

Description:	Defines the link type groups. The link types of the same group cancel one another. Example: If ticket A is linked per a 'Normal' link with ticket B, then these tickets could not be additionally linked with link of a 'ParentChild' relationship.
Group:	Framework
SubGroup:	Core::LinkObject
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'LinkObject::TypeGroup'}->{'0001'} = ['Normal', 'ParentChild'];</pre>

2.6. Core::Log

2.6.1. LogModule

Description:	Defines the log module for the system. "File" writes all messages in a given logfile, "SysLog" uses the syslog daemon of the system, e.g. syslogd.
Group:	Framework
SubGroup:	Core::Log
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'LogModule'} = 'Kernel::System::Log::SysLog';</pre>

2.6.2. LogModule::SysLog::Facility

Description:	If "SysLog" was selected for LogModule, a special log facility can be specified.
Group:	Framework
SubGroup:	Core::Log
Valid:	1
Required:	1

Config-Setting:	<code>\$Self->{'LogModule::SysLog::Facility'} = 'user';</code>
-----------------	---

2.6.3. LogModule::SysLog::LogSock

Description:	If "SysLog" was selected for LogModule, a special log sock can be specified (on solaris you may need to use 'stream').
Group:	Framework
SubGroup:	Core::Log
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'LogModule::SysLog::LogSock'} = 'unix';</code>

2.6.4. LogModule::SysLog::Charset

Description:	If "SysLog" was selected for LogModule, the charset that should be used for logging can be specified.
Group:	Framework
SubGroup:	Core::Log
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'LogModule::SysLog::Charset'} = 'utf-8';</code>

2.6.5. LogModule::LogFile

Description:	If "file" was selected for LogModule, a logfile must be specified. If the file doesn't exist, it will be created by the system.
Group:	Framework
SubGroup:	Core::Log
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'LogModule::LogFile'} = '/tmp/otrs.log';</code>

2.6.6. LogModule::LogFile::Date

Description:	Adds a suffix with the actual year and month to the OTRS log file. A logfile for every month will be created.
Group:	Framework
SubGroup:	Core::Log
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'LogModule::LogFile::Date'} = '0';</code>

2.7. Core::MIME-Viewer

2.7.1. MIME-Viewer###application/excel

Description:	Specifies the path to the converter that allows the view of Microsoft Excel files, in the web interface.
--------------	--

Group:	Framework
SubGroup:	Core::MIME-Viewer
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'MIME-Viewer'}->{'application/excel'} = 'xlhtml';</code>

2.7.2. MIME-Viewer###application/msword

Description:	Specifies the path to the converter that allows the view of Microsoft Word files, in the web interface.
Group:	Framework
SubGroup:	Core::MIME-Viewer
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'MIME-Viewer'}->{'application/msword'} = 'wvWare';</code>

2.7.3. MIME-Viewer###application/pdf

Description:	Specifies the path to the converter that allows the view of PDF documents, in the web interface.
Group:	Framework
SubGroup:	Core::MIME-Viewer
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'MIME-Viewer'}->{'application/pdf'} = 'pdftohtml -stdout -i';</code>

2.7.4. MIME-Viewer###text/xml

Description:	Specifies the path to the converter that allows the view of XML files, in the web interface.
Group:	Framework
SubGroup:	Core::MIME-Viewer
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'MIME-Viewer'}->{'text/xml'} = '<OTRS_CONFIG_Home>/scripts/tools/xml2html.pl';</code>

2.8. Core::MirrorDB

2.8.1. Core::MirrorDB::DSN

Description:	If you want to use a mirror database for agent ticket fulltext search or to generate stats, specify the DSN to this database.
Group:	Framework
SubGroup:	Core::MirrorDB
Valid:	0

Required:	0
Config-Setting:	<code>\$Self->{'Core::MirrorDB::DSN'} = 'DBI:mysql:database=mirrordb;host=mirrordbhost';</code>

2.8.2. Core::MirrorDB::User

Description:	If you want to use a mirror database for agent ticket fulltext search or to generate stats, the user to authenticate to this database can be specified.
Group:	Framework
SubGroup:	Core::MirrorDB
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Core::MirrorDB::User'} = 'some_user';</code>

2.8.3. Core::MirrorDB::Password

Description:	If you want to use a mirror database for agent ticket fulltext search or to generate stats, the password to authenticate to this database can be specified.
Group:	Framework
SubGroup:	Core::MirrorDB
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Core::MirrorDB::Password'} = 'some_password';</code>

2.9. Core::PDF

2.9.1. PDF

Description:	Enables PDF output. The CPAN module PDF::API2 is required, if not installed, PDF output will be disabled.
Group:	Framework
SubGroup:	Core::PDF
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PDF'} = '1';</code>

2.9.2. PDF::LogoFile

Description:	Specifies the path of the file for the logo in the page header (gif jpg png, 700 x 100 pixel).
Group:	Framework
SubGroup:	Core::PDF
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PDF::LogoFile'} = '<OTRS_CONFIG_Home>/var/logo-otrs.png';</code>

2.9.3. PDF::PageSize

Description:	Defines the standard size of PDF pages.
Group:	Framework
SubGroup:	Core::PDF
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PDF::PageSize'} = 'a4';</code>

2.9.4. PDF::MaxPages

Description:	Defines the maximum number of pages per PDF file.
Group:	Framework
SubGroup:	Core::PDF
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PDF::MaxPages'} = '100';</code>

2.9.5. PDF::TTFontFile###Proportional

Description:	Defines the path and TTF-File to handle proportional font in PDF documents.
Group:	Framework
SubGroup:	Core::PDF
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PDF::TTFontFile'}->{'Proportional'} = 'DejaVuSans.ttf';</code>

2.9.6. PDF::TTFontFile###ProportionalBold

Description:	Defines the path and TTF-File to handle bold proportional font in PDF documents.
Group:	Framework
SubGroup:	Core::PDF
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PDF::TTFontFile'}->{'ProportionalBold'} = 'DejaVuSans-Bold.ttf';</code>

2.9.7. PDF::TTFontFile###ProportionalItalic

Description:	Defines the path and TTF-File to handle italic proportional font in PDF documents.
Group:	Framework
SubGroup:	Core::PDF
Valid:	0
Required:	0

Config-Setting:	<code>\$Self->{'PDF::TTFontFile'}->{'ProportionalItalic'} = 'DejaVuSans-Oblique.ttf';</code>
-----------------	--

2.9.8. PDF::TTFontFile###ProportionalBoldItalic

Description:	Defines the path and TTF-File to handle bold italic proportional font in PDF documents.
Group:	Framework
SubGroup:	Core::PDF
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PDF::TTFontFile'}->{'ProportionalBoldItalic'} = 'DejaVuSans-BoldOblique.ttf';</code>

2.9.9. PDF::TTFontFile###Monospaced

Description:	Defines the path and TTF-File to handle monospaced font in PDF documents.
Group:	Framework
SubGroup:	Core::PDF
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PDF::TTFontFile'}->{'Monospaced'} = 'DejaVuSansMono.ttf';</code>

2.9.10. PDF::TTFontFile###MonospacedBold

Description:	Defines the path and TTF-File to handle bold monospaced font in PDF documents.
Group:	Framework
SubGroup:	Core::PDF
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'PDF::TTFontFile'}->{'MonospacedBold'} = 'DejaVuSansMono-Bold.ttf';</code>

2.9.11. PDF::TTFontFile###MonospacedItalic

Description:	Defines the path and TTF-File to handle italic monospaced font in PDF documents.
Group:	Framework
SubGroup:	Core::PDF
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'PDF::TTFontFile'}->{'MonospacedItalic'} = 'DejaVuSansMono-Oblique.ttf';</code>

2.9.12. PDF::TTFontFile###MonospacedBoldItalic

Description:	Defines the path and TTF-File to handle bold italic monospaced font in PDF documents.
--------------	---

Group:	Framework
SubGroup:	Core::PDF
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'PDF::TTFontFile'}->{'MonospacedBoldItalic'} = 'DejaVuSansMono-BoldOblique.ttf';</code>

2.10. Core::Package

2.10.1. Package::FileUpload

Description:	Enables file upload in the package manager frontend.
Group:	Framework
SubGroup:	Core::Package
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Package::FileUpload'} = '1';</code>

2.10.2. Package::RepositoryRoot

Description:	Defines the location to get online repository list for additional packages. The first available result will be used.
Group:	Framework
SubGroup:	Core::Package
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Package::RepositoryRoot'} = ['http://ftp.otrs.org/pub/otrs/misc/packages/repository.xml'];</code>

2.10.3. Package::RepositoryList

Description:	Defines the list of online repositories. Another installations can be used as repository, for example: Key="http://example.com/otrs/public.pl?Action=PublicRepository;File=" and Content="Some Name".
Group:	Framework
SubGroup:	Core::Package
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Package::RepositoryList'} = { 'ftp://ftp.example.com/pub/otrs/misc/packages/' => '[Example] ftp://ftp.example.com/' };</code>

2.10.4. Package::RepositoryAccessRegExp

Description:	Defines the IP regular expression for accessing the local repository. You need to enable this to have access to your local repository and the package::RepositoryList is required on the remote host.
--------------	---

Group:	Framework
SubGroup:	Core::Package
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Package::RepositoryAccessRegExp'} = '127\\.0\\.0\\.1';</code>

2.10.5. Package::Timeout

Description:	Sets the timeout (in seconds) for package downloads. Overwrites "WebUserAgent::Timeout".
Group:	Framework
SubGroup:	Core::Package
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Package::Timeout'} = '15';</code>

2.10.6. Package::Proxy

Description:	Fetches packages via proxy. Overwrites "WebUserAgent::Proxy".
Group:	Framework
SubGroup:	Core::Package
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Package::Proxy'} = 'http://proxy.sn.no:8001/';</code>

2.10.7. Package::ShowFeatureAddons

Description:	Toggles display of OTRS FeatureAddons list in PackageManager.
Group:	Framework
SubGroup:	Core::Package
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Package::ShowFeatureAddons'} = '1';</code>

2.10.8. Package::EventModule###99-Support-DataSend

Description:	Package event module file a scheduler task for update registration.
Group:	Framework
SubGroup:	Core::Package
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Package::EventModule'}->{'99-SupportDataSend'} = { 'Event' => '(PackageInstall PackageReinstall PackageUpgrade PackageUninstall)', 'Module' => 'Kernel::System::Package::Event::SupportDataSend', 'Transaction' => '1'</code>

```
};
```

2.11. Core::PerformanceLog

2.11.1. PerformanceLog

Description:	Enables performance log (to log the page response time). It will affect the system performance. Frontend::Module###AdminPerformanceLog must be enabled.
Group:	Framework
SubGroup:	Core::PerformanceLog
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'PerformanceLog'} = '0';</code>

2.11.2. PerformanceLog::File

Description:	Specifies the path of the file for the performance log.
Group:	Framework
SubGroup:	Core::PerformanceLog
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PerformanceLog::File'} = '<OTRS_CONFIG_Home>/var/log/Performance.log';</code>

2.11.3. PerformanceLog::FileMax

Description:	Defines the maximum size (in MB) of the log file.
Group:	Framework
SubGroup:	Core::PerformanceLog
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PerformanceLog::FileMax'} = '25';</code>

2.12. Core::ReferenceData

2.12.1. ReferenceData::OwnCountryList

Description:	This setting allows you to override the built-in country list with your own list of countries. This is particularly handy if you just want to use a small select group of countries.
Group:	Framework
SubGroup:	Core::ReferenceData
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'ReferenceData::OwnCountryList'} = { 'AT' => 'Austria', 'CH' => 'Switzerland',</code>

```
'DE' => 'Germany'
};
```

2.13. Core::SOAP

2.13.1. SOAP::User

Description:	Defines the username to access the SOAP handle (bin/cgi-bin/rpc.pl).
Group:	Framework
SubGroup:	Core::SOAP
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'SOAP::User'} = 'some_user';</code>

2.13.2. SOAP::Password

Description:	Defines the password to access the SOAP handle (bin/cgi-bin/rpc.pl).
Group:	Framework
SubGroup:	Core::SOAP
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'SOAP::Password'} = 'some_pass';</code>

2.13.3. SOAP::Keep-Alive

Description:	Enable keep-alive connection header for SOAP responses.
Group:	Framework
SubGroup:	Core::SOAP
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SOAP::Keep-Alive'} = '0';</code>

2.14. Core::Sendmail

2.14.1. SendmailModule

Description:	Defines the module to send emails. "Sendmail" directly uses the sendmail binary of your operating system. Any of the "SMTP" mechanisms use a specified (external) mailserver. "DoNotSendEmail" doesn't send emails and it is useful for test systems.
Group:	Framework
SubGroup:	Core::Sendmail
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SendmailModule'} = 'Kernel::System::Email::Sendmail';</code>

2.14.2. SendmailModule::CMD

Description:	If "Sendmail" was selected as SendmailModule, the location of the sendmail binary and the needed options must be specified.
Group:	Framework
SubGroup:	Core::Sendmail
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SendmailModule::CMD'} = '/usr/sbin/sendmail -i -f';</code>

2.14.3. SendmailModule::Host

Description:	If any of the "SMTP" mechanisms was selected as SendmailModule, the mailhost that sends out the mails must be specified.
Group:	Framework
SubGroup:	Core::Sendmail
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SendmailModule::Host'} = 'mail.example.com';</code>

2.14.4. SendmailModule::Port

Description:	If any of the "SMTP" mechanisms was selected as SendmailModule, the port where your mailserver is listening for incoming connections must be specified.
Group:	Framework
SubGroup:	Core::Sendmail
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'SendmailModule::Port'} = '25';</code>

2.14.5. SendmailModule::AuthUser

Description:	If any of the "SMTP" mechanisms was selected as SendmailModule, and authentication to the mail server is needed, an username must be specified.
Group:	Framework
SubGroup:	Core::Sendmail
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'SendmailModule::AuthUser'} = 'MailserverLogin';</code>

2.14.6. SendmailModule::AuthPassword

Description:	If any of the "SMTP" mechanisms was selected as SendmailModule, and authentication to the mail server is needed, a password must be specified.
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Group:	Framework
SubGroup:	Core::Sendmail
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'SendmailModule::AuthPassword'} = 'MailserverPassword';</code>

2.14.7. SendmailBcc

Description:	Sends all outgoing email via bcc to the specified address. Please use this only for backup reasons.
Group:	Framework
SubGroup:	Core::Sendmail
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'SendmailBcc'} = '';</code>

2.14.8. SendmailEnvelopeFrom

Description:	If set, this address is used as envelope sender in outgoing messages (not notifications - see below). If no address is specified, the envelope sender is equal to queue e-mail address.
Group:	Framework
SubGroup:	Core::Sendmail
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'SendmailEnvelopeFrom'} = '';</code>

2.14.9. SendmailNotificationEnvelopeFrom

Description:	If set, this address is used as envelope sender header in outgoing notifications. If no address is specified, the envelope sender header is empty.
Group:	Framework
SubGroup:	Core::Sendmail
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'SendmailNotificationEnvelopeFrom'} = '';</code>

2.14.10. SendmailEncodingForce

Description:	Forces encoding of outgoing emails (7bit 8bit quoted-printable base64).
Group:	Framework
SubGroup:	Core::Sendmail
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'SendmailEncodingForce'} = 'base64';</code>

2.15. Core::Session

2.15.1. SessionModule

Description:	Defines the module used to store the session data. With "DB" the frontend server can be splitted from the db server. "FS" is faster.
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SessionModule'} = 'Kernel::System::AuthSession::DB';</code>

2.15.2. SessionName

Description:	Defines the name of the session key. E.g. Session, SessionID or OTRS.
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SessionName'} = 'OTRSAgentInterface';</code>

2.15.3. CustomerPanelSessionName

Description:	Defines the name of the key for customer sessions.
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerPanelSessionName'} = 'OTRSCustomerInterface';</code>

2.15.4. SessionCheckRemoteIP

Description:	Turns on the remote ip address check. It should be set to "No" if the application is used, for example, via a proxy farm or a dialup connection, because the remote ip address is mostly different for the requests.
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SessionCheckRemoteIP'} = '1';</code>

2.15.5. SessionDeleteIfNotRemoteID

Description:	Deletes a session if the session id is used with an invalid remote IP address.
Group:	Framework

SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SessionDeleteIfNotRemoteID'} = '1';</code>

2.15.6. SessionMaxTime

Description:	Defines the maximal valid time (in seconds) for a session id.
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SessionMaxTime'} = '57600';</code>

2.15.7. SessionMaxIdleTime

Description:	Sets the inactivity time (in seconds) to pass before a session is killed and a user is logged out.
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SessionMaxIdleTime'} = '21600';</code>

2.15.8. SessionActiveTime

Description:	Sets the time (in seconds) a user is marked as active.
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SessionActiveTime'} = '600';</code>

2.15.9. SessionDeleteIfTimeToOld

Description:	Deletes requested sessions if they have timed out.
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SessionDeleteIfTimeToOld'} = '1';</code>

2.15.10. SessionUseCookie

Description:	Makes the session management use html cookies. If html cookies are disabled or if the client browser disabled html cookies, then the system will work as usual and append the session id to the links.
--------------	--

Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SessionUseCookie'} = '1';</code>

2.15.11. SessionUseCookieAfterBrowserClose

Description:	Stores cookies after the browser has been closed.
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SessionUseCookieAfterBrowserClose'} = '0';</code>

2.15.12. SessionCSRFProtection

Description:	Protection against CSRF (Cross Site Request Forgery) exploits (for more info see http://en.wikipedia.org/wiki/Cross-site_request_forgery).
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SessionCSRFProtection'} = '1';</code>

2.15.13. AgentSessionLimit

Description:	Sets the maximum number of active agents within the timespan defined in SessionActiveTime.
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'AgentSessionLimit'} = '100';</code>

2.15.14. CustomerSessionLimit

Description:	Sets the maximum number of active customers within the timespan defined in SessionActiveTime.
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'CustomerSessionLimit'} = '100';</code>

2.15.15. SessionDir

Description:	If "FS" was selected for SessionModule, a directory where the session data will be stored must be specified.
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SessionDir'} = '<OTRS_CONFIG_Home>/var/sessions';</code>

2.15.16. SessionTable

Description:	If "DB" was selected for SessionModule, a table in database where session data will be stored must be specified.
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SessionTable'} = 'sessions';</code>

2.16. Core::SpellChecker

2.16.1. SpellChecker

Description:	Enables spell checker support.
Group:	Framework
SubGroup:	Core::SpellChecker
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SpellChecker'} = '0';</code>

2.16.2. SpellCheckerBin

Description:	Install ispell or aspell on the system, if you want to use a spell checker. Please specify the path to the aspell or ispell binary on your operating system.
Group:	Framework
SubGroup:	Core::SpellChecker
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SpellCheckerBin'} = '/usr/bin/ispell';</code>

2.16.3. SpellCheckerDictDefault

Description:	Defines the default spell checker dictionary.
Group:	Framework
SubGroup:	Core::SpellChecker

Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SpellCheckerDictDefault'} = 'english';</code>

2.16.4. SpellCheckerIgnore

Description:	Defines a default list of words, that are ignored by the spell checker.
Group:	Framework
SubGroup:	Core::SpellChecker
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SpellCheckerIgnore'} = ['www', 'webmail', 'https', 'http', 'html', 'rfc'];</code>

2.17. Core::Stats

2.17.1. Stats::StatsHook

Description:	Sets the stats hook.
Group:	Framework
SubGroup:	Core::Stats
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::StatsHook'} = 'Stat#';</code>

2.17.2. Stats::StatsStartNumber

Description:	Start number for statistics counting. Every new stat increments this number.
Group:	Framework
SubGroup:	Core::Stats
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::StatsStartNumber'} = '10000';</code>

2.17.3. Stats::MaxXaxisAttributes

Description:	Defines the default maximum number of X-axis attributes for the time scale.
Group:	Framework
SubGroup:	Core::Stats
Valid:	0
Required:	0

Config-Setting:	<code>\$Self->{'Stats::MaxXaxisAttributes'} = '1000';</code>
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2.18. Core::Stats::Graph

2.18.1. Stats::Graph::t_margin

Description:	Specifies the top margin of the chart.
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::t_margin'} = '10';</code>

2.18.2. Stats::Graph::l_margin

Description:	Specifies the left margin of the chart.
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::l_margin'} = '10';</code>

2.18.3. Stats::Graph::b_margin

Description:	Specifies the bottom margin of the chart.
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::b_margin'} = '10';</code>

2.18.4. Stats::Graph::r_margin

Description:	Specifies the right margin of the chart.
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::r_margin'} = '20';</code>

2.18.5. Stats::Graph::bgclr

Description:	Specifies the background color of the picture.
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1

Config-Setting:	<code>\$Self->{'Stats::Graph::bgclr'} = 'white';</code>
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2.18.6. Stats::Graph::transparent

Description:	Makes the picture transparent.
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::transparent'} = '0';</code>

2.18.7. Stats::Graph::fgclr

Description:	Specifies the border color of the chart.
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::fgclr'} = 'black';</code>

2.18.8. Stats::Graph::boxclr

Description:	Specifies the background color of the chart.
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::boxclr'} = 'white';</code>

2.18.9. Stats::Graph::accentclr

Description:	Specifies the border color of the legend.
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::accentclr'} = 'black';</code>

2.18.10. Stats::Graph::legendclr

Description:	Specifies the text color of the legend.
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::legendclr'} = 'black';</code>

2.18.11. Stats::Graph::textclr

Description:	Specifies the text color of the chart (e. g. caption).
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::textclr'} = 'black';</code>

2.18.12. Stats::Graph::dclrs

Description:	Defines the colors for the graphs.
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::dclrs'} = ['red', 'green', 'blue', 'yellow', 'purple', 'orange', 'pink', 'marine', 'cyan', 'lgray', 'lblue', 'lyellow', 'lgreen', 'lred', 'lpurple', 'lorange', 'lbrown'];</code>

2.18.13. Stats::Graph::TitleFont

Description:	Defines the title font in graphs (place custom fonts in var/fonts).
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::TitleFont'} = 'DejaVuSans-Bold.ttf';</code>

2.18.14. Stats::Graph::LegendFont

Description:	Defines the legend font in graphs (place custom fonts in var/fonts).
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::LegendFont'} = 'DejaVuSans.ttf';</code>

2.18.15. Stats::Graph::line_width

Description:	Defines the boldness of the line drawn by the graph.
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::line_width'} = '1';</code>

2.18.16. Stats::Graph::legend_placement

Description:	Defines the placement of the legend. This should be a two letter key of the form: 'B[LCR] R[TCB]'. The first letter indicates the placement (Bottom or Right), and the second letter the alignment (Left, Right, Center, Top, or Bottom).
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::legend_placement'} = 'BC';</code>

2.18.17. Stats::Graph::legend_spacing

Description:	Defines the spacing of the legends.
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::legend_spacing'} = '4';</code>

2.18.18. Stats::Graph::legend_marker_width

Description:	Defines the width of the legend.
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::legend_marker_width'} = '12';</code>

2.18.19. Stats::Graph::legend_marker_height

Description:	Defines the height of the legend.
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1

Config-Setting:	<code>\$Self->{'Stats::Graph::legend_marker_height'} = '8';</code>
-----------------	---

2.19. Core::Time

2.19.1. TimeInputFormat

Description:	Defines the date input format used in forms (option or input fields).
Group:	Framework
SubGroup:	Core::Time
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeInputFormat'} = 'Option';</code>

2.19.2. TimeShowAlwaysLong

Description:	Shows time in long format (days, hours, minutes), if set to "Yes"; or in short format (days, hours), if set to "No".
Group:	Framework
SubGroup:	Core::Time
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeShowAlwaysLong'} = '0';</code>

2.19.3. TimeZone

Description:	Sets the system time zone (required a system with UTC as system time). Otherwise this is a diff time to the local time.
Group:	Framework
SubGroup:	Core::Time
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TimeZone'} = '+0';</code>

2.19.4. TimeZoneUser

Description:	Sets the user time zone per user (required a system with UTC as system time and UTC under TimeZone). Otherwise this is a diff time to the local time.
Group:	Framework
SubGroup:	Core::Time
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'TimeZoneUser'} = '0';</code>

2.19.5. TimeZoneUserBrowserAutoOffset

Description:	Sets the user time zone per user based on java script / browser time zone offset feature at login time.
--------------	---

Group:	Framework
SubGroup:	Core::Time
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'TimeZoneUserBrowserAutoOffset'} = '1';</code>

2.19.6. CalendarWeekDayStart

Description:	Define the start day of the week for the date picker.
Group:	Framework
SubGroup:	Core::Time
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CalendarWeekDayStart'} = '1';</code>

2.19.7. TimeVacationDays

Description:	Adds the permanent vacation days. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDays'} = { '1' => { '1' => 'New Year\'s Day' }, '12' => { '24' => 'Christmas Eve', '25' => 'First Christmas Day', '26' => 'Second Christmas Day', '31' => 'New Year\'s Eve' }, '5' => { '1' => 'International Workers\' Day' } };</pre>

2.19.8. TimeVacationDaysOneTime

Description:	Adds the one time vacation days. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDaysOneTime'} = { '2004' => { '1' => { '1' => 'test' } } };</pre>

2.19.9. TimeWorkingHours

Description:	Defines the hours and week days to count the working time.
Group:	Framework
SubGroup:	Core::Time
Valid:	1
Required:	1
Config-Setting:	<pre> \$self->{'TimeWorkingHours'} = { 'Fri' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Mon' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Sat' => [], 'Sun' => [], 'Thu' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Tue' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', </pre>

```

    '20'
  ],
  'Wed' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ]
];

```

2.19.10. TimeShowCompleteDescription

Description:	Shows time use complete description (days, hours, minutes), if set to "Yes"; or just first letter (d, h, m), if set to "No".
Group:	Framework
SubGroup:	Core::Time
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeShowCompleteDescription'} = '0';</code>

2.20. Core::Time::Calendar1

2.20.1. TimeZone::Calendar1Name

Description:	Defines the name of the indicated calendar.
Group:	Framework
SubGroup:	Core::Time::Calendar1
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar1Name'} = 'Calendar Name 1';</code>

2.20.2. TimeZone::Calendar1

Description:	Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.
Group:	Framework
SubGroup:	Core::Time::Calendar1
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar1'} = '0';</code>

2.20.3. TimeVacationDays::Calendar1

Description:	Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
--------------	--

Group:	Framework
SubGroup:	Core::Time::Calendar1
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDays::Calendar1'} = { '1' => { '1' => 'New Year\'s Day' }, '12' => { '24' => 'Christmas Eve', '25' => 'First Christmas Day', '26' => 'Second Christmas Day', '31' => 'New Year\'s Eve' }, '5' => { '1' => 'International Workers\' Day' } }</pre>

2.20.4. TimeVacationDaysOneTime::Calendar1

Description:	Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar1
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDaysOneTime::Calendar1'} = { '2004' => { '1' => { '1' => 'test' } } }</pre>

2.20.5. TimeWorkingHours::Calendar1

Description:	Defines the hours and week days of the indicated calendar, to count the working time.
Group:	Framework
SubGroup:	Core::Time::Calendar1
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeWorkingHours::Calendar1'} = { 'Fri' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], }</pre>

```

'Mon' => [
  '8',
  '9',
  '10',
  '11',
  '12',
  '13',
  '14',
  '15',
  '16',
  '17',
  '18',
  '19',
  '20'
],
'Sat' => [],
'Sun' => [],
'Thu' => [
  '8',
  '9',
  '10',
  '11',
  '12',
  '13',
  '14',
  '15',
  '16',
  '17',
  '18',
  '19',
  '20'
],
'Tue' => [
  '8',
  '9',
  '10',
  '11',
  '12',
  '13',
  '14',
  '15',
  '16',
  '17',
  '18',
  '19',
  '20'
],
'Wed' => [
  '8',
  '9',
  '10',
  '11',
  '12',
  '13',
  '14',
  '15',
  '16',
  '17',
  '18',
  '19',
  '20'
]
];

```

2.21. Core::Time::Calendar2

2.21.1. TimeZone::Calendar2Name

Description:	Defines the name of the indicated calendar.
--------------	---

Group:	Framework
SubGroup:	Core::Time::Calendar2
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar2Name'} = 'Calendar Name 2';</code>

2.21.2. TimeZone::Calendar2

Description:	Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.
Group:	Framework
SubGroup:	Core::Time::Calendar2
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar2'} = '0';</code>

2.21.3. TimeVacationDays::Calendar2

Description:	Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar2
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDays::Calendar2'} = { '1' => { '1' => 'New Year\'s Day' }, '12' => { '24' => 'Christmas Eve', '25' => 'First Christmas Day', '26' => 'Second Christmas Day', '31' => 'New Year\'s Eve' }, '5' => { '1' => 'International Workers\' Day' } };</pre>

2.21.4. TimeVacationDaysOneTime::Calendar2

Description:	Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar2
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDaysOneTime::Calendar2'} = { '2004' => { '1' => {</pre>

```
'1' => 'test'
}
}
};
```

2.21.5. TimeWorkingHours::Calendar2

Description:	Defines the hours and week days of the indicated calendar, to count the working time.
Group:	Framework
SubGroup:	Core::Time::Calendar2
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeWorkingHours::Calendar2'} = { 'Fri' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Mon' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Sat' => [], 'Sun' => [], 'Thu' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Tue' => ['8', '9', '10', '11', '12',</pre>

```

    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ],
  'Wed' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ]
}
};

```

2.22. Core::Time::Calendar3

2.22.1. TimeZone::Calendar3Name

Description:	Defines the name of the indicated calendar.
Group:	Framework
SubGroup:	Core::Time::Calendar3
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar3Name'} = 'Calendar Name 3';</code>

2.22.2. TimeZone::Calendar3

Description:	Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.
Group:	Framework
SubGroup:	Core::Time::Calendar3
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar3'} = '0';</code>

2.22.3. TimeVacationDays::Calendar3

Description:	Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar3

Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDays::Calendar3'} = { '1' => { '1' => 'New Year\'s Day' }, '12' => { '24' => 'Christmas Eve', '25' => 'First Christmas Day', '26' => 'Second Christmas Day', '31' => 'New Year\'s Eve' }, '5' => { '1' => 'International Workers\' Day' } };</pre>

2.22.4. TimeVacationDaysOneTime::Calendar3

Description:	Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar3
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDaysOneTime::Calendar3'} = { '2004' => { '1' => { '1' => 'test' } } };</pre>

2.22.5. TimeWorkingHours::Calendar3

Description:	Defines the hours and week days of the indicated calendar, to count the working time.
Group:	Framework
SubGroup:	Core::Time::Calendar3
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeWorkingHours::Calendar3'} = { 'Fri' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Mon' => ['8',</pre>

```

'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
],
'Sat' => [],
'Sun' => [],
'Thu' => [
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
],
'Tue' => [
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
],
'Wed' => [
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
]
]
};

```

2.23. Core::Time::Calendar4

2.23.1. TimeZone::Calendar4Name

Description:	Defines the name of the indicated calendar.
Group:	Framework

SubGroup:	Core::Time::Calendar4
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar4Name'} = 'Calendar Name 4';</code>

2.23.2. TimeZone::Calendar4

Description:	Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.
Group:	Framework
SubGroup:	Core::Time::Calendar4
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar4'} = '0';</code>

2.23.3. TimeVacationDays::Calendar4

Description:	Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar4
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDays::Calendar4'} = { '1' => { '1' => 'New Year\'s Day' }, '12' => { '24' => 'Christmas Eve', '25' => 'First Christmas Day', '26' => 'Second Christmas Day', '31' => 'New Year\'s Eve' }, '5' => { '1' => 'International Workers\' Day' } };</pre>

2.23.4. TimeVacationDaysOneTime::Calendar4

Description:	Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar4
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDaysOneTime::Calendar4'} = { '2004' => { '1' => { '1' => 'test' } } };</pre>

```

    }
  }
};

```

2.23.5. TimeWorkingHours::Calendar4

Description:	Defines the hours and week days of the indicated calendar, to count the working time.
Group:	Framework
SubGroup:	Core::Time::Calendar4
Valid:	1
Required:	1
Config-Setting:	<pre> \$self->{'TimeWorkingHours::Calendar4'} = { 'Fri' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Mon' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Sat' => [], 'Sun' => [], 'Thu' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Tue' => ['8', '9', '10', '11', '12', '13', </pre>

```

    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ],
  'Wed' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ]
];

```

2.24. Core::Time::Calendar5

2.24.1. TimeZone::Calendar5Name

Description:	Defines the name of the indicated calendar.
Group:	Framework
SubGroup:	Core::Time::Calendar5
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar5Name'} = 'Calendar Name 5';</code>

2.24.2. TimeZone::Calendar5

Description:	Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.
Group:	Framework
SubGroup:	Core::Time::Calendar5
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar5'} = '0';</code>

2.24.3. TimeVacationDays::Calendar5

Description:	Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar5
Valid:	1

Required:	1
Config-Setting:	<pre> \$Self->{'TimeVacationDays::Calendar5'} = { '1' => { '1' => 'New Year\'s Day' }, '12' => { '24' => 'Christmas Eve', '25' => 'First Christmas Day', '26' => 'Second Christmas Day', '31' => 'New Year\'s Eve' }, '5' => { '1' => 'International Workers\' Day' } } }; </pre>

2.24.4. TimeVacationDaysOneTime::Calendar5

Description:	Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar5
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'TimeVacationDaysOneTime::Calendar5'} = { '2004' => { '1' => { '1' => 'test' } } } }; </pre>

2.24.5. TimeWorkingHours::Calendar5

Description:	Defines the hours and week days of the indicated calendar, to count the working time.
Group:	Framework
SubGroup:	Core::Time::Calendar5
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'TimeWorkingHours::Calendar5'} = { 'Fri' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Mon' => ['8', '9', '10', </pre>

```

'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
],
'Sat' => [],
'Sun' => [],
'Thu' => [
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
],
'Tue' => [
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
],
'Wed' => [
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
]
];

```

2.25. Core::Time::Calendar6

2.25.1. TimeZone::Calendar6Name

Description:	Defines the name of the indicated calendar.
Group:	Framework
SubGroup:	Core::Time::Calendar6

Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar6Name'} = 'Calendar Name 6';</code>

2.25.2. TimeZone::Calendar6

Description:	Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.
Group:	Framework
SubGroup:	Core::Time::Calendar6
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar6'} = '0';</code>

2.25.3. TimeVacationDays::Calendar6

Description:	Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar6
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDays::Calendar6'} = { '1' => { '1' => 'New Year\'s Day' }, '12' => { '24' => 'Christmas Eve', '25' => 'First Christmas Day', '26' => 'Second Christmas Day', '31' => 'New Year\'s Eve' }, '5' => { '1' => 'International Workers\' Day' } };</pre>

2.25.4. TimeVacationDaysOneTime::Calendar6

Description:	Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar6
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDaysOneTime::Calendar6'} = { '2004' => { '1' => { '1' => 'test' } } };</pre>

```
};
```

2.25.5. TimeWorkingHours::Calendar6

Description:	Defines the hours and week days of the indicated calendar, to count the working time.
Group:	Framework
SubGroup:	Core::Time::Calendar6
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeWorkingHours::Calendar6'} = { 'Fri' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Mon' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Sat' => [], 'Sun' => [], 'Thu' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Tue' => ['8', '9', '10', '11', '12', '13', '14', '15',</pre>

```

    '16',
    '17',
    '18',
    '19',
    '20'
  ],
  'Wed' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ]
];

```

2.26. Core::Time::Calendar7

2.26.1. TimeZone::Calendar7Name

Description:	Defines the name of the indicated calendar.
Group:	Framework
SubGroup:	Core::Time::Calendar7
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar7Name'} = 'Calendar Name 7';</code>

2.26.2. TimeZone::Calendar7

Description:	Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.
Group:	Framework
SubGroup:	Core::Time::Calendar7
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar7'} = '0';</code>

2.26.3. TimeVacationDays::Calendar7

Description:	Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar7
Valid:	1
Required:	1

Config-Setting:	<pre>\$Self->{'TimeVacationDays::Calendar7'} = { '1' => { '1' => 'New Year\'s Day' }, '12' => { '24' => 'Christmas Eve', '25' => 'First Christmas Day', '26' => 'Second Christmas Day', '31' => 'New Year\'s Eve' }, '5' => { '1' => 'International Workers\' Day' } };</pre>
-----------------	---

2.26.4. TimeVacationDaysOneTime::Calendar7

Description:	Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar7
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDaysOneTime::Calendar7'} = { '2004' => { '1' => { '1' => 'test' } } };</pre>

2.26.5. TimeWorkingHours::Calendar7

Description:	Defines the hours and week days of the indicated calendar, to count the working time.
Group:	Framework
SubGroup:	Core::Time::Calendar7
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeWorkingHours::Calendar7'} = { 'Fri' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Mon' => ['8', '9', '10', '11', </pre>

```

'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
],
'Sat' => [],
'Sun' => [],
'Thu' => [
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
],
'Tue' => [
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
],
'Wed' => [
'8',
'9',
'10',
'11',
'12',
'13',
'14',
'15',
'16',
'17',
'18',
'19',
'20'
]
];

```

2.27. Core::Time::Calendar8

2.27.1. TimeZone::Calendar8Name

Description:	Defines the name of the indicated calendar.
Group:	Framework
SubGroup:	Core::Time::Calendar8
Valid:	1

Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar8Name'} = 'Calendar Name 8';</code>

2.27.2. TimeZone::Calendar8

Description:	Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.
Group:	Framework
SubGroup:	Core::Time::Calendar8
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar8'} = '0';</code>

2.27.3. TimeVacationDays::Calendar8

Description:	Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar8
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDays::Calendar8'} = { '1' => { '1' => 'New Year\'s Day' }, '12' => { '24' => 'Christmas Eve', '25' => 'First Christmas Day', '26' => 'Second Christmas Day', '31' => 'New Year\'s Eve' }, '5' => { '1' => 'International Workers\' Day' } };</pre>

2.27.4. TimeVacationDaysOneTime::Calendar8

Description:	Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar8
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDaysOneTime::Calendar8'} = { '2004' => { '1' => { '1' => 'test' } } };</pre>

2.27.5. TimeWorkingHours::Calendar8

Description:	Defines the hours and week days of the indicated calendar, to count the working time.
Group:	Framework
SubGroup:	Core::Time::Calendar8
Valid:	1
Required:	1
Config-Setting:	<pre> \$self->{'TimeWorkingHours::Calendar8'} = { 'Fri' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Mon' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Sat' => [], 'Sun' => [], 'Thu' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Tue' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18',] } </pre>

```

    '19',
    '20'
  ],
  'Wed' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ]
};

```

2.28. Core::Time::Calendar9

2.28.1. TimeZone::Calendar9Name

Description:	Defines the name of the indicated calendar.
Group:	Framework
SubGroup:	Core::Time::Calendar9
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar9Name'} = 'Calendar Name 9';</code>

2.28.2. TimeZone::Calendar9

Description:	Defines the time zone of the indicated calendar, which can be assigned later to a specific queue.
Group:	Framework
SubGroup:	Core::Time::Calendar9
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar9'} = '0';</code>

2.28.3. TimeVacationDays::Calendar9

Description:	Adds the permanent vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar9
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TimeVacationDays::Calendar9'} = { '1' => { '1' => 'New Year\'s Day' }, '12' => { '24' => 'Christmas Eve', </code>

	<pre>'25' => 'First Christmas Day', '26' => 'Second Christmas Day', '31' => 'New Year\'s Eve' }, '5' => { '1' => 'International Workers\' Day' } };</pre>
--	--

2.28.4. TimeVacationDaysOneTime::Calendar9

Description:	Adds the one time vacation days for the indicated calendar. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar9
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDaysOneTime::Calendar9'} = { '2004' => { '1' => { '1' => 'test' } } };</pre>

2.28.5. TimeWorkingHours::Calendar9

Description:	Defines the hours and week days of the indicated calendar, to count the working time.
Group:	Framework
SubGroup:	Core::Time::Calendar9
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeWorkingHours::Calendar9'} = { 'Fri' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Mon' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', </pre>

```

    '20'
  ],
  'Sat' => [],
  'Sun' => [],
  'Thu' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ],
  'Tue' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ],
  'Wed' => [
    '8',
    '9',
    '10',
    '11',
    '12',
    '13',
    '14',
    '15',
    '16',
    '17',
    '18',
    '19',
    '20'
  ]
]
};

```

2.29. Core::Web

2.29.1. Frontend::WebPath

Description:	Defines the URL base path of icons, CSS and Java Script.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Frontend::WebPath'} = '/otrs-web/';</code>

2.29.2. Frontend::ImagePath

Description:	Defines the URL image path of icons for navigation.
--------------	---

Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Frontend::ImagePath'} = '<OTRS_CONFIG_Frontend::WebPath>skins/Agent/default/img/';</code>

2.29.3. Frontend::CSSPath

Description:	Defines the URL CSS path.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Frontend::CSSPath'} = '<OTRS_CONFIG_Frontend::WebPath>css/';</code>

2.29.4. Frontend::JavaScriptPath

Description:	Defines the URL java script path.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Frontend::JavaScriptPath'} = '<OTRS_CONFIG_Frontend::WebPath>js/';</code>

2.29.5. Frontend::RichText

Description:	Uses richtext for viewing and editing: articles, salutations, signatures, standard templates, auto responses and notifications.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Frontend::RichText'} = '1';</code>

2.29.6. Frontend::RichTextPath

Description:	Defines the URL rich text editor path.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Frontend::RichTextPath'} = '<OTRS_CONFIG_Frontend::WebPath>js/thirdparty/ckeditor-4.4.5/';</code>

2.29.7. Frontend::RichTextWidth

Description:	Defines the width for the rich text editor component. Enter number (pixels) or percent value (relative).
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Frontend::RichTextWidth'} = '620';</code>

2.29.8. Frontend::RichTextHeight

Description:	Defines the height for the rich text editor component. Enter number (pixels) or percent value (relative).
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Frontend::RichTextHeight'} = '320';</code>

2.29.9. Frontend::RichText::DefaultCSS

Description:	Defines the default CSS used in rich text editors.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Frontend::RichText::DefaultCSS'} = 'font-family:Geneva,Helvetica,Arial,sans-serif; font-size: 12px;';</code>

2.29.10. Frontend::RichText::EnhancedMode

Description:	Defines if the enhanced mode should be used (enables use of table, replace, subscript, superscript, paste from word, etc.).
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Frontend::RichText::EnhancedMode'} = '0';</code>

2.29.11. DisableMSIFrameSecurityRestricted

Description:	Disable restricted security for IFrames in IE. May be required for SSO to work in IE8.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	0

Config-Setting:	<code>\$Self->{'DisableMSIFrameSecurityRestricted'} = '0';</code>
-----------------	--

2.29.12. DisableContentSecurityPolicy

Description:	Disable HTTP header "Content-Security-Policy" to allow loading of external script contents. Disabling this HTTP header can be a security issue! Only disable it, if you know what you are doing!
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'DisableContentSecurityPolicy'} = '0';</code>

2.29.13. DefaultViewNewLine

Description:	Automated line break in text messages after x number of chars.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'DefaultViewNewLine'} = '90';</code>

2.29.14. DefaultViewLines

Description:	Sets the number of lines that are displayed in text messages (e.g. ticket lines in the QueueZoom).
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'DefaultViewLines'} = '6000';</code>

2.29.15. Frontend::AnimationEnabled

Description:	Turns on the animations used in the GUI. If you have problems with these animations (e.g. performance issues), you can turn them off here.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Frontend::AnimationEnabled'} = '1';</code>

2.29.16. AttachmentDownloadType

Description:	Allows choosing between showing the attachments of a ticket in the browser (inline) or just make them downloadable (attachment).
--------------	--

Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'AttachmentDownloadType'} = 'attachment';</code>

2.29.17. WebMaxFileUpload

Description:	Defines the maximal size (in bytes) for file uploads via the browser. Warning: Setting this option to a value which is too low could cause many masks in your OTRS instance to stop working (probably any mask which takes input from the user).
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'WebMaxFileUpload'} = '24000000';</code>

2.29.18. WebUploadCacheModule

Description:	Selects the module to handle uploads via the web interface. "DB" stores all uploads in the database, "FS" uses the file system.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'WebUploadCacheModule'} = 'Kernel::System::Web::UploadCache::DB';</code>

2.29.19. Frontend::Output::FilterText###AAAURL

Description:	Defines the filter that processes the text in the articles, in order to highlight URLs.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Frontend::Output::FilterText'}->{'AAAURL'} = { 'Module' => 'Kernel::Output::HTML::OutputFilterTextURL', 'Templates' => { 'AgentTicketZoom' => '1' } };</code>

2.29.20. Frontend::Themes

Description:	Activates the available themes on the system. Value 1 means active, 0 means inactive.
Group:	Framework
SubGroup:	Core::Web

Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Themes'} = { 'Lite' => '0', 'Standard' => '1' };</pre>

2.29.21. Frontend::Output::FilterText###OutputFilterTextAutoLink

Description:	Defines a filter to process the text in the articles, in order to highlight predefined keywords.
Group:	Framework
SubGroup:	Core::Web
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Output::FilterText'}->{'OutputFilterTextAutoLink'} = { 'Module' => 'Kernel::Output::HTML::OutputFilterTextAutoLink', 'Templates' => { 'AgentTicketZoom' => '1' } };</pre>

2.29.22. Frontend::Output::OutputFilterTextAutoLink###CVE

Description:	Defines a filter for html output to add links behind CVE numbers. The element Image allows two input kinds. At once the name of an image (e.g. faq.png). In this case the OTRS image path will be used. The second possibility is to insert the link to the image.
Group:	Framework
SubGroup:	Core::Web
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Output::OutputFilterTextAutoLink'}->{'CVE'} = { 'RegExp' => ['(CVE CAN)\{3,4}\{2,}'], 'Templates' => { 'AgentTicketZoom' => '1' }, 'URL1' => { 'Description' => 'Mitre', 'Image' => 'http://cve.mitre.org/favicon.ico', 'Target' => '_blank', 'URL' => 'http://cve.mitre.org/cgi-bin/cvename.cgi?name=<MATCH1>-<MATCH2>-<MATCH3>' }, 'URL2' => { 'Description' => 'Google', 'Image' => 'http://www.google.de/favicon.ico', 'Target' => '_blank', 'URL' => 'http://google.com/search?q=<MATCH1>-<MATCH2>-<MATCH3>' }, 'URL3' => { 'Description' => 'US-CERT NVD', 'Image' => 'http://nvd.nist.gov/favicon.ico', } };</pre>

	<pre>'Target' => '_blank', 'URL' => 'http://nvd.nist.gov/nvd.cfm?cvename=<MATCH1>-<MATCH2>-<MATCH3>' } };</pre>
--	---

2.29.23. Frontend::Output::OutputFilterTextAutoLink###Bugtraq

Description:	Defines a filter for html output to add links behind bugtraq numbers. The element Image allows two input kinds. At once the name of an image (e.g. faq.png). In this case the OTRS image path will be used. The second possibility is to insert the link to the image.
Group:	Framework
SubGroup:	Core::Web
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Output::OutputFilterTextAutoLink'}->{'Bugtraq'} = { 'RegExp' => ['Bugtraq[\\s\\w\\t]*?ID[\\s\\w\\t]*?:[\\s\\w\\t]*?(\\d{2,8})', 'Bugtraq[\\s\\w\\t]*?ID[\\s\\w\\t]*?(\\d{2,8})', 'Bugtraq[\\s\\w\\t]*?:[\\s\\w\\t]*?(\\d{2,8})', 'Bugtraq[\\s\\w\\t]*?(\\d{2,8})', 'BID[\\s\\w\\t]*?:[\\s\\w\\t]*?(\\d{2,8})', 'BID[\\s\\w\\t]*?(\\d{2,8})'], 'Templates' => { 'AgentTicketZoom' => '1' }, 'URL1' => { 'Description' => 'Security Focus', 'Image' => 'http://www.securityfocus.com/favicon.ico', 'Target' => '_blank', 'URL' => 'http://www.securityfocus.com/bid/<MATCH1>/info' }, 'URL2' => { 'Description' => 'Google', 'Image' => 'http://www.google.de/favicon.ico', 'Target' => '_blank', 'URL' => 'http://google.com/search?q=<MATCH>' } } };</pre>

2.29.24. Frontend::Output::OutputFilterTextAutoLink###MSBulletins

Description:	Defines a filter for html output to add links behind MSBulletin numbers. The element Image allows two input kinds. At once the name of an image (e.g. faq.png). In this case the OTRS image path will be used. The second possibility is to insert the link to the image.
Group:	Framework
SubGroup:	Core::Web
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Output::OutputFilterTextAutoLink'}->{'MSBulletins'} = { 'RegExp' => ['MS[^A-Za-z]{0,5}(\\d\\d)?.?(\\d{2,4})'], }</pre>

```
'Templates' => {
  'AgentTicketZoom' => '1'
},
'URL1' => {
  'Description' => 'Microsoft Technet',
  'Image' => 'http://www.microsoft.com/favicon.ico',
  'Target' => '_blank',
  'URL' => 'http://www.microsoft.com/technet/security/bulletin/
MS<MATCH1>-<MATCH2>.mspx'
},
'URL2' => {
  'Description' => 'Google',
  'Image' => 'http://www.google.de/favicon.ico',
  'Target' => '_blank',
  'URL' => 'http://google.com/search?q=MS<MATCH1>-<MATCH2>'
}
};
```

2.29.25. Frontend::Output::OutputFilterTextAutoLink###Setting1

Description:	Define a filter for html output to add links behind a defined string. The element Image allows two input kinds. At once the name of an image (e.g. faq.png). In this case the OTRS image path will be used. The second possibility is to insert the link to the image.
Group:	Framework
SubGroup:	Core::Web
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Output::OutputFilterTextAutoLink'}->{'Setting1'} = { 'RegExp' => ['RegExp'], 'Templates' => { 'AgentTicketZoom' => '1' }, 'URL1' => { 'Description' => 'Description', 'Image' => 'right-small.png', 'Target' => '_blank', 'URL' => 'URL' }, 'URL2' => { 'Description' => 'Description', 'Image' => 'Image', 'Target' => '_blank', 'URL' => 'URL' } };</pre>

2.29.26. Frontend::Output::OutputFilterTextAutoLink###Setting2

Description:	Defines a filter for html output to add links behind a defined string. The element Image allows two input kinds. At once the name of an image (e.g. faq.png). In this case the OTRS image path will be used. The second possibility is to insert the link to the image.
Group:	Framework
SubGroup:	Core::Web
Valid:	0

Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Output::OutputFilterTextAutoLink'}->{'Setting2'} = { 'RegExp' => ['RegExp'], 'Templates' => { 'AgentTicketZoom' => '1' }, 'URL1' => { 'Description' => 'Description', 'Image' => 'right-small.png', 'Target' => '_blank', 'URL' => 'URL' }, 'URL2' => { 'Description' => 'Description', 'Image' => 'Image', 'Target' => '_blank', 'URL' => 'URL' }, 'URL3' => { 'Description' => 'Description', 'Image' => 'Image', 'Target' => '_blank', 'URL' => 'URL' } }; </pre>

2.29.27. Loader::Enabled::CSS

Description:	If enabled, OTRS will deliver all CSS files in minified form. WARNING: If you turn this off, there will likely be problems in IE 7, because it cannot load more than 32 CSS files.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Loader::Enabled::CSS'} = '1';</code>

2.29.28. Loader::Enabled::JS

Description:	If enabled, OTRS will deliver all JavaScript files in minified form.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Loader::Enabled::JS'} = '1';</code>

2.29.29. Loader::Agent::CommonCSS###000-Framework

Description:	List of CSS files to always be loaded for the agent interface.
Group:	Framework
SubGroup:	Core::Web
Valid:	1

Required:	1
Config-Setting:	<pre>\$Self->{'Loader::Agent::CommonCSS'}->{'000-Framework'} = ['Core.Reset.css', 'Core.Default.css', 'Core.Header.css', 'Core.OverviewControl.css', 'Core.OverviewSmall.css', 'Core.OverviewMedium.css', 'Core.OverviewLarge.css', 'Core.Footer.css', 'Core.PageLayout.css', 'Core.Form.css', 'Core.Table.css', 'Core.Widget.css', 'Core.WidgetMenu.css', 'Core.TicketDetail.css', 'Core.Tooltip.css', 'Core.Dialog.css', 'Core.Print.css', 'thirdparty/fontawesome/font-awesome.css'];</pre>

2.29.30. Loader::Agent::CommonCSS::IE8###000-Framework

Description:	List of IE8-specific CSS files to always be loaded for the agent interface.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Loader::Agent::CommonCSS::IE8'}->{'000-Framework'} = ['Core.OverviewSmall.IE8.css'];</pre>

2.29.31. Loader::Agent::CommonJS###000-Framework

Description:	List of JS files to always be loaded for the agent interface.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Loader::Agent::CommonJS'}->{'000-Framework'} = ['thirdparty/jquery-1.10.0/jquery.js', 'thirdparty/jquery-browser-detection/jquery-browser-detection.js', 'thirdparty/jquery-ui-1.10.3/jquery-ui.js', 'thirdparty/jquery-validate-1.11.1/jquery.validate.js', 'thirdparty/stacktrace-0.4/stacktrace.js', 'thirdparty/jquery-pubsub/pubsub.js', 'thirdparty/jquery-jstree-v.pre1.0/jquery.jstree.js', 'thirdparty/jquery-jstree-v.pre1.0/_lib/jquery.hotkeys.js', 'Core.JavaScriptEnhancements.js', 'Core.Debug.js', 'Core.Data.js', 'Core.Config.js', 'Core.Exception.js', 'Core.JSON.js', 'Core.App.js', 'Core.AJAX.js', 'Core.UI.js',];</pre>

	<pre>'Core.UI.Accordion.js', 'Core.UI.Datepicker.js', 'Core.UI.Resizable.js', 'Core.UI.Table.js', 'Core.UI.Accessibility.js', 'Core.UI.RichTextEditor.js', 'Core.UI.Dialog.js', 'Core.UI.ActionRow.js', 'Core.UI.Popup.js', 'Core.UI.TreeSelection.js', 'Core.UI.Autocomplete.js', 'Core.Form.js', 'Core.Form.ErrorTooltips.js', 'Core.Form.Validate.js', 'Core.Agent.js', 'Core.Agent.Search.js', 'Core.Agent.CustomerInformationCenterSearch.js'];</pre>
--	---

2.29.32. Loader::Agent::CommonJS###001-JQueryMigrate

Description:	List of JS files to always be loaded for the agent interface.
Group:	Framework
SubGroup:	Core::Web
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Loader::Agent::CommonJS'}->{'001-JQueryMigrate'} = ['thirdparty/jquery-migrate-1.2.1/jquery-migrate.js'];</pre>

2.29.33. Loader::Customer::Common-CSS###000-Framework

Description:	List of CSS files to always be loaded for the customer interface.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Loader::Customer::CommonCSS'}->{'000-Framework'} = ['Core.Reset.css', 'Core.Default.css', 'Core.Form.css', 'Core.Dialog.css', 'Core.Tooltip.css', 'Core.Login.css', 'Core.Control.css', 'Core.Table.css', 'Core.TicketZoom.css', 'Core.Print.css', 'thirdparty/fontawesome/font-awesome.css'];</pre>

2.29.34. Loader::Customer::Common-CSS::IE8###000-Framework

Description:	List of IE8-specific CSS files to always be loaded for the customer interface.
--------------	--

Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Loader::Customer::CommonCSS::IE8'}->{'000-Framework'} = [];</code>

2.29.35. Loader::Customer::CommonJS###000-Framework

Description:	List of JS files to always be loaded for the customer interface.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Loader::Customer::CommonJS'}->{'000-Framework'} = ['thirdparty/jquery-1.10.0/jquery.js', 'thirdparty/jquery-browser-detection/jquery-browser-detection.js', 'thirdparty/jquery-validate-1.11.1/jquery.validate.js', 'thirdparty/jquery-ui-1.10.3/jquery-ui.js', 'thirdparty/stacktrace-0.4/stacktrace.js', 'thirdparty/jquery-pubsub/pubsub.js', 'thirdparty/jquery-jstree-v.pre1.0/jquery.jstree.js', 'thirdparty/jquery-jstree-v.pre1.0/_lib/jquery.hotkeys.js', 'Core.Debug.js', 'Core.Data.js', 'Core.Exception.js', 'Core.JSON.js', 'Core.JavaScriptEnhancements.js', 'Core.Config.js', 'Core.App.js', 'Core.AJAX.js', 'Core.UI.js', 'Core.UI.Accessibility.js', 'Core.UI.Dialog.js', 'Core.UI.RichTextEditor.js', 'Core.UI.Datepicker.js', 'Core.UI.Popup.js', 'Core.UI.TreeSelection.js', 'Core.UI.Autocomplete.js', 'Core.Form.js', 'Core.Form.ErrorTooltips.js', 'Core.Form.Validate.js', 'Core.Customer.js'];</code>

2.29.36. Loader::Customer::CommonJS###001-JQueryMigrate

Description:	List of JS files to always be loaded for the agent interface.
Group:	Framework
SubGroup:	Core::Web
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Loader::Customer::CommonJS'}->{'001-JQueryMigrate'} = ['thirdparty/jquery-migrate-1.2.1/jquery-migrate.js'];</code>

2.29.37. Loader::Agent::DefaultSelectedSkin

Description:	The agent skin's InternalName which should be used in the agent interface. Please check the available skins in Frontend::Agent::Skins.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Loader::Agent::DefaultSelectedSkin'} = 'default';</code>

2.29.38. Loader::Customer::SelectedSkin::HostBased

Description:	It is possible to configure different skins, for example to distinguish between different customers, to be used on a per-domain basis within the application. Using a regular expression (regex), you can configure a Key/Content pair to match a domain. The value in "Key" should match the domain, and the value in "Content" should be a valid skin on your system. Please see the example entries for the proper form of the regex.
Group:	Framework
SubGroup:	Core::Web
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Loader::Customer::SelectedSkin::HostBased'} = { 'host1\\.example\\.com' => 'Someskin1', 'host2\\.example\\.com' => 'Someskin2' };</code>

2.30. Core::WebUserAgent

2.30.1. WebUserAgent::Timeout

Description:	Sets the timeout (in seconds) for http/ftp downloads.
Group:	Framework
SubGroup:	Core::WebUserAgent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'WebUserAgent::Timeout'} = '15';</code>

2.30.2. WebUserAgent::Proxy

Description:	Defines the connections for http/ftp, via a proxy.
Group:	Framework
SubGroup:	Core::WebUserAgent
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'WebUserAgent::Proxy'} = 'http://proxy.sn.no:8001/';</code>

2.30.3. WebUserAgent::DisableSSLVerification

Description:	Turns off SSL certificate validation, for example if you use a transparent HTTPS proxy. Use at your own risk!
Group:	Framework
SubGroup:	Core::WebUserAgent
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'WebUserAgent::DisableSSLVerification'} = '0';</code>

2.31. Crypt::PGP

2.31.1. PGP

Description:	Enables PGP support. When PGP support is enabled for signing and encrypting mail, it is HIGHLY recommended that the web server runs as the OTRS user. Otherwise, there will be problems with the privileges when accessing .gnupg folder.
Group:	Framework
SubGroup:	Crypt::PGP
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PGP'} = '0';</code>

2.31.2. PGP::Bin

Description:	Defines the path to PGP binary.
Group:	Framework
SubGroup:	Crypt::PGP
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PGP::Bin'} = '/usr/bin/gpg';</code>

2.31.3. PGP::Options

Description:	Sets the options for PGP binary.
Group:	Framework
SubGroup:	Crypt::PGP
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PGP::Options'} = '--homedir /opt/otrs/.gnupg/ --batch --no-tty --yes';</code>

2.31.4. PGP::Key::Password

Description:	Sets the password for private PGP key.
Group:	Framework

SubGroup:	Crypt::PGP
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'PGP::Key::Password'} = { '488A0B8F' => 'SomePassword', 'D2DF79FA' => 'SomePassword' };</pre>

2.31.5. PGP::TrustedNetwork

Description:	Set this to yes if you trust in all your public and private pgp keys, even if they are not certified with a trusted signature.
Group:	Framework
SubGroup:	Crypt::PGP
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'PGP::TrustedNetwork'} = '0';</pre>

2.31.6. PGP::Log

Description:	Configure your own log text for PGP.
Group:	Framework
SubGroup:	Crypt::PGP
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'PGP::Log'} = { 'BADSIG' => 'The PGP signature with the keyid has not been verified successfully.', 'ERRSIG' => 'It was not possible to check the PGP signature, this may be caused by a missing public key or an unsupported algorithm.', 'EXPKEYSIG' => 'The PGP signature was made by an expired key.', 'GOODSIG' => 'Good PGP signature.', 'KEYREVOKED' => 'The PGP signature was made by a revoked key, this could mean that the signature is forged.', 'NODATA' => 'No valid OpenPGP data found.', 'NO_PUBKEY' => 'No public key found.', 'REVKEYSIG' => 'The PGP signature was made by a revoked key, this could mean that the signature is forged.', 'SIG_EXPIRED' => 'The PGP signature is expired.', 'SIG_ID' => 'Signature data.', 'TRUST_UNDEFINED' => 'This key is not certified with a trusted signature!.', 'VALIDSIG' => 'The PGP signature with the keyid is good.' };</pre>

2.31.7. PGP::StoreDecryptedData

Description:	If this option is enabled, then the decrypted data will be stored in the database if they are displayed in AgentTicketZoom.
Group:	Framework
SubGroup:	Crypt::PGP
Valid:	1
Required:	1

Config-Setting:	<code>\$Self->{'PGP::StoreDecryptedData'} = '1';</code>
-----------------	--

2.32. Crypt::SMIME

2.32.1. SMIME

Description:	Enables S/MIME support.
Group:	Framework
SubGroup:	Crypt::SMIME
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SMIME'} = '0';</code>

2.32.2. SMIME::Bin

Description:	Defines the path to open ssl binary. It may need a HOME env (<code>\$ENV{HOME} = '/var/lib/wwwrun';</code>).
Group:	Framework
SubGroup:	Crypt::SMIME
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SMIME::Bin'} = '/usr/bin/openssl';</code>

2.32.3. SMIME::CertPath

Description:	Specifies the directory where SSL certificates are stored.
Group:	Framework
SubGroup:	Crypt::SMIME
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SMIME::CertPath'} = '/etc/ssl/certs';</code>

2.32.4. SMIME::PrivatePath

Description:	Specifies the directory where private SSL certificates are stored.
Group:	Framework
SubGroup:	Crypt::SMIME
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SMIME::PrivatePath'} = '/etc/ssl/private';</code>

2.32.5. SMIME::CacheTTL

Description:	Cache time in seconds for the SSL certificate attributes.
Group:	Framework
SubGroup:	Crypt::SMIME
Valid:	1

Required:	1
Config-Setting:	<code>\$Self->{'SMIME::CacheTTL'} = '86400';</code>

2.32.6. SMIME::StoreDecryptedData

Description:	If this option is enabled, then the decrypted data will be stored in the database if they are displayed in AgentTicketZoom.
Group:	Framework
SubGroup:	Crypt::SMIME
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SMIME::StoreDecryptedData'} = '1';</code>

2.33. CustomerInformationCenter

2.33.1. AgentCustomerInformationCenter::MainMenu###010-EditCustomerID

Description:	Main menu registration.
Group:	Framework
SubGroup:	CustomerInformationCenter
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'AgentCustomerInformationCenter::MainMenu'}->{'010-EditCustomerID'} = { 'Link' => '\$Env{"Baselink"}Action=AdminCustomerCompany;Subaction=Change;CustomerID=\$LQData{"CustomerID"};Nav=0', 'Name' => 'Edit customer company' };</code>

2.34. Frontend::Admin

2.34.1. Events###Package

Description:	List of all Package events to be displayed in the GUI.
Group:	Framework
SubGroup:	Frontend::Admin
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Events'}->{'Package'} = ['PackageInstall', 'PackageReinstall', 'PackageUpgrade', 'PackageUninstall'];</code>

2.34.2. Events###CustomerUser

Description:	List of all CustomerUser events to be displayed in the GUI.
Group:	Framework

SubGroup:	Frontend::Admin
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Events'}->{'CustomerUser'} = ['CustomerUserAdd', 'CustomerUserUpdate'];</pre>

2.34.3. Events###CustomerCompany

Description:	List of all CustomerCompany events to be displayed in the GUI.
Group:	Framework
SubGroup:	Frontend::Admin
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Events'}->{'CustomerCompany'} = ['CustomerCompanyAdd', 'CustomerCompanyUpdate'];</pre>

2.35. Frontend::Admin::AdminCustomerUser

2.35.1. AdminCustomerUser::RunInitialWildcardSearch

Description:	Runs an initial wildcard search of the existing customer users when accessing the AdminCustomerUser module.
Group:	Framework
SubGroup:	Frontend::Admin::AdminCustomerUser
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'AdminCustomerUser::RunInitialWildcardSearch'} = '1';</pre>

2.36. Frontend::Admin::AdminSelectBox

2.36.1. AdminSelectBox::AllowDatabaseModification

Description:	Controls if the admin is allowed to make changes to the database via AdminSelectBox.
Group:	Framework
SubGroup:	Frontend::Admin::AdminSelectBox
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'AdminSelectBox::AllowDatabaseModification'} = '0';</pre>

2.37. Frontend::Admin::ModuleRegistration

2.37.1. Frontend::Module###Admin

Description:	Frontend module registration for the agent interface.
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Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'Admin'} = { 'Description' => 'Admin-Area', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.css'], 'JavaScript' => ['Core.Agent.Admin.SysConfig.js'] }, 'NavBar' => [{ 'AccessKey' => 'a', 'Block' => 'ItemArea', 'Description' => '', 'Link' => 'Action=Admin', 'LinkOption' => '', 'Name' => 'Admin', 'NavBar' => 'Admin', 'Prio' => '10000', 'Type' => 'Menu' }], 'NavBarModule' => { 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin' }, 'NavBarName' => 'Admin', 'Title' => '' }; </pre>

2.37.2. Frontend::Module###AdminInit

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminInit'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarName' => '', 'Title' => 'Init' }; </pre>

2.37.3. Frontend::Module###AdminUser

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0

Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminUser'} = { 'Description' => 'Create and manage agents.', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Agent', 'Description' => 'Create and manage agents.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Agents', 'Prio' => '100' }, 'NavBarName' => 'Admin', 'Title' => 'Agents' }; </pre>
-----------------	--

2.37.4. Frontend::Module###AdminGroup

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminGroup'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Agent', 'Description' => 'Create and manage groups.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Groups', 'Prio' => '150' }, 'NavBarName' => 'Admin', 'Title' => 'Groups' }; </pre>

2.37.5. Frontend::Module###AdminUserGroup

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminUserGroup'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Agent', 'Description' => 'Link agents to groups.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Agents <-> Groups', 'Prio' => '200' }, 'NavBarName' => 'Admin', 'Title' => 'Agents <-> Groups' }; </pre>

2.37.6. Frontend::Module###AdminCustomerUser

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminCustomerUser'} = { 'Description' => 'Edit Customer Users', 'Group' => ['admin', 'users'], 'GroupRo' => [''], 'Loader' => { 'JavaScript' => ['Core.Agent.TicketAction.js'] }, 'NavBar' => [{ 'AccessKey' => '', 'Block' => 'ItemArea', 'Description' => 'Customer User Administration.', 'Link' => 'Action=AdminCustomerUser;Nav=Agent', 'LinkOption' => '', 'Name' => 'Customer User Administration', 'NavBar' => 'Customers', 'Prio' => '9000', 'Type' => '' }], 'NavBarModule' => { 'Block' => 'Customer', 'Description' => 'Create and manage customer users.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Customer User', 'Prio' => '300' }, 'NavBarName' => 'Customers', 'Title' => 'Customer Users' }; </pre>

2.37.7. Frontend::Module###AdminCustomerCompany

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminCustomerCompany'} = { 'Description' => 'Admin', 'Group' => ['admin', 'users'], 'GroupRo' => [''], 'NavBar' => [{ </pre>

	<pre> 'AccessKey' => '', 'Block' => 'ItemArea', 'Description' => 'Customer Company Administration.', 'Link' => 'Action=AdminCustomerCompany;Nav=Agent', 'LinkOption' => '', 'Name' => 'Customer Company Administration', 'NavBar' => 'Customers', 'Prio' => '9100', 'Type' => '' }], 'NavBarModule' => { 'Block' => 'Customer', 'Description' => 'Create and manage customers.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Customers', 'Prio' => '310' }, 'NavBarName' => 'Admin', 'Title' => 'Customer Companies' }; </pre>
--	--

2.37.8. Frontend::Module###AdminCustomerUserGroup

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'Frontend::Module'}->{'AdminCustomerUserGroup'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Customer', 'Description' => 'Link customer user to groups.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Customer User <-> Groups', 'Prio' => '400' }, 'NavBarName' => 'Admin', 'Title' => 'Customers <-> Groups' }; </pre>

2.37.9. Frontend::Module###AdminCustomerUserService

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'Frontend::Module'}->{'AdminCustomerUserService'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Customer', </pre>

	<pre>'Description' => 'Link customer user to services.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Customer User <-> Services', 'Prio' => '500' }, 'NavBarName' => 'Admin', 'Title' => 'Customer User <-> Services' };</pre>
--	--

2.37.10. Frontend::Module###AdminRole

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminRole'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Agent', 'Description' => 'Create and manage roles.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Roles', 'Prio' => '600' }, 'NavBarName' => 'Admin', 'Title' => 'Roles' };</pre>

2.37.11. Frontend::Module###AdminRoleUser

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminRoleUser'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Agent', 'Description' => 'Link agents to roles.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Agents <-> Roles', 'Prio' => '700' }, 'NavBarName' => 'Admin', 'Title' => 'Agents <-> Roles' };</pre>

2.37.12. Frontend::Module###AdminRoleGroup

Description:	Frontend module registration for the agent interface.
Group:	Framework

SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminRoleGroup'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Agent', 'Description' => 'Link roles to groups.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Roles <-> Groups', 'Prio' => '800' }, 'NavBarName' => 'Admin', 'Title' => 'Roles <-> Groups' };</pre>

2.37.13. Frontend::Module###AdminSMIME

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminSMIME'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Email', 'Description' => 'Manage S/MIME certificates for email encryption.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'S/MIME Certificates', 'Prio' => '1100' }, 'NavBarName' => 'Admin', 'Title' => 'S/MIME Management' };</pre>

2.37.14. Frontend::Module###AdminPGP

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminPGP'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Email', 'Description' => 'Manage PGP keys for email encryption.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'PGP Keys', }, };</pre>

```
'Prio' => '1200'
},
'NavBarName' => 'Admin',
'Title' => 'PGP Key Management'
};
```

2.37.15. Frontend::Module###AdminMailAccount

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminMailAccount'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Email', 'Description' => 'Manage POP3 or IMAP accounts to fetch email from.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'PostMaster Mail Accounts', 'Prio' => '100' }, 'NavBarName' => 'Admin', 'Title' => 'Mail Accounts' };</pre>

2.37.16. Frontend::Module###AdminPostMasterFilter

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminPostMasterFilter'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Email', 'Description' => 'Filter incoming emails.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'PostMaster Filters', 'Prio' => '200' }, 'NavBarName' => 'Admin', 'Title' => 'PostMaster Filters' };</pre>

2.37.17. Frontend::Module###AdminEmail

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration

Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminEmail'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'System', 'Description' => 'Send notifications to users.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Admin Notification', 'Prio' => '400' }, 'NavBarName' => 'Admin', 'Title' => 'Admin Notification' };</pre>

2.37.18. Frontend::Module###AdminSession

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminSession'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'System', 'Description' => 'Manage existing sessions.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Session Management', 'Prio' => '500' }, 'NavBarName' => 'Admin', 'Title' => 'Session Management' };</pre>

2.37.19. Frontend::Module###AdminPerformanceLog

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminPerformanceLog'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.PerformanceLog.css'] }, 'NavBarModule' => { 'Block' => 'System',</pre>

	<pre>'Description' => 'View performance benchmark results.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Performance Log', 'Prio' => '550' }, 'NavBarName' => 'Admin', 'Title' => 'Performance Log' };</pre>
--	--

2.37.20. Frontend::Module###AdminRegistration

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminRegistration'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.Registration.css'] }, 'NavBarModule' => { 'Block' => 'System', 'Description' => 'Manage system registration.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'System Registration', 'Prio' => '350' }, 'NavBarName' => 'Admin', 'Title' => 'System Registration' };</pre>

2.37.21. Frontend::Module###AdminServiceCenter

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminServiceCenter'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.ServiceCenter.css'] }, 'NavBarModule' => { 'Block' => 'System', 'Description' => 'Manage OTRS Group services.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Service Center', 'Prio' => '351' }, 'NavBarName' => 'Admin', };</pre>

	<pre>'Title' => 'Service Center' };</pre>
--	--

2.37.22. Frontend::Module###AdminLog

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminLog'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'System', 'Description' => 'View system log messages.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'System Log', 'Prio' => '600' }, 'NavBarName' => 'Admin', 'Title' => 'System Log' };</pre>

2.37.23. Frontend::Module###AdminSelectBox

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminSelectBox'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'System', 'Description' => 'Execute SQL statements.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'SQL Box', 'Prio' => '700' }, 'NavBarName' => 'Admin', 'Title' => 'SQL Box' };</pre>

2.37.24. Frontend::Module###AdminPackageManager

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminPackageManager'} = {</pre>

```
'Description' => 'Software Package Manager',
'Group' => [
  'admin'
],
'NavBarModule' => {
  'Block' => 'System',
  'Description' => 'Update and extend your system with software
packages.',
  'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin',
  'Name' => 'Package Manager',
  'Prio' => '1000'
},
'NavBarName' => 'Admin',
'Title' => 'Package Manager'
};
```

2.38. Frontend::Agent

2.38.1. AgentLogo

Description:	The logo shown in the header of the agent interface. The URL to the image can be a relative URL to the skin image directory, or a full URL to a remote web server.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'AgentLogo'} = { 'StyleHeight' => '67px', 'StyleRight' => '38px', 'StyleTop' => '-4px', 'StyleWidth' => '244px', 'URL' => 'skins/Agent/default/img/logo_bg.png' };</pre>

2.38.2. AgentLoginLogo

Description:	The logo shown on top of the login box of the agent interface. The URL to the image must be relative URL to the skin image directory.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'AgentLoginLogo'} = { 'StyleHeight' => '100px', 'URL' => 'skins/Agent/default/img/loginlogo_default.png' };</pre>

2.38.3. LoginURL

Description:	Defines an alternate URL, where the login link refers to.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	0
Required:	0

Config-Setting:	<code>\$Self->{'LoginURL'} = 'http://host.example.com/login.html';</code>
-----------------	--

2.38.4. LogoutURL

Description:	Defines an alternate URL, where the logout link refers to.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'LogoutURL'} = 'http://host.example.com/thanks-for-using-otrs.html';</code>

2.38.5. PreApplicationModule###AgentInfo

Description:	Defines a useful module to load specific user options or to display news.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'PreApplicationModule'}->{'AgentInfo'} = 'Kernel::Modules::AgentInfo';</code>

2.38.6. InfoKey

Description:	Defines the key to be checked with Kernel::Modules::AgentInfo module. If this user preferences key is true, the message is accepted by the system.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'InfoKey'} = 'wpt22';</code>

2.38.7. InfoFile

Description:	File that is displayed in the Kernel::Modules::AgentInfo module, if located under Kernel/Output/HTML/Standard/AgentInfo.dtl.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'InfoFile'} = 'AgentInfo';</code>

2.38.8. LostPassword

Description:	Activates lost password feature for agents, in the agent interface.
--------------	---

Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'LostPassword'} = '1';</code>

2.38.9. ShowMotd

Description:	Shows the message of the day on login screen of the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'ShowMotd'} = '0';</code>

2.38.10. NotificationSubjectLostPasswordToken

Description:	Defines the subject for notification mails sent to agents, with token about new requested password.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'NotificationSubjectLostPasswordToken'} = 'New OTRS password request';</code>

2.38.11. NotificationBodyLostPasswordToken

Description:	Defines the body text for notification mails sent to agents, with token about new requested password (after using this link the new password will be sent).
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'NotificationBodyLostPasswordToken'} = 'Hi <OTRS_USERFIRSTNAME>, You or someone impersonating you has requested to change your OTRS password. If you want to do this, click on the link below. You will receive another email containing the password. <OTRS_CONFIG_HttpType>://<OTRS_CONFIG_FQDN>/ <OTRS_CONFIG_ScriptAlias>index.pl? Action=LostPassword;Token=<OTRS_TOKEN> If you did not request a new password, please ignore this email. '; </pre>

2.38.12. NotificationSubjectLostPassword

Description:	Defines the subject for notification mails sent to agents, about new password.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'NotificationSubjectLostPassword'} = 'New OTRS password';</code>

2.38.13. NotificationBodyLostPassword

Description:	Defines the body text for notification mails sent to agents, about new password (after using this link the new password will be sent).
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'NotificationBodyLostPassword'} = 'Hi <OTRS_USERFIRSTNAME>, Here\'s your new OTRS password. New password: <OTRS_NEWPW> You can log in via the following URL: <OTRS_CONFIG_ContentType>://<OTRS_CONFIG_FQDN>/ <OTRS_CONFIG_ScriptAlias>index.pl '; </pre>

2.38.14. OpenMainMenuOnHover

Description:	If enabled, the first level of the main menu opens on mouse hover (instead of click only).
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'OpenMainMenuOnHover'} = '0';</code>

2.38.15. FirstnameLastnameOrder

Description:	Specifies the order in which the firstname and the lastname of agents will be displayed.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	1

Config-Setting:	<code>\$Self->{'FirstnameLastnameOrder'} = '0';</code>
-----------------	---

2.38.16. Loader::Agent::Skin###000-default

Description:	Default skin for the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Loader::Agent::Skin'}->{'000-default'} = { 'Description' => 'This is the default orange - black skin.', 'HomePage' => 'www.otrs.org', 'InternalName' => 'default', 'VisibleName' => 'Default' };</code>

2.38.17. Loader::Agent::Skin###001-slim

Description:	Default skin for the agent interface (slim version).
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Loader::Agent::Skin'}->{'001-slim'} = { 'Description' => "Slim" skin which tries to save screen space for power users., 'HomePage' => 'www.otrs.org', 'InternalName' => 'slim', 'VisibleName' => 'Default (Slim)' };</code>

2.38.18. Loader::Agent::Skin###001-ivory

Description:	Balanced white skin by Felix Niklas.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Loader::Agent::Skin'}->{'001-ivory'} = { 'Description' => 'Balanced white skin by Felix Niklas.', 'HomePage' => 'www.felixniklas.de', 'InternalName' => 'ivory', 'VisibleName' => 'Ivory' };</code>

2.38.19. Loader::Agent::Skin###001-ivory-slim

Description:	Balanced white skin by Felix Niklas (slim version).
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	0

Config-Setting:	<pre>\$Self->{'Loader::Agent::Skin'}->{'001-ivory-slim'} = { 'Description' => 'Balanced white skin by Felix Niklas (slim version).', 'HomePage' => 'www.felixniklas.de', 'InternalName' => 'ivory-slim', 'VisibleName' => 'Ivory (Slim)' };</pre>
-----------------	---

2.38.20. Loader::Agent::DefaultSelectedSkin::Host-Based

Description:	It is possible to configure different skins, for example to distinguish between different agents, to be used on a per-domain basis within the application. Using a regular expression (regex), you can configure a Key/Content pair to match a domain. The value in "Key" should match the domain, and the value in "Content" should be a valid skin on your system. Please see the example entries for the proper form of the regex.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Loader::Agent::DefaultSelectedSkin::HostBased'} = { 'host1\\.example\\.com' => 'SomeSkin1', 'host2\\.example\\.com' => 'SomeSkin2' };</pre>

2.38.21. AutoComplete::Agent###Default

Description:	Defines the config options for the autocompletion feature.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'AutoComplete::Agent'}->{'Default'} = { 'AutoCompleteActive' => '1', 'ButtonText' => 'Search', 'MaxResultsDisplayed' => '20', 'MinQueryLength' => '2', 'QueryDelay' => '100' };</pre>

2.38.22. AutoComplete::Agent###CustomerSearch

Description:	Defines the config options for the autocompletion feature.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'AutoComplete::Agent'}->{'CustomerSearch'} = { 'AutoCompleteActive' => '1', 'ButtonText' => 'Search Customer', 'MaxResultsDisplayed' => '20', 'MinQueryLength' => '2', 'QueryDelay' => '100' };</pre>

```
};
```

2.38.23. AutoComplete::Agent###UserSearch

Description:	Defines the config options for the autocompletion feature.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'AutoComplete::Agent'}->{'UserSearch'} = { 'AutoCompleteActive' => '1', 'ButtonText' => 'Search User', 'MaxResultsDisplayed' => '20', 'MinQueryLength' => '2', 'QueryDelay' => '100' };</pre>

2.38.24. PossibleNextActions

Description:	Defines the list of possible next actions on an error screen.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'PossibleNextActions'} = { 'Go to dashboard!' => '\$Env{"CGIHandle"}?Action=AgentDashboard' };</pre>

2.39. Frontend::Agent::Dashboard

2.39.1. AgentCustomerInformationCenter::Backend###0600-CIC-CustomerCompanyInformation

Description:	Parameters for the dashboard backend of the customer company information of the agent interface . "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin.
Group:	Framework
SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'AgentCustomerInformationCenter::Backend'}->{'0600-CIC-CustomerCompanyInformation'} = { 'Attributes' => '', 'Block' => 'ContentSmall', 'Default' => '1', 'Description' => 'Customer Company Information', 'Group' => '', 'Module' => 'Kernel::Output::HTML::DashboardCustomerCompanyInformation', 'Title' => 'Customer Company Information' };</pre>

2.39.2. DashboardBackend###0000-ProductNotify

Description:	Defines the parameters for the dashboard backend. "Group" is used to restrict access to the plugin (e. g. Group: admin;group1;group2;). "Default" indicates if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" defines the cache expiration period in minutes for the plugin.
Group:	Framework
SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'DashboardBackend'}->{'0000-ProductNotify'} = { 'Block' => 'ContentLarge', 'CacheTTLLocal' => '1440', 'Default' => '1', 'Description' => 'News about OTRS releases!', 'Group' => 'admin', 'Module' => 'Kernel::Output::HTML::DashboardProductNotify', 'Title' => 'Product News', 'URL' => 'http://www.otrs.com/product.xml' }; </pre>

2.39.3. DashboardBackend###0390-UserOutOfOffice

Description:	Defines the parameters for the dashboard backend. "Limit" defines the number of entries displayed by default. "Group" is used to restrict access to the plugin (e. g. Group: admin;group1;group2;). "Default" indicates if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" defines the cache expiration period in minutes for the plugin.
Group:	Framework
SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'DashboardBackend'}->{'0390-UserOutOfOffice'} = { 'Block' => 'ContentSmall', 'CacheTTLLocal' => '5', 'Default' => '1', 'Description' => '', 'Group' => '', 'IdleMinutes' => '60', 'Limit' => '10', 'Module' => 'Kernel::Output::HTML::DashboardUserOutOfOffice', 'SortBy' => 'UserFullname', 'Title' => 'Out Of Office' }; </pre>

2.39.4. DashboardBackend###0400-UserOnline

Description:	Defines the parameters for the dashboard backend. "Limit" defines the number of entries displayed by default. "Group" is used to restrict access to the plugin (e. g. Group: admin;group1;group2;). "Default" indicates if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" defines the cache expiration period in minutes for the plugin.
Group:	Framework

SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'DashboardBackend'}->{'0400-UserOnline'} = { 'Block' => 'ContentSmall', 'CacheTTLLocal' => '5', 'Default' => '0', 'Description' => '', 'Filter' => 'Agent', 'Group' => '', 'IdleMinutes' => '60', 'Limit' => '10', 'Module' => 'Kernel::Output::HTML::DashboardUserOnline', 'ShowEmail' => '0', 'SortBy' => 'UserFullname', 'Title' => 'Online' }; </pre>

2.39.5. DashboardBackend###0410-RSS

Description:	Defines the parameters for the dashboard backend. "Limit" defines the number of entries displayed by default. "Group" is used to restrict access to the plugin (e. g. Group: admin;group1;group2;). "Default" indicates if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTL" indicates the cache expiration period in minutes for the plugin.
Group:	Framework
SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'DashboardBackend'}->{'0410-RSS'} = { 'Block' => 'ContentSmall', 'CacheTTL' => '360', 'Default' => '1', 'Description' => '', 'Group' => '', 'Limit' => '6', 'Module' => 'Kernel::Output::HTML::DashboardRSS', 'Title' => 'OTRS News', 'URL' => 'http://www.otrs.com/en/rss.xml', 'URL_de' => 'http://www.otrs.com/de/rss.xml', 'URL_es' => 'http://www.otrs.com/es/rss.xml', 'URL_nl' => 'http://www.otrs.com/nl/rss.xml', 'URL_ru' => 'http://www.otrs.com/ru/rss.xml', 'URL_zh' => 'http://www.otrs.com/cn/rss.xml' }; </pre>

2.39.6. DashboardBackend###0200-Image

Description:	Defines the parameters for the dashboard backend. "Group" is used to restrict access to the plugin (e. g. Group: admin;group1;group2;). "Default" indicates if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTL" indicates the cache expiration period in minutes for the plugin.
Group:	Framework
SubGroup:	Frontend::Agent::Dashboard
Valid:	0
Required:	0

Config-Setting:	<pre> \$Self->{'DashboardBackend'}->{'0200-Image'} = { 'Block' => 'ContentLarge', 'Default' => '1', 'Description' => 'Some picture description!', 'Group' => '', 'Height' => '140', 'Link' => 'http://otrs.org/', 'LinkTitle' => 'http://otrs.org/', 'Module' => 'Kernel::Output::HTML::DashboardImage', 'Title' => 'A picture', 'URL' => 'http://www.otrs.com/uploads/pics/ jointhecommunity_02.jpg', 'Width' => '198' }; </pre>
-----------------	--

2.39.7. DashboardBackend###0210-MOTD

Description:	Shows the message of the day (MOTD) in the agent dashboard. "Group" is used to restrict access to the plugin (e. g. Group: admin;group1;group2;). "Default" indicates if the plugin is enabled by default or if the user needs to enable it manually.
Group:	Framework
SubGroup:	Frontend::Agent::Dashboard
Valid:	0
Required:	0
Config-Setting:	<pre> \$Self->{'DashboardBackend'}->{'0210-MOTD'} = { 'Block' => 'ContentLarge', 'Default' => '1', 'Group' => '', 'Module' => 'Kernel::Output::HTML::DashboardMOTD', 'Title' => 'Message of the Day' }; </pre>

2.39.8. DashboardBackend###0300-IFrame

Description:	Defines the parameters for the dashboard backend. "Group" is used to restrict access to the plugin (e. g. Group: admin;group1;group2;). "Default" indicates if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTL" indicates the cache expiration period in minutes for the plugin.
Group:	Framework
SubGroup:	Frontend::Agent::Dashboard
Valid:	0
Required:	0
Config-Setting:	<pre> \$Self->{'DashboardBackend'}->{'0300-IFrame'} = { 'Align' => 'left', 'Block' => 'ContentLarge', 'Default' => '1', 'Description' => 'Some description!', 'Frameborder' => '1', 'Group' => '', 'Height' => '800', 'Link' => 'http://otrs.org/', 'LinkTitle' => 'OTRS.org/', 'Marginheight' => '5', 'Marginwidth' => '5', 'Module' => 'Kernel::Output::HTML::DashboardIFrame', 'Scrolling' => 'auto', 'Title' => 'A Website', 'URL' => 'http://www.otrs.org/', 'Width' => '1024' }; </pre>

```
};
```

2.39.9. AgentCustomerInformationCenter::Backend###0050-CIC-CustomerUserList

Description:	Parameters for the dashboard backend of the customer user list overview of the agent interface . "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin.
Group:	Framework
SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'AgentCustomerInformationCenter::Backend'}->{'0050-CIC-CustomerUserList'} = { 'Attributes' => '', 'Block' => 'ContentLarge', 'CacheTTLLocal' => '0.5', 'Default' => '1', 'Description' => 'All customer users of a CustomerID', 'Group' => '', 'Limit' => '10', 'Module' => 'Kernel::Output::HTML::DashboardCustomerUserList', 'Permission' => 'ro', 'Title' => 'Customer Users' };</pre>

2.40. Frontend::Agent::LinkObject

2.40.1. Frontend::AgentLinkObject::WildcardSearch

Description:	Starts a wildcard search of the active object after the link object mask is started.
Group:	Framework
SubGroup:	Frontend::Agent::LinkObject
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Frontend::AgentLinkObject::WildcardSearch'} = '0';</pre>

2.41. Frontend::Agent::ModuleMetaHead

2.41.1. Frontend::HeaderMetaModule###100-Refresh

Description:	Defines the module to generate html refresh headers of html sites.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleMetaHead
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Frontend::HeaderMetaModule'}->{'100-Refresh'} = { 'Module' => 'Kernel::Output::HTML::HeaderMetaRefresh' };</pre>

```
};
```

2.42. Frontend::Agent::ModuleNotify

2.42.1. Frontend::NotifyModule###200-UID-Check

Description:	Defines the module to display a notification in the agent interface, if the system is used by the admin user (normally you shouldn't work as admin).
Group:	Framework
SubGroup:	Frontend::Agent::ModuleNotify
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Frontend::NotifyModule'}->{'200-UID-Check'} = { 'Module' => 'Kernel::Output::HTML::NotificationUIDCheck' };</pre>

2.42.2. Frontend::NotifyModule###300-ShowAgentOnline

Description:	Defines the module that shows all the currently logged in agents in the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleNotify
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::NotifyModule'}->{'300-ShowAgentOnline'} = { 'IdleMinutes' => '60', 'Module' => 'Kernel::Output::HTML::NotificationAgentOnline', 'ShowEmail' => '1' };</pre>

2.42.3. Frontend::NotifyModule###400-ShowCustomerOnline

Description:	Defines the module that shows all the currently logged in customers in the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleNotify
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::NotifyModule'}->{'400-ShowCustomerOnline'} = { 'IdleMinutes' => '60', 'Module' => 'Kernel::Output::HTML::NotificationCustomerOnline', 'ShowEmail' => '1' };</pre>

2.42.4. Frontend::NotifyModule###500-OutofOffice-Check

Description:	Defines the module to display a notification in the agent interface, if the agent is logged in while having out-of-office active.
--------------	---

Group:	Framework
SubGroup:	Frontend::Agent::ModuleNotify
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Frontend::NotifyModule'}->{'500-OutofOffice-Check'} = { 'Module' => 'Kernel::Output::HTML::NotificationOutofOfficeCheck' };</pre>

2.42.5. Frontend::NotifyModule###900-Generic

Description:	Defines the module that shows a generic notification in the agent interface. Either "Text" - if configured - or the contents of "File" will be displayed.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleNotify
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::NotifyModule'}->{'900-Generic'} = { 'File' => '<OTRS_CONFIG_Home>/var/notify.txt', 'Link' => 'http://www.otrs.com', 'Module' => 'Kernel::Output::HTML::NotificationGeneric', 'Priority' => 'Warning', 'Text' => 'The OTRS Website' };</pre>

2.43. Frontend::Agent::ModuleRegistration

2.43.1. Frontend::Module###Logout

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'Logout'} = { 'Description' => 'Logout', 'NavBarName' => '', 'Title' => '' };</pre>

2.43.2. Frontend::Module###AgentDashboard

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentDashboard'} = { 'Description' => 'Agent Dashboard', 'Loader' => { 'CSS' => ['Core.Agent.Dashboard.css',] } };</pre>

```

'Core.AllocationList.css',
'thirdparty/fullcalendar-1.6.1/fullcalendar.css',
'thirdparty/d3js/nv.d3.css'
],
'JavaScript' => [
'thirdparty/flot-0.8.1/excanvas.js',
'thirdparty/flot-0.8.1/jquery.flot.js',
'thirdparty/fullcalendar-1.6.1/fullcalendar.min.js',
'thirdparty/d3js/d3.v3.min.js',
'thirdparty/d3js/nv.d3.min.js',
'thirdparty/d3js/models/OTRSmultiBarChart.js',
'thirdparty/d3js/models/OTRSstackedAreaChart.js',
'Core.UI.Chart.js',
'Core.UI.AdvancedChart.js',
'Core.UI.DnD.js',
'Core.UI.AllocationList.js',
'Core.Agent.TableFilters.js',
'Core.Agent.Dashboard.js'
]
},
'NavBar' => [
{
'AccessKey' => 'd',
'Block' => 'ItemArea',
'Description' => '',
'Link' => 'Action=AgentDashboard',
'LinkOption' => '',
'Name' => 'Dashboard',
'NavBar' => 'Dashboard',
'Prio' => '50',
'Type' => 'Menu'
}
],
'NavBarName' => 'Dashboard',
'Title' => ''
};

```

2.43.3. Frontend::Module###AgentCustomerInformationCenter

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'Frontend::Module'}->{'AgentCustomerInformationCenter'} = { 'Description' => 'Customer Information Center', 'Loader' => { 'CSS' => ['Core.AllocationList.css'] }, 'JavaScript' => ['thirdparty/flot-0.8.1/excanvas.js', 'thirdparty/flot-0.8.1/jquery.flot.js', 'Core.UI.Chart.js', 'Core.UI.DnD.js', 'Core.UI.AllocationList.js', 'Core.Agent.Dashboard.js', 'Core.Agent.TableFilters.js'] }, 'NavBar' => [{ 'AccessKey' => '', 'Block' => 'ItemArea', 'Description' => 'Customer Information Center.', </pre>

```

    'Link' => 'Action=AgentCustomerInformationCenter',
    'LinkOption' => 'onclick="window.setTimeout(function()
{Core.Agent.CustomerInformationCenterSearch.OpenSearchDialog();},
0); return false;"',
    'Name' => 'Customer Information Center',
    'NavBar' => 'Customers',
    'Prio' => '50',
    'Type' => ''
  },
  {
    'AccessKey' => 'c',
    'Block' => 'ItemArea',
    'Description' => 'Customer Information Center.',
    'Link' => 'Action=AgentCustomerInformationCenter',
    'LinkOption' => '',
    'Name' => 'Customers',
    'NavBar' => 'Customers',
    'Prio' => '60',
    'Type' => 'Menu'
  }
],
'NavBarName' => 'Customer Information Center',
'Title' => ''
};

```

2.43.4. Frontend::Module###AgentCustomerInformationCenterSearch

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'Frontend::Module'}-> {'AgentCustomerInformationCenterSearch'} = { 'Description' => 'Customer Information Center Search', 'Title' => '' }; </pre>

2.43.5. Frontend::Module###AgentPreferences

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'Frontend::Module'}->{'AgentPreferences'} = { 'Description' => 'Agent Preferences', 'NavBarName' => 'Preferences', 'Title' => '' }; </pre>

2.43.6. Frontend::Module###PictureUpload

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1

Required:	1
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'PictureUpload'} = { 'Description' => 'Picture upload module', 'NavBarName' => 'Ticket', 'Title' => 'Picture-Upload' };</pre>

2.43.7. Frontend::Module###AgentSpelling

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentSpelling'} = { 'Description' => 'Spell checker', 'Loader' => { 'JavaScript' => ['Core.Agent.TicketAction.js'] }, 'NavBarName' => '', 'Title' => 'Spell Checker' };</pre>

2.43.8. Frontend::Module###SpellingInline

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'SpellingInline'} = { 'Description' => 'Spell checker', 'NavBarName' => '', 'Title' => 'Spell Checker' };</pre>

2.43.9. Frontend::Module###AgentBook

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentBook'} = { 'Description' => 'Address book of CustomerUser sources', 'Loader' => { 'JavaScript' => ['Core.Agent.CustomerSearch.js', 'Core.Agent.TicketAction.js'] }, 'NavBarName' => '', 'Title' => 'Address Book' };</pre>

2.43.10. Frontend::Module###AgentLinkObject

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentLinkObject'} = { 'Description' => 'Link Object', 'NavBarName' => '', 'Title' => 'Link Object' };</pre>

2.43.11. Frontend::Module###AgentInfo

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentInfo'} = { 'Description' => 'Generic Info module', 'NavBarName' => '', 'Title' => 'Info' };</pre>

2.43.12. Frontend::Module###AgentSearch

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentSearch'} = { 'Description' => 'Global Search Module', 'NavBarName' => '', 'Title' => 'Search' };</pre>

2.43.13. CustomerFrontend::Module###SpellingInline

Description:	Frontend module registration for the customer interface.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerFrontend::Module'}->{'SpellingInline'} = { 'Description' => 'Spell checker', 'NavBarName' => '', 'Title' => 'Spell Checker' };</pre>

2.43.14. Frontend::Module###AgentHTMLReference

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AgentHTMLReference'} = { 'Description' => 'HTML Reference', 'Group' => ['users'], 'GroupRo' => ['users'], 'Loader' => { 'CSS' => ['Core.Agent.HTMLReference.css'] }, 'NavBarName' => '', 'Title' => 'HTML Reference' }; </pre>

2.43.15. Frontend::Module###AgentStats

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AgentStats'} = { 'Description' => 'Stats', 'Group' => ['stats'], 'GroupRo' => ['stats'], 'Loader' => { 'JavaScript' => ['Core.Agent.Stats.js'] }, 'NavBar' => [{ 'AccessKey' => '', 'Block' => 'ItemArea', 'Description' => '', 'Link' => 'Action=AgentStats;Subaction=0overview', 'LinkOption' => '', 'Name' => 'Statistics', 'NavBar' => 'Stats', 'Prio' => '8500', 'Type' => 'Menu' }, { 'AccessKey' => '', 'Block' => '', 'Description' => '0overview', 'GroupRo' => ['stats'],]], }; </pre>

```

'Link' => 'Action=AgentStats;Subaction=Overview',
'LinkOption' => '',
'Name' => 'Overview',
'NavBar' => 'Stats',
'Prio' => '100',
'Type' => ''
},
{
'AccessKey' => '',
'Block' => '',
'Description' => 'New',
'Group' => [
  'stats'
],
'Link' => 'Action=AgentStats;Subaction=Add',
'LinkOption' => '',
'Name' => 'New',
'NavBar' => 'Stats',
'Prio' => '200',
'Type' => ''
},
{
'AccessKey' => '',
'Block' => '',
'Description' => 'Import',
'Group' => [
  'stats'
],
'Link' => 'Action=AgentStats;Subaction=Import',
'LinkOption' => '',
'Name' => 'Import',
'NavBar' => 'Stats',
'Prio' => '300',
'Type' => ''
}
],
'NavBarName' => 'Stats',
'Title' => 'Stats'
};

```

2.44. Frontend::Agent::NavBarModule

2.44.1. Frontend::NavBarModule###6-CustomerCompany

Description:	Frontend module registration (disable company link if no company feature is used).
Group:	Framework
SubGroup:	Frontend::Agent::NavBarModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::NavBarModule'}->{'6-CustomerCompany'} = { 'Module' => 'Kernel::Output::HTML::NavBarCustomerCompany' };</pre>

2.45. Frontend::Agent::Preferences

2.45.1. PreferencesTableValue

Description:	Defines the name of the column to store the data in the preferences table.
--------------	--

Group:	Framework
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PreferencesTableValue'} = 'preferences_value';</code>

2.45.2. PreferencesTableUserID

Description:	Defines the name of the column to store the user identifier in the preferences table.
Group:	Framework
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PreferencesTableUserID'} = 'user_id';</code>

2.45.3. PreferencesView

Description:	Sets the display order of the different items in the preferences view.
Group:	Framework
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PreferencesView'} = ['User Profile', 'Email Settings', 'Other Settings'];</code>

2.45.4. PreferencesGroups###Password

Description:	Defines the config parameters of this item, to be shown in the preferences view.
Group:	Framework
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'PreferencesGroups'}->{'Password'} = { 'Active' => '1', 'Area' => 'Agent', 'Column' => 'User Profile', 'Label' => 'Change password', 'Module' => 'Kernel::Output::HTML::PreferencesPassword', 'PasswordMaxLoginFailed' => '0', 'PasswordMin2Characters' => '0', 'PasswordMin2Lower2UpperCharacters' => '0', 'PasswordMinSize' => '0', 'PasswordNeedDigit' => '0', 'PasswordRegExp' => '', 'Prio' => '0500' };</code>

2.45.5. PreferencesGroups###SpellDict

Description:	Defines the config parameters of this item, to be shown in the preferences view. Take care to maintain the dictionaries installed in the system in the data section.
Group:	Framework
SubGroup:	Frontend::Agent::Preferences
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'PreferencesGroups'}->{'SpellDict'} = { 'Active' => '1', 'Column' => 'User Profile', 'Data' => { 'deutsch' => 'Deutsch', 'english' => 'English' }, 'DataSelected' => 'english', 'Key' => 'Default spelling dictionary', 'Label' => 'Spelling Dictionary', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserSpellDict', 'Prio' => '2000' };</pre>

2.45.6. PreferencesGroups###Comment

Description:	Defines the config parameters of this item, to be shown in the preferences view.
Group:	Framework
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'PreferencesGroups'}->{'Comment'} = { 'Active' => '0', 'Block' => 'Input', 'Column' => 'Other Settings', 'Data' => '\$Env{"UserComment"}', 'Key' => 'Comment', 'Label' => 'Comment', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserComment', 'Prio' => '6000' };</pre>

2.45.7. PreferencesGroups###Language

Description:	Defines the config parameters of this item, to be shown in the preferences view.
Group:	Framework
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'PreferencesGroups'}->{'Language'} = { 'Active' => '1', 'Column' => 'User Profile', 'Key' => 'Frontend language', 'Label' => 'Language',</pre>

	<pre>'Module' => 'Kernel::Output::HTML::PreferencesLanguage', 'PrefKey' => 'UserLanguage', 'Prio' => '1000' };</pre>
--	---

2.45.8. PreferencesGroups###Skin

Description:	Defines the config parameters of this item, to be shown in the preferences view.
Group:	Framework
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'PreferencesGroups'}->{'Skin'} = { 'Active' => '1', 'Column' => 'User Profile', 'Key' => 'Wear this frontend skin', 'Label' => 'Skin', 'Module' => 'Kernel::Output::HTML::PreferencesSkin', 'PrefKey' => 'UserSkin', 'Prio' => '2000' };</pre>

2.45.9. PreferencesGroups###Theme

Description:	Defines the config parameters of this item, to be shown in the preferences view.
Group:	Framework
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'PreferencesGroups'}->{'Theme'} = { 'Active' => '1', 'Column' => 'User Profile', 'Key' => 'Frontend theme', 'Label' => 'Theme', 'Module' => 'Kernel::Output::HTML::PreferencesTheme', 'PrefKey' => 'UserTheme', 'Prio' => '3000' };</pre>

2.45.10. PreferencesGroups###OutOfOffice

Description:	Defines the config parameters of this item, to be shown in the preferences view.
Group:	Framework
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'PreferencesGroups'}->{'OutOfOffice'} = { 'Active' => '1', 'Block' => 'OutOfOffice', 'Column' => 'User Profile', 'Key' => '', 'Label' => 'Out Of Office Time', 'Module' => 'Kernel::Output::HTML::PreferencesOutOfOffice', 'PrefKey' => 'UserOutOfOffice', };</pre>

	'Prio' => '4000' };
--	------------------------

2.45.11. PreferencesGroups###TimeZone

Description:	Defines the config parameters of this item, to be shown in the preferences view.
Group:	Framework
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'PreferencesGroups'}->{'TimeZone'} = { 'Active' => '1', 'Column' => 'User Profile', 'Key' => 'Time Zone', 'Label' => 'Time Zone', 'Module' => 'Kernel::Output::HTML::PreferencesTimeZone', 'PrefKey' => 'UserTimeZone', 'Prio' => '5000' };</pre>

2.45.12. PreferencesGroups###CSVSeparator

Description:	Gives end users the possibility to override the separator character for CSV files, defined in the translation files.
Group:	Framework
SubGroup:	Frontend::Agent::Preferences
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'PreferencesGroups'}->{'CSVSeparator'} = { 'Active' => '1', 'Column' => 'Other Settings', 'Data' => { ' ' => ' ', ',' => ',', ';' => ';', '\\t' => 'tab', ' ' => ' ' }, 'DataSelected' => '0', 'Desc' => 'Select the separator character used in CSV files (stats and searches). If you don\\t select a separator here, the default separator for your language will be used.', 'Key' => 'CSV Separator', 'Label' => 'CSV Separator', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserCSVSeparator', 'Prio' => '4000' };</pre>

2.46. Frontend::Agent::SearchRouter

2.46.1. Frontend::SearchDefault

Description:	Search backend default router.
Group:	Framework
SubGroup:	Frontend::Agent::SearchRouter

Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Frontend::SearchDefault'} = 'Action=AgentTicketSearch;Subaction=AJAX';</code>

2.47. Frontend::Agent::Stats

2.47.1. Stats::SearchPageShown

Description:	Defines the default maximum number of search results shown on the overview page.
Group:	Framework
SubGroup:	Frontend::Agent::Stats
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::SearchPageShown'} = '20';</code>

2.47.2. Stats::DefaultSelectedDynamicObject

Description:	Defines the default selection at the drop down menu for dynamic objects (Form: Common Specification).
Group:	Framework
SubGroup:	Frontend::Agent::Stats
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::DefaultSelectedDynamicObject'} = 'Ticket';</code>

2.47.3. Stats::DefaultSelectedPermissions

Description:	Defines the default selection at the drop down menu for permissions (Form: Common Specification).
Group:	Framework
SubGroup:	Frontend::Agent::Stats
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::DefaultSelectedPermissions'} = ['stats'];</code>

2.47.4. Stats::DefaultSelectedFormat

Description:	Defines the default selection at the drop down menu for stats format (Form: Common Specification). Please insert the format key (see Stats::Format).
Group:	Framework
SubGroup:	Frontend::Agent::Stats
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::DefaultSelectedFormat'} = [</code>

	<pre>'Print', 'CSV'];</pre>
--	------------------------------

2.47.5. Stats::SearchLimit

Description:	Defines the search limit for the stats.
Group:	Framework
SubGroup:	Frontend::Agent::Stats
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::SearchLimit'} = '500';</code>

2.47.6. Stats::Format

Description:	Defines all the possible stats output formats.
Group:	Framework
SubGroup:	Frontend::Agent::Stats
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Stats::Format'} = { 'CSV' => 'CSV', 'GD::Graph::area' => 'graph-area', 'GD::Graph::bars' => 'graph-bars', 'GD::Graph::hbars' => 'graph-hbars', 'GD::Graph::lines' => 'graph-lines', 'GD::Graph::linespoints' => 'graph-lines-points', 'GD::Graph::pie' => 'graph-pie', 'GD::Graph::points' => 'graph-points', 'Print' => 'Print' };</pre>

2.47.7. Stats::GraphSize

Description:	Sets the size of the statistic graph.
Group:	Framework
SubGroup:	Frontend::Agent::Stats
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Stats::GraphSize'} = { '1200x800' => '1200x800', '1600x1200' => '1600x1200', '800x600' => '800x600' };</pre>

2.47.8. Stats::TimeType

Description:	Sets the time type which should be shown.
Group:	Framework
SubGroup:	Frontend::Agent::Stats
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::TimeType'} = 'Extended';</code>

2.47.9. Stats::ExchangeAxis

Description:	Allows agents to exchange the axis of a stat if they generate one.
Group:	Framework
SubGroup:	Frontend::Agent::Stats
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Stats::ExchangeAxis'} = '0';</code>

2.47.10. Stats::UseAgentElementInStats

Description:	Allows agents to generate individual-related stats.
Group:	Framework
SubGroup:	Frontend::Agent::Stats
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Stats::UseAgentElementInStats'} = '0';</code>

2.47.11. Stats::UseInvalidAgentInStats

Description:	Allows invalid agents to generate individual-related stats.
Group:	Framework
SubGroup:	Frontend::Agent::Stats
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Stats::UseInvalidAgentInStats'} = '1';</code>

2.47.12. Stats::CustomerIDAsMultiSelect

Description:	Shows all the customer identifiers in a multi-select field (not useful if you have a lot of customer identifiers).
Group:	Framework
SubGroup:	Frontend::Agent::Stats
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Stats::CustomerIDAsMultiSelect'} = '1';</code>

2.48. Frontend::Customer

2.48.1. CustomerHeadline

Description:	The headline shown in the customer interface.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerHeadline'} = 'Example Company Support';</code>

2.48.2. CustomerLogo

Description:	The logo shown in the header of the customer interface. The URL to the image can be a relative URL to the skin image directory, or a full URL to a remote web server.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerLogo'} = { 'StyleHeight' => '50px', 'StyleRight' => '25px', 'StyleTop' => '2px', 'StyleWidth' => '135px', 'URL' => 'skins/Customer/default/img/logo.png' };</pre>

2.48.3. CustomerPanelUserID

Description:	Defines the user identifier for the customer panel.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'CustomerPanelUserID'} = '1';</pre>

2.48.4. CustomerGroupSupport

Description:	Activates support for customer groups.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'CustomerGroupSupport'} = '0';</pre>

2.48.5. CustomerGroupAlwaysGroups

Description:	Defines the groups every customer user will be in (if CustomerGroupSupport is enabled and you don't want to manage every user for these groups).
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'CustomerGroupAlwaysGroups'} = ['users'];</pre>

2.48.6. CustomerPanelLoginURL

Description:	Defines an alternate login URL for the customer panel..
--------------	---

Group:	Framework
SubGroup:	Frontend::Customer
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'CustomerPanelLoginURL'} = 'http://host.example.com/cgi-bin/login.pl';</code>

2.48.7. CustomerPanelLogoutURL

Description:	Defines an alternate logout URL for the customer panel.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'CustomerPanelLogoutURL'} = 'http://host.example.com/cgi-bin/login.pl';</code>

2.48.8. Frontend::CustomerUser::Item###1-GoogleMaps

Description:	Defines a customer item, which generates a google maps icon at the end of a customer info block.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Frontend::CustomerUser::Item'}->{'1-GoogleMaps'} = { 'Attributes' => 'UserStreet;UserCity;UserCountry;', 'CSS' => 'Core.Agent.CustomerUser.GoogleMaps.css', 'CSSClass' => 'GoogleMaps', 'Module' => 'Kernel::Output::HTML::CustomerUserGeneric', 'Required' => 'UserStreet;UserCity;', 'Target' => '_blank', 'Text' => 'Location', 'URL' => 'http://maps.google.com/maps?z=7&q=' };</code>

2.48.9. Frontend::CustomerUser::Item###2-Google

Description:	Defines a customer item, which generates a google icon at the end of a customer info block.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Frontend::CustomerUser::Item'}->{'2-Google'} = { 'Attributes' => 'UserFirstname;UserLastname;', 'CSS' => 'Core.Agent.CustomerUser.Google.css', 'CSSClass' => 'Google', 'Module' => 'Kernel::Output::HTML::CustomerUserGeneric', 'Required' => 'UserFirstname;UserLastname;', 'Target' => '_blank', };</code>

	<pre>'Text' => 'Google', 'URL' => 'http://google.com/search?q=' };</pre>
--	--

2.48.10. Frontend::CustomerUser::Item###2-LinkedIn

Description:	Defines a customer item, which generates a LinkedIn icon at the end of a customer info block.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::CustomerUser::Item'}->{'2-LinkedIn'} = { 'Attributes' => 'UserFirstname;UserLastname;', 'CSS' => 'Core.Agent.CustomerUser.Linkedin.css', 'CSSClass' => 'LinkedIn', 'Module' => 'Kernel::Output::HTML::CustomerUserGeneric', 'Required' => 'UserFirstname;UserLastname;', 'Target' => '_blank', 'Text' => 'LinkedIn', 'URL' => 'http://www.linkedin.com/commonSearch? type=people&keywords=' };</pre>

2.48.11. Frontend::CustomerUser::Item###3-XING

Description:	Defines a customer item, which generates a XING icon at the end of a customer info block.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::CustomerUser::Item'}->{'3-XING'} = { 'Attributes' => 'UserFirstname;UserLastname;', 'CSS' => 'Core.Agent.CustomerUser.Xing.css', 'CSSClass' => 'Xing', 'Module' => 'Kernel::Output::HTML::CustomerUserGeneric', 'Required' => 'UserFirstname;UserLastname;', 'Target' => '_blank', 'Text' => 'XING', 'URL' => 'https://www.xing.com/app/search?op=search;keywords=' };</pre>

2.48.12. CustomerPanelPreApplicationModule###CustomerAccept

Description:	This module and its PreRun() function will be executed, if defined, for every request. This module is useful to check some user options or to display news about new applications.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerPanelPreApplicationModule'}->{'CustomerAccept'} = 'Kernel::Modules::CustomerAccept';</pre>

2.48.13. CustomerPanel::InfoKey

Description:	Defines the key to check with CustomerAccept. If this user preferences key is true, then the message is accepted by the system.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'CustomerPanel::InfoKey'} = 'CustomerAccept1';</code>

2.48.14. CustomerPanel::InfoFile

Description:	Defines the path of the shown info file, that is located under Kernel/Output/HTML/Standard/CustomerAccept.dtl.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'CustomerPanel::InfoFile'} = 'CustomerAccept';</code>

2.48.15. CustomerPanelLostPassword

Description:	Activates lost password feature for customers.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerPanelLostPassword'} = '1';</code>

2.48.16. CustomerPanelCreateAccount

Description:	Enables customers to create their own accounts.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerPanelCreateAccount'} = '1';</code>

2.48.17. CustomerPanelSubjectLostPasswordToken

Description:	Defines the subject for notification mails sent to customers, with token about new requested password.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1

Config-Setting:	<code>\$Self->{'CustomerPanelSubjectLostPasswordToken'} = 'New OTRS password request';</code>
-----------------	--

2.48.18. CustomerPanelBodyLostPasswordToken

Description:	Defines the body text for notification mails sent to customers, with token about new requested password (after using this link the new password will be sent).
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'CustomerPanelBodyLostPasswordToken'} = 'Hi <OTRS_USERFIRSTNAME>, You or someone impersonating you has requested to change your OTRS password. If you want to do this, click on this link. You will receive another email containing the password. <OTRS_CONFIG_ContentType>://<OTRS_CONFIG_FQDN>/ <OTRS_CONFIG_ScriptAlias>customer.pl? Action=CustomerLostPassword;Token=<OTRS_TOKEN> If you did not request a new password, please ignore this email. '; </pre>

2.48.19. CustomerPanelSubjectLostPassword

Description:	Defines the subject for notification mails sent to customers, about new password.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerPanelSubjectLostPassword'} = 'New OTRS password';</code>

2.48.20. CustomerPanelBodyLostPassword

Description:	Defines the body text for notification mails sent to customers, about new password (after using this link the new password will be sent).
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'CustomerPanelBodyLostPassword'} = 'Hi <OTRS_USERFIRSTNAME>, New password: <OTRS_NEWPW> <OTRS_CONFIG_ContentType>://<OTRS_CONFIG_FQDN>/ <OTRS_CONFIG_ScriptAlias>customer.pl '; </pre>

2.48.21. CustomerPanelSubjectNewAccount

Description:	Defines the subject for notification mails sent to customers, about new account.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerPanelSubjectNewAccount'} = 'New OTRS Account!';</code>

2.48.22. CustomerPanelBodyNewAccount

Description:	Defines the body text for notification mails sent to customers, about new account.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'CustomerPanelBodyNewAccount'} = 'Hi <OTRS_USERFIRSTNAME>, You or someone impersonating you has created a new OTRS account for you. Full name: <OTRS_USERFIRSTNAME> <OTRS_USERLASTNAME> User name: <OTRS_USERLOGIN> Password : <OTRS_USERPASSWORD> You can log in via the following URL. We encourage you to change your password via the Preferences button after logging in. <OTRS_CONFIG_HttpType>://<OTRS_CONFIG_FQDN>/ <OTRS_CONFIG_ScriptAlias>customer.pl '; </pre>

2.48.23. Loader::Customer::Skin###000-default

Description:	Default skin for OTRS 3.0 interface.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Loader::Customer::Skin'}->{'000-default'} = { 'Description' => 'This is the default orange - black skin for OTRS 3.0.', 'HomePage' => 'www.otrs.org', 'InternalName' => 'default', 'VisibleName' => 'Default' }; </pre>

2.48.24. Loader::Customer::SelectedSkin

Description:	The customer skin's InternalName which should be used in the customer interface. Please check the available skins in Frontend::Customer::Skins.
--------------	---

Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Loader::Customer::SelectedSkin'} = 'default';</code>

2.48.25. AutoComplete::Customer###Default

Description:	Defines the config options for the auto completion feature.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'AutoComplete::Customer'}->{'Default'} = { 'AutoCompleteActive' => '1', 'ButtonText' => 'Search', 'MaxResultsDisplayed' => '20', 'MinQueryLength' => '2', 'QueryDelay' => '100' };</code>

2.49. Frontend::Customer::Auth

2.49.1. Customer::AuthModule

Description:	Defines the module to authenticate customers.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Customer::AuthModule'} = 'Kernel::System::CustomerAuth::DB';</code>

2.49.2. Customer::AuthModule::DB::CryptType

Description:	If "DB" was selected for Customer::AuthModule, the crypt type of passwords must be specified.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Customer::AuthModule::DB::CryptType'} = 'sha2';</code>

2.49.3. Customer::AuthModule::DB::Table

Description:	If "DB" was selected for Customer::AuthModule, the name of the table where your customer data should be stored must be specified.
--------------	---

Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Customer::AuthModule::DB::Table'} = 'customer_user';</code>

2.49.4. Customer::AuthModule::DB::CustomerKey

Description:	If "DB" was selected for Customer::AuthModule, the name of the column for the CustomerKey in the customer table must be specified.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Customer::AuthModule::DB::CustomerKey'} = 'login';</code>

2.49.5. Customer::AuthModule::DB::CustomerPassword

Description:	If "DB" was selected for Customer::AuthModule, the column name for the CustomerPassword in the customer table must be specified.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Customer::AuthModule::DB::CustomerPassword'} = 'pw';</code>

2.49.6. Customer::AuthModule::DB::DSN

Description:	If "DB" was selected for Customer::AuthModule, the DSN for the connection to the customer table must be specified.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::DB::DSN'} = 'DBI:mysql:database=customerdb;host=customerdbhost';</code>

2.49.7. Customer::AuthModule::DB::User

Description:	If "DB" was selected for Customer::AuthModule, a username to connect to the customer table can be specified.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0

Config-Setting:	<code>\$Self->{'Customer::AuthModule::DB::User'} = 'some_user';</code>
-----------------	---

2.49.8. Customer::AuthModule::DB::Password

Description:	If "DB" was selected for Customer::AuthModule, a password to connect to the customer table can be specified.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::DB::Password'} = 'some_password';</code>

2.49.9. Customer::AuthModule::DB::Type

Description:	If "DB" was selected for Customer::AuthModule, a database driver (normally autodetection is used) can be specified.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::DB::Type'} = 'mysql';</code>

2.49.10. Customer::AuthModule::HTTPBasicAuth::Replace

Description:	If "HTTPBasicAuth" was selected for Customer::AuthModule, you can specify to strip leading parts of user names (e. g. for domains like example_domain\user to user).
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::HTTPBasicAuth::Replace'} = 'example_domain\\\\';</code>

2.49.11. Customer::AuthModule::HTTPBasicAuth::ReplaceRegExp

Description:	If "HTTPBasicAuth" was selected for Customer::AuthModule, you can specify (by using a RegExp) to strip parts of REMOTE_USER (e. g. for to remove trailing domains). RegExp-Note, \$1 will be the new Login.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::HTTPBasicAuth::ReplaceRegExp'} = '^(.+?)@.+?\$';</code>

2.49.12. Customer::AuthModule::LDAP::Host

Description:	If "LDAP" was selected for Customer::AuthModule, the LDAP host can be specified.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::LDAP::Host'} = 'ldap.example.com';</code>

2.49.13. Customer::AuthModule::LDAP::BaseDN

Description:	If "LDAP" was selected for Customer::AuthModule, the BaseDN must be specified.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::LDAP::BaseDN'} = 'dc=example,dc=com';</code>

2.49.14. Customer::AuthModule::LDAP::UID

Description:	If "LDAP" was selected for Customer::AuthModule, the user identifier must be specified.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::LDAP::UID'} = 'uid';</code>

2.49.15. Customer::AuthModule::LDAP::GroupDN

Description:	If "LDAP" was selected for Customer::Authmodule, you can check if the user is allowed to authenticate because he is in a posixGroup, e.g. user needs to be in a group xyz to use OTRS. Specify the group, who may access the system.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::LDAP::GroupDN'} = 'cn=otrsallow,ou=posixGroups,dc=example,dc=com';</code>

2.49.16. Customer::AuthModule::LDAP::AccessAttr

Description:	If "LDAP" was selected for Customer::AuthModule, you can specify access attributes here.
Group:	Framework

SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::LDAP::AccessAttr'} = 'memberUid';</code>

2.49.17. Customer::AuthModule::LDAP::UserAttr

Description:	If "LDAP" was selected for Customer::AuthModule, user attributes can be specified. For LDAP posixGroups use UID, for non LDAP posixGroups use full user DN.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::LDAP::UserAttr'} = 'UID';</code>

2.49.18. Customer::AuthModule::LDAP::SearchUserDN

Description:	If "LDAP" was selected for Customer::AuthModule and your users have only anonymous access to the LDAP tree, but you want to search through the data, you can do this with a user who has access to the LDAP directory. Specify the username for this special user here.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::LDAP::SearchUserDN'} = 'cn=binduser,ou=users,dc=example,dc=com';</code>

2.49.19. Customer::AuthModule::LDAP::SearchUserPw

Description:	If "LDAP" was selected for Customer::AuthModule and your users have only anonymous access to the LDAP tree, but you want to search through the data, you can do this with a user who has access to the LDAP directory. Specify the password for this special user here.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::LDAP::SearchUserPw'} = 'some_password';</code>

2.49.20. Customer::AuthModule::LDAP::AlwaysFilter

Description:	If "LDAP" was selected, you can add a filter to each LDAP query, e.g. (mail=*), (objectclass=user) or (!objectclass=computer).
Group:	Framework

SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::LDAP::AlwaysFilter'} = '(!objectclass=computer)';</code>

2.49.21. Customer::AuthModule::LDAP::UserSuffix

Description:	If "LDAP" was selected for Customer::AuthModule and if you want to add a suffix to every customer login name, specify it here, e. g. you just want to write the username user but in your LDAP directory exists user@domain.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::LDAP::UserSuffix'} = '@domain.com';</code>

2.49.22. Customer::AuthModule::LDAP::Params

Description:	If "LDAP" was selected for Customer::AuthModule and special paramaters are needed for the Net::LDAP perl module, you can specify them here. See "perldoc Net::LDAP" for more information about the parameters.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::LDAP::Params'} = { 'async' => '0', 'port' => '389', 'timeout' => '120', 'version' => '3' };</code>

2.49.23. Customer::AuthModule::LDAP::Die

Description:	If "LDAP" was selected for Customer::AuthModule, you can specify if the applications will stop if e. g. a connection to a server can't be established due to network problems.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::LDAP::Die'} = '1';</code>

2.49.24. Customer::AuthModule::Radius::Host

Description:	If "Radius" was selected for Customer::AuthModule, the radius host must be specified.
Group:	Framework

SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::Radius::Host'} = 'radiushost';</code>

2.49.25. Customer::AuthModule::Radius::Password

Description:	If "Radius" was selected for Customer::AuthModule, the password to authenticate to the radius host must be specified.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::Radius::Password'} = 'radiussecret';</code>

2.49.26. Customer::AuthModule::Radius::Die

Description:	If "Radius" was selected for Customer::AuthModule, you can specify if the applications will stop if e. g. a connection to a server can't be established due to network problems.
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::Radius::Die'} = '1';</code>

2.50. Frontend::Customer::ModuleMetaHead

2.50.1. CustomerFrontend::HeaderMetaModule###1-Refresh

Description:	Defines the module to generate html refresh headers of html sites, in the customer interface.
Group:	Framework
SubGroup:	Frontend::Customer::ModuleMetaHead
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerFrontend::HeaderMetaModule'}->{'1-Refresh'} = { 'Module' => 'Kernel::Output::HTML::HeaderMetaRefresh' };</code>

2.51. Frontend::Customer::ModuleNotify

2.51.1. CustomerFrontend::NotifyModule###1-ShowAgentOnline

Description:	Defines the module that shows the currently logged in agents in the customer interface.
--------------	---

Group:	Framework
SubGroup:	Frontend::Customer::ModuleNotify
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerFrontend::NotifyModule'}->{'1-ShowAgentOnline'} = { 'IdleMinutes' => '60', 'Module' => 'Kernel::Output::HTML::NotificationAgentOnline', 'ShowEmail' => '1' };</pre>

2.51.2. CustomerFrontend::NotifyModule###1-Show-CustomerOnline

Description:	Defines the module that shows the currently logged in customers in the customer interface.
Group:	Framework
SubGroup:	Frontend::Customer::ModuleNotify
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerFrontend::NotifyModule'}->{'1-ShowCustomerOnline'} = { 'Module' => 'Kernel::Output::HTML::NotificationCustomerOnline', 'ShowEmail' => '1' };</pre>

2.52. Frontend::Customer::ModuleRegistration

2.52.1. CustomerFrontend::Module###Logout

Description:	Frontend module registration for the customer interface.
Group:	Framework
SubGroup:	Frontend::Customer::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerFrontend::Module'}->{'Logout'} = { 'Description' => 'Logout of customer panel', 'NavBarName' => '', 'Title' => '' };</pre>

2.52.2. CustomerFrontend::Module###CustomerPreferences

Description:	Frontend module registration for the customer interface.
Group:	Framework
SubGroup:	Frontend::Customer::ModuleRegistration
Valid:	1
Required:	0

Config-Setting:	<pre>\$Self->{'CustomerFrontend::Module'}->{'CustomerPreferences'} = { 'Description' => 'Customer preferences', 'NavBarName' => '', 'Title' => 'Preferences' };</pre>
-----------------	--

2.52.3. CustomerFrontend::Module###CustomerAccept

Description:	Frontend module registration for the customer interface.
Group:	Framework
SubGroup:	Frontend::Customer::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerFrontend::Module'}->{'CustomerAccept'} = { 'Description' => 'To accept login information, such as an EULA or license.', 'NavBarName' => '', 'Title' => 'Info' };</pre>

2.52.4. CustomerFrontend::Module###PictureUpload

Description:	Frontend module registration for the customer interface.
Group:	Framework
SubGroup:	Frontend::Customer::ModuleRegistration
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'CustomerFrontend::Module'}->{'PictureUpload'} = { 'Description' => 'Picture upload module', 'NavBarName' => 'Ticket', 'Title' => 'Picture-Upload' };</pre>

2.53. Frontend::Customer::Preferences

2.53.1. PreferencesTable

Description:	Defines the name of the table, where the customer preferences are stored.
Group:	Framework
SubGroup:	Frontend::Customer::Preferences
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'PreferencesTable'} = 'user_preferences';</pre>

2.53.2. PreferencesTableKey

Description:	Defines the column to store the keys for the preferences table.
Group:	Framework
SubGroup:	Frontend::Customer::Preferences

Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PreferencesTableKey'} = 'preferences_key';</code>

2.53.3. CustomerPreferences

Description:	Defines the parameters for the customer preferences table.
Group:	Framework
SubGroup:	Frontend::Customer::Preferences
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerPreferences'} = { 'Module' => 'Kernel::System::CustomerUser::Preferences::DB', 'Params' => { 'Table' => 'customer_preferences', 'TableKey' => 'preferences_key', 'TableUserID' => 'user_id', 'TableValue' => 'preferences_value' } };</code>

2.53.4. CustomerPreferencesView

Description:	Sets the order of the different items in the customer preferences view.
Group:	Framework
SubGroup:	Frontend::Customer::Preferences
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerPreferencesView'} = ['User Profile', 'Other Settings'];</code>

2.53.5. CustomerPreferencesGroups###Password

Description:	Defines all the parameters for this item in the customer preferences.
Group:	Framework
SubGroup:	Frontend::Customer::Preferences
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'CustomerPreferencesGroups'}->{'Password'} = { 'Active' => '1', 'Area' => 'Customer', 'Column' => 'Other Settings', 'Label' => 'Change password', 'Module' => 'Kernel::Output::HTML::PreferencesPassword', 'PasswordMin2Characters' => '0', 'PasswordMin2Lower2UpperCharacters' => '0', 'PasswordMinSize' => '0', 'PasswordNeedDigit' => '0', 'PasswordRegExp' => '', 'Prio' => '1000' };</code>

```
};
```

2.53.6. CustomerPreferencesGroups###Language

Description:	Defines all the parameters for this item in the customer preferences.
Group:	Framework
SubGroup:	Frontend::Customer::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerPreferencesGroups'}->{'Language'} = { 'Active' => '1', 'Column' => 'User Profile', 'Key' => 'Language', 'Label' => 'Interface language', 'Module' => 'Kernel::Output::HTML::PreferencesLanguage', 'PrefKey' => 'UserLanguage', 'Prio' => '2000' };</pre>

2.53.7. CustomerPreferencesGroups###Theme

Description:	Defines all the parameters for this item in the customer preferences.
Group:	Framework
SubGroup:	Frontend::Customer::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerPreferencesGroups'}->{'Theme'} = { 'Active' => '0', 'Column' => 'User Profile', 'Key' => 'Select your frontend Theme.', 'Label' => 'Theme', 'Module' => 'Kernel::Output::HTML::PreferencesTheme', 'PrefKey' => 'UserTheme', 'Prio' => '1000' };</pre>

2.53.8. CustomerPreferencesGroups###TimeZone

Description:	Defines all the parameters for this item in the customer preferences.
Group:	Framework
SubGroup:	Frontend::Customer::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerPreferencesGroups'}->{'TimeZone'} = { 'Active' => '1', 'Column' => 'User Profile', 'Key' => 'Time Zone', 'Label' => 'Time Zone', 'Module' => 'Kernel::Output::HTML::PreferencesTimeZone', 'PrefKey' => 'UserTimeZone', 'Prio' => '5000' };</pre>

2.53.9. CustomerPreferencesGroups###PGP

Description:	Defines all the parameters for this item in the customer preferences.
Group:	Framework
SubGroup:	Frontend::Customer::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerPreferencesGroups'}->{'PGP'} = { 'Active' => '1', 'Column' => 'Other Settings', 'Key' => 'PGP Key Upload', 'Label' => 'PGP Key', 'Module' => 'Kernel::Output::HTML::PreferencesPGP', 'PrefKey' => 'UserPGPKey', 'Prio' => '10000' };</pre>

2.53.10. CustomerPreferencesGroups###SMIME

Description:	Defines all the parameters for this item in the customer preferences.
Group:	Framework
SubGroup:	Frontend::Customer::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerPreferencesGroups'}->{'SMIME'} = { 'Active' => '1', 'Column' => 'Other Settings', 'Key' => 'S/MIME Certificate Upload', 'Label' => 'S/MIME Certificate', 'Module' => 'Kernel::Output::HTML::PreferencesSMIME', 'PrefKey' => 'UserSMIMEKey', 'Prio' => '11000' };</pre>

2.54. Frontend::Public

2.54.1. PublicFrontend::CommonParam###Action

Description:	Defines the default value for the action parameter for the public frontend. The action parameter is used in the scripts of the system.
Group:	Framework
SubGroup:	Frontend::Public
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'PublicFrontend::CommonParam'}->{'Action'} = 'PublicDefault';</pre>

2.55. Frontend::Public::ModuleRegistration

2.55.1. PublicFrontend::Module###PublicDefault

Description:	Frontend module registration for the agent interface.
--------------	---

Group:	Framework
SubGroup:	Frontend::Public::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'PublicFrontend::Module'}->{'PublicDefault'} = { 'Description' => 'PublicDefault', 'NavBarName' => '', 'Title' => 'PublicDefault' };</pre>

2.55.2. PublicFrontend::Module###PublicRepository

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Public::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'PublicFrontend::Module'}->{'PublicRepository'} = { 'Description' => 'PublicRepository', 'NavBarName' => '', 'Title' => 'PublicRepository' };</pre>

2.55.3. PublicFrontend::Module###PublicSupportDataCollector

Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Public::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'PublicFrontend::Module'}->{'PublicSupportDataCollector'} = { 'Description' => 'PublicSupportDataCollector', 'NavBarName' => '', 'Title' => 'PublicSupportDataCollector' };</pre>

3. GenericInterface

3.1. Core::CustomerCompany

3.1.1. CustomerCompany::EventModule-Post###1000-GenericInterface

Description:	Performs the configured action for each event (as an Invoker) for each configured Webservice.
Group:	GenericInterface
SubGroup:	Core::CustomerCompany
Valid:	1
Required:	0

Config-Setting:	<pre>\$Self->{'CustomerCompany::EventModulePost'}->{'1000- GenericInterface'} = { 'Event' => '', 'Module' => 'Kernel::GenericInterface::Event::Handler', 'Transaction' => '1' };</pre>
-----------------	---

3.2. Core::CustomerUser

3.2.1. CustomerUser::EventModule-Post###1000-GenericInterface

Description:	Performs the configured action for each event (as an Invoker) for each configured Webservice.
Group:	GenericInterface
SubGroup:	Core::CustomerUser
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerUser::EventModulePost'}->{'1000-GenericInterface'} = { 'Event' => '', 'Module' => 'Kernel::GenericInterface::Event::Handler', 'Transaction' => '1' };</pre>

3.3. Core::Package

3.3.1. Package::EventModulePost###1000-GenericInterface

Description:	Performs the configured action for each event (as an Invoker) for each configured Webservice.
Group:	GenericInterface
SubGroup:	Core::Package
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Package::EventModulePost'}->{'1000-GenericInterface'} = { 'Event' => '', 'Module' => 'Kernel::GenericInterface::Event::Handler', 'Transaction' => '1' };</pre>

3.4. Core::Ticket

3.4.1. Ticket::EventModulePost###1000-GenericInterface

Description:	Performs the configured action for each event (as an Invoker) for each configured Webservice.
Group:	GenericInterface
SubGroup:	Core::Ticket
Valid:	1

Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::EventModulePost'}->{'1000-GenericInterface'} = { 'Event' => '', 'Module' => 'Kernel::GenericInterface::Event::Handler', 'Transaction' => '1' };</pre>

3.5. Frontend::Admin::ModuleRegistration

3.5.1. Frontend::Module###AdminGenericInterfaceDebugger

Description:	Frontend module registration for the agent interface.
Group:	GenericInterface
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminGenericInterfaceDebugger'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.GenericInterface.css'], 'CSS_IE7' => 'Core.Agent.Admin.GenericInterface.IE7.css', 'JavaScript' => ['Core.Agent.Admin.GenericInterfaceDebugger.js'] }, 'Title' => 'GenericInterface Debugger GUI' };</pre>

3.5.2. Frontend::Module###AdminGenericInterfaceWebservice

Description:	Frontend module registration for the agent interface.
Group:	GenericInterface
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminGenericInterfaceWebservice'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.GenericInterface.css'], 'JavaScript' => ['Core.Agent.Admin.GenericInterfaceWebservice.js'] }, 'NavBarModule' => { 'Block' => 'System', 'Description' => 'Create and manage web services.', } };</pre>

```
'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin',
'Name' => 'Web Services',
'Prio' => '1000'
},
'NavBarName' => 'Admin',
'Title' => 'GenericInterface Web Service GUI'
};
```

3.5.3. Frontend::Module###AdminGenericInterface-TransportHTTPSAP

Description:	Frontend module registration for the agent interface.
Group:	GenericInterface
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}- >{'AdminGenericInterfaceTransportHTTPSAP'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.GenericInterface.css'] }, 'Title' => 'GenericInterface TransportHTTPSAP GUI' };</pre>

3.5.4. Frontend::Module###AdminGenericInterfaceWebserviceHistory

Description:	Frontend module registration for the agent interface.
Group:	GenericInterface
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}- >{'AdminGenericInterfaceWebserviceHistory'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.GenericInterface.css'], 'JavaScript' => ['Core.Agent.Admin.GenericInterfaceWebserviceHistory.js'] }, 'Title' => 'GenericInterface Webservice History GUI' };</pre>

3.5.5. Frontend::Module###AdminGenericInterfaceOperationDefault

Description:	Frontend module registration for the agent interface.
--------------	---

Group:	GenericInterface
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}- >{'AdminGenericInterfaceOperationDefault'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.GenericInterface.css'], 'JavaScript' => ['Core.Agent.Admin.GenericInterfaceOperation.js'] }, 'Title' => 'GenericInterface Operation GUI' }; </pre>

3.5.6. Frontend::Module###AdminGenericInterfaceInvokerDefault

Description:	Frontend module registration for the agent interface.
Group:	GenericInterface
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}- >{'AdminGenericInterfaceInvokerDefault'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.GenericInterface.css'], 'JavaScript' => ['Core.Agent.Admin.GenericInterfaceInvoker.js'] }, 'Title' => 'GenericInterface Invoker GUI' }; </pre>

3.5.7. Frontend::Module###AdminGenericInterfaceMappingSimple

Description:	Frontend module registration for the agent interface.
Group:	GenericInterface
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminGenericInterfaceMappingSimple'} = { 'Description' => 'Admin', </pre>

```
'Group' => [
  'admin'
],
'Loader' => {
  'CSS' => [
    'Core.Agent.Admin.GenericInterface.css'
  ],
  'CSS_IE7' => 'Core.Agent.Admin.GenericInterface.IE7.css',
  'JavaScript' => [
    'Core.Agent.Admin.GenericInterfaceMappingSimple.js'
  ]
},
'Title' => 'GenericInterface Webservice Mapping GUI'
};
```

3.6. GenericInterface::Invoker::ModuleRegistration

3.6.1. GenericInterface::Invoker::Module###Test::Test

Description:	GenericInterface module registration for the invoker layer.
Group:	GenericInterface
SubGroup:	GenericInterface::Invoker::ModuleRegistration
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'GenericInterface::Invoker::Module'}->{'Test::Test'} = { 'ConfigDialog' => 'AdminGenericInterfaceInvokerDefault', 'Controller' => 'Test', 'Name' => 'Test' };</code>

3.6.2. GenericInterface::Invoker::Module###Test::TestSimple

Description:	GenericInterface module registration for the invoker layer.
Group:	GenericInterface
SubGroup:	GenericInterface::Invoker::ModuleRegistration
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'GenericInterface::Invoker::Module'}->{'Test::TestSimple'} = { 'ConfigDialog' => 'AdminGenericInterfaceInvokerDefault', 'Controller' => 'Test', 'Name' => 'TestSimple' };</code>

3.7. GenericInterface::Mapping::ModuleRegistration

3.7.1. GenericInterface::Mapping::Module###Test

Description:	GenericInterface module registration for the mapping layer.
Group:	GenericInterface

SubGroup:	GenericInterface::Mapping::ModuleRegistration
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'GenericInterface::Mapping::Module'}->{'Test'} = { 'ConfigDialog' => '' };</pre>

3.7.2. GenericInterface::Mapping::Module###Simple

Description:	GenericInterface module registration for the mapping layer.
Group:	GenericInterface
SubGroup:	GenericInterface::Mapping::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'GenericInterface::Mapping::Module'}->{'Simple'} = { 'ConfigDialog' => 'AdminGenericInterfaceMappingSimple' };</pre>

3.8. GenericInterface::Operation::ModuleRegistration

3.8.1. GenericInterface::Operation::Module###Test::Test

Description:	GenericInterface module registration for the operation layer.
Group:	GenericInterface
SubGroup:	GenericInterface::Operation::ModuleRegistration
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'GenericInterface::Operation::Module'}->{'Test::Test'} = { 'ConfigDialog' => 'AdminGenericInterfaceOperationDefault', 'Controller' => 'Test', 'Name' => 'Test' };</pre>

3.8.2. GenericInterface::Operation::Module###Session::SessionCreate

Description:	GenericInterface module registration for the operation layer.
Group:	GenericInterface
SubGroup:	GenericInterface::Operation::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'GenericInterface::Operation::Module'}->{'Session::SessionCreate'} = { 'ConfigDialog' => 'AdminGenericInterfaceOperationDefault', 'Controller' => 'Session', 'Name' => 'SessionCreate' };</pre>

3.8.3. GenericInterface::Operation::Module###Ticket::TicketCreate

Description:	GenericInterface module registration for the operation layer.
Group:	GenericInterface
SubGroup:	GenericInterface::Operation::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'GenericInterface::Operation::Module'}- >{'Ticket::TicketCreate'} = { 'ConfigDialog' => 'AdminGenericInterfaceOperationDefault', 'Controller' => 'Ticket', 'Name' => 'TicketCreate' };</pre>

3.8.4. GenericInterface::Operation::Module###Ticket::TicketUpdate

Description:	GenericInterface module registration for the operation layer.
Group:	GenericInterface
SubGroup:	GenericInterface::Operation::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'GenericInterface::Operation::Module'}- >{'Ticket::TicketUpdate'} = { 'ConfigDialog' => 'AdminGenericInterfaceOperationDefault', 'Controller' => 'Ticket', 'Name' => 'TicketUpdate' };</pre>

3.8.5. GenericInterface::Operation::Module###Ticket::TicketGet

Description:	GenericInterface module registration for the operation layer.
Group:	GenericInterface
SubGroup:	GenericInterface::Operation::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'GenericInterface::Operation::Module'}- >{'Ticket::TicketGet'} = { 'ConfigDialog' => 'AdminGenericInterfaceOperationDefault', 'Controller' => 'Ticket', 'Name' => 'TicketGet' };</pre>

3.8.6. GenericInterface::Operation::Module###Ticket::TicketSearch

Description:	GenericInterface module registration for the operation layer.
Group:	GenericInterface

SubGroup:	GenericInterface::Operation::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'GenericInterface::Operation::Module'}- >{'Ticket::TicketSearch'} = { 'ConfigDialog' => 'AdminGenericInterfaceOperationDefault', 'Controller' => 'Ticket', 'Name' => 'TicketGet' };</pre>

3.9. GenericInterface::Operation::TicketCreate

3.9.1. GenericInterface::Operation::TicketCreate###ArticleType

Description:	Defines the default type of the article for this operation.
Group:	GenericInterface
SubGroup:	GenericInterface::Operation::TicketCreate
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'GenericInterface::Operation::TicketCreate'}- >{'ArticleType'} = 'webrequest';</pre>

3.9.2. GenericInterface::Operation::TicketCreate###HistoryType

Description:	Defines the history type for this operation, which gets used for ticket history in the agent interface.
Group:	GenericInterface
SubGroup:	GenericInterface::Operation::TicketCreate
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'GenericInterface::Operation::TicketCreate'}- >{'HistoryType'} = 'NewTicket';</pre>

3.9.3. GenericInterface::Operation::TicketCreate###HistoryComment

Description:	Defines the history comment for this operation, which gets used for ticket history in the agent interface.
Group:	GenericInterface
SubGroup:	GenericInterface::Operation::TicketCreate
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'GenericInterface::Operation::TicketCreate'}- >{'HistoryComment'} = '%GenericInterface Create';</pre>

3.9.4. GenericInterface::Operation::TicketCreate###AutoResponseType

Description:	Defines the default auto response type of the article for this operation.
Group:	GenericInterface
SubGroup:	GenericInterface::Operation::TicketCreate
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'GenericInterface::Operation::TicketCreate'}->{'AutoResponseType'} = 'auto reply';</code>

3.10. GenericInterface::Operation::TicketSearch

3.10.1. GenericInterface::Operation::TicketSearch###SearchLimit

Description:	Maximum number of tickets to be displayed in the result of this operation.
Group:	GenericInterface
SubGroup:	GenericInterface::Operation::TicketSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'GenericInterface::Operation::TicketSearch'}->{'SearchLimit'} = '500';</code>

3.10.2. GenericInterface::Operation::TicketSearch###SortBy::Default

Description:	Defines the default ticket attribute for ticket sorting of the ticket search result of this operation.
Group:	GenericInterface
SubGroup:	GenericInterface::Operation::TicketSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'GenericInterface::Operation::TicketSearch'}->{'SortBy::Default'} = 'Age';</code>

3.10.3. GenericInterface::Operation::TicketSearch###Order::Default

Description:	Defines the default ticket order in the ticket search result of the this operation. Up: oldest on top. Down: latest on top.
Group:	GenericInterface
SubGroup:	GenericInterface::Operation::TicketSearch
Valid:	1

Required:	1
Config-Setting:	<code>\$Self->{'GenericInterface::Operation::TicketSearch'}->{'Order::Default'} = 'Down';</code>

3.11. GenericInterface::Operation::TicketUpdate

3.11.1. GenericInterface::Operation::TicketUpdate###ArticleType

Description:	Defines the default type of the article for this operation.
Group:	GenericInterface
SubGroup:	GenericInterface::Operation::TicketUpdate
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'GenericInterface::Operation::TicketUpdate'}->{'ArticleType'} = 'webrequest';</code>

3.11.2. GenericInterface::Operation::TicketUpdate###HistoryType

Description:	Defines the history type for this operation, which gets used for ticket history in the agent interface.
Group:	GenericInterface
SubGroup:	GenericInterface::Operation::TicketUpdate
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'GenericInterface::Operation::TicketUpdate'}->{'HistoryType'} = 'AddNote';</code>

3.11.3. GenericInterface::Operation::TicketUpdate###HistoryComment

Description:	Defines the history comment for this operation, which gets used for ticket history in the agent interface.
Group:	GenericInterface
SubGroup:	GenericInterface::Operation::TicketUpdate
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'GenericInterface::Operation::TicketUpdate'}->{'HistoryComment'} = '%GenericInterface Note';</code>

3.11.4. GenericInterface::Operation::TicketUpdate###AutoResponseType

Description:	Defines the default auto response type of the article for this operation.
--------------	---

Group:	GenericInterface
SubGroup:	GenericInterface::Operation::TicketUpdate
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'GenericInterface::Operation::TicketUpdate'}->{'AutoResponseType'} = 'auto follow up';</code>

3.12. GenericInterface::Transport::ModuleRegistration

3.12.1. GenericInterface::Transport::Module###HTTP::SOAP

Description:	GenericInterface module registration for the transport layer.
Group:	GenericInterface
SubGroup:	GenericInterface::Transport::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'GenericInterface::Transport::Module'}->{'HTTP::SOAP'} = { 'ConfigDialog' => 'AdminGenericInterfaceTransportHTTPSOAP', 'Name' => 'SOAP', 'Protocol' => 'HTTP' };</code>

3.12.2. GenericInterface::Transport::Module###HTTP::Test

Description:	GenericInterface module registration for the transport layer.
Group:	GenericInterface
SubGroup:	GenericInterface::Transport::ModuleRegistration
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'GenericInterface::Transport::Module'}->{'HTTP::Test'} = { 'ConfigDialog' => 'AdminGenericInterfaceTransportHTTPTest', 'Name' => 'Test', 'Protocol' => 'HTTP' };</code>

3.13. GenericInterface::Webservice

3.13.1. GenericInterface::WebserviceConfig::CacheTTL

Description:	Cache time in seconds for the web service config backend.
Group:	GenericInterface
SubGroup:	GenericInterface::Webservice
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'GenericInterface::WebserviceConfig::CacheTTL'} = '86400';</code>

3.13.2. GenericInterface::Operation::Common::CachedAuth::AgentCacheTTL

Description:	Cache time in seconds for agent authentication in the GenericInterface.
Group:	GenericInterface
SubGroup:	GenericInterface::Webservice
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'GenericInterface::Operation::Common::CachedAuth::AgentCacheTTL'} = '300';</code>

3.13.3. GenericInterface::Operation::Common::CachedAuth::CustomerCacheTTL

Description:	Cache time in seconds for customer authentication in the GenericInterface.
Group:	GenericInterface
SubGroup:	GenericInterface::Webservice
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'GenericInterface::Operation::Common::CachedAuth::CustomerCacheTTL'} = '300';</code>

3.13.4. GenericInterface::Webservice::Path::Separator

Description:	Webservice path separator.
Group:	GenericInterface
SubGroup:	GenericInterface::Webservice
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'GenericInterface::Webservice::Path::Separator'} = '>';</code>

4. ProcessManagement

4.1. Core

4.1.1. Process::DynamicFieldProcessManagement-ProcessID

Description:	This option defines the dynamic field in which a Process Management process entity id is stored.
Group:	ProcessManagement
SubGroup:	Core
Valid:	1

Required:	1
Config-Setting:	<code>\$Self->{'Process::DynamicFieldProcessManagementProcessID'} = 'ProcessManagementProcessID';</code>

4.1.2. Process::DynamicFieldProcessManagementActivityID

Description:	This option defines the dynamic field in which a Process Management activity entity id is stored.
Group:	ProcessManagement
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Process::DynamicFieldProcessManagementActivityID'} = 'ProcessManagementActivityID';</code>

4.1.3. Process::DefaultQueue

Description:	This option defines the process tickets default queue.
Group:	ProcessManagement
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Process::DefaultQueue'} = 'Raw';</code>

4.1.4. Process::DefaultState

Description:	This option defines the process tickets default state.
Group:	ProcessManagement
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Process::DefaultState'} = 'new';</code>

4.1.5. Process::DefaultLock

Description:	This option defines the process tickets default lock.
Group:	ProcessManagement
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Process::DefaultLock'} = 'unlock';</code>

4.1.6. Process::DefaultPriority

Description:	This option defines the process tickets default priority.
--------------	---

Group:	ProcessManagement
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Process::DefaultPriority'} = '3 normal';</code>

4.1.7. Process::Entity::Prefix

Description:	Default ProcessManagement entity prefixes for entity IDs that are automatically generated.
Group:	ProcessManagement
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Process::Entity::Prefix'} = { 'Activity' => 'A', 'ActivityDialog' => 'AD', 'Process' => 'P', 'Transition' => 'T', 'TransitionAction' => 'TA' };</code>

4.1.8. Process::CacheTTL

Description:	Cache time in seconds for the DB process backend.
Group:	ProcessManagement
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Process::CacheTTL'} = '3600';</code>

4.1.9. Process::NavBarOutput::CacheTTL

Description:	Cache time in seconds for the ticket process navigation bar output module.
Group:	ProcessManagement
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Process::NavBarOutput::CacheTTL'} = '900';</code>

4.2. Core::Ticket

4.2.1. Ticket::EventModulePost###TicketProcessTransitions

Description:	Event module registration. For more performance you can define a trigger event (e. g. Event => TicketCreate).
--------------	---

Group:	ProcessManagement
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::EventModulePost'}->{'TicketProcessTransitions'} = { 'Event' => '', 'Module' => 'Kernel::System::Ticket::Event::TicketProcessTransitions', 'Transaction' => '1' };</pre>

4.3. Frontend::Admin::ModuleRegistration

4.3.1. Frontend::Module###AdminProcessManagement

Description:	Frontend module registration for the agent interface.
Group:	ProcessManagement
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminProcessManagement'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.ProcessManagement.css', 'Core.AllocationList.css'], 'JavaScript' => ['thirdparty/jsplumb-1.5.5/jsplumb.js', 'thirdparty/farahey-0.1/farahey.js', 'thirdparty/jsplumb-labelspacer/label-spacer.js', 'Core.Agent.Admin.ProcessManagement.js', 'Core.Agent.Admin.ProcessManagement.Canvas.js', 'Core.UI.AllocationList.js'] }, 'NavBarModule' => { 'Block' => 'System', 'Description' => 'Configure Processes.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Process Management', 'Prio' => '750' }, 'NavBarName' => 'Admin', 'Title' => 'Process Management' };</pre>

4.3.2. Frontend::Module###AdminProcessManagementActivity

Description:	Frontend module registration for the agent interface.
Group:	ProcessManagement
SubGroup:	Frontend::Admin::ModuleRegistration

Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminProcessManagementActivity'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.ProcessManagement.css', 'Core.AllocationList.css'], 'JavaScript' => ['Core.Agent.Admin.ProcessManagement.js', 'Core.UI.AllocationList.js'] }, 'Title' => 'Process Management Activity GUI' }; </pre>

4.3.3. Frontend::Module###AdminProcessManagementActivityDialog

Description:	Frontend module registration for the agent interface.
Group:	ProcessManagement
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminProcessManagementActivityDialog'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.ProcessManagement.css', 'Core.AllocationList.css'], 'JavaScript' => ['Core.Agent.Admin.ProcessManagement.js', 'Core.UI.AllocationList.js'] }, 'Title' => 'Process Management Activity Dialog GUI' }; </pre>

4.3.4. Frontend::Module###AdminProcessManagementTransition

Description:	Frontend module registration for the agent interface.
Group:	ProcessManagement
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminProcessManagementTransition'} = { </pre>

```
'Description' => 'Admin',
'Group' => [
  'admin'
],
'Loader' => {
  'CSS' => [
    'Core.Agent.Admin.ProcessManagement.css'
  ],
  'JavaScript' => [
    'Core.Agent.Admin.ProcessManagement.js'
  ]
},
'Title' => 'Process Management Transition GUI'
};
```

4.3.5. Frontend::Module###AdminProcessManagementTransitionAction

Description:	Frontend module registration for the agent interface.
Group:	ProcessManagement
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminProcessManagementTransitionAction'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.ProcessManagement.css'], 'JavaScript' => ['Core.Agent.Admin.ProcessManagement.js'] }, 'Title' => 'Process Management Transition Action GUI' };</pre>

4.3.6. Frontend::Module###AdminProcessManagementPath

Description:	Frontend module registration for the agent interface.
Group:	ProcessManagement
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminProcessManagementPath'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.ProcessManagement.css', 'Core.AllocationList.css'], 'JavaScript' => ['Core.Agent.Admin.ProcessManagement.js', </pre>

```

    'Core.UI.AllocationList.js'
  ]
},
'Title' => 'Process Management Path GUI'
};

```

4.4. Frontend::Agent::ModuleRegistration

4.4.1. Frontend::Module###AgentTicketProcess

Description:	Frontend module registration for the agent interface.
Group:	ProcessManagement
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'Frontend::Module'}->{'AgentTicketProcess'} = { 'Description' => 'Create new process ticket', 'Loader' => { 'CSS' => ['Core.Agent.TicketProcess.css'], 'JavaScript' => ['Core.Agent.CustomerSearch.js', 'Core.Agent.TicketAction.js'] }, 'NavBar' => [{ 'AccessKey' => 'p', 'Block' => '', 'Description' => 'Create New process ticket', 'Link' => 'Action=AgentTicketProcess', 'LinkOption' => '', 'Name' => 'New process ticket', 'NavBar' => 'Ticket', 'Prio' => '220', 'Type' => '' }], 'NavBarName' => 'Ticket', 'Title' => 'New process ticket' }; </pre>

4.5. Frontend::Agent::NavBarModule

4.5.1. Frontend::NavBarOutputModule###1-Ticket-Processes

Description:	Frontend module registration (disable ticket processes screen if no process available).
Group:	ProcessManagement
SubGroup:	Frontend::Agent::NavBarModule
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'Frontend::NavBarOutputModule'}->{'1-TicketProcesses'} = { 'Module' => 'Kernel::Output::HTML::NavBarOutputModuleAgentTicketProcess' }; </pre>

```
};
```

4.6. Frontend::Agent::Ticket::ViewProcess

4.6.1. Ticket::Frontend::AgentTicketProcess###State-Type

Description:	Determines the next possible ticket states, for process tickets in the agent interface.
Group:	ProcessManagement
SubGroup:	Frontend::Agent::Ticket::ViewProcess
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketProcess'}->{'StateType'} = ['new', 'open', 'pending auto', 'pending reminder', 'closed'];</pre>

4.6.2. Ticket::Frontend::CustomerTicketProcess###StateType

Description:	Determines the next possible ticket states, for process tickets in the agent interface.
Group:	ProcessManagement
SubGroup:	Frontend::Agent::Ticket::ViewProcess
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketProcess'}->{'StateType'} = ['new', 'open'];</pre>

4.7. Frontend::Agent::Ticket::ViewZoom

4.7.1. Ticket::Frontend::AgentTicketZoom###Process-Display

Description:	Display settings to override defaults for Process Tickets.
Group:	ProcessManagement
SubGroup:	Frontend::Agent::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketZoom'}->{'ProcessDisplay'} = { 'NavBarName' => 'Processes', 'WidgetTitle' => 'Process Information' };</pre>

4.7.2. Ticket::Frontend::AgentTicketZoom###ProcessWidgetDynamicFieldGroups

Description:	Dynamic fields groups for process widget. The key is the name of the group, the value contains the fields to be shown. Example: 'Key => My Group', 'Content: Name_X, NameY'.
Group:	ProcessManagement
SubGroup:	Frontend::Agent::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketZoom'}->{'ProcessWidgetDynamicFieldGroups'} = {};</code>

4.7.3. Ticket::Frontend::AgentTicketZoom###ProcessWidgetDynamicField

Description:	Dynamic fields shown in the process widget in ticket zoom screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled.
Group:	ProcessManagement
SubGroup:	Frontend::Agent::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketZoom'}->{'ProcessWidgetDynamicField'} = {};</code>

4.8. Frontend::Customer::ModuleRegistration

4.8.1. CustomerFrontend::Module###CustomerTicketProcess

Description:	Frontend module registration for the customer interface.
Group:	ProcessManagement
SubGroup:	Frontend::Customer::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'CustomerFrontend::Module'}->{'CustomerTicketProcess'} = { 'Description' => 'Process Ticket', 'Loader' => { 'CSS' => ['Core.Customer.TicketProcess.css'] }, 'NavBar' => [{ 'AccessKey' => 'o', 'Block' => '', 'Description' => 'Create new process ticket', 'Link' => 'Action=CustomerTicketProcess', 'LinkOption' => '', 'Name' => 'New process ticket', 'NavBar' => 'Ticket', 'Prio' => '220', 'Type' => 'Submenu' }] };</code>

```

    }
  ],
  'NavBarName' => 'Ticket',
  'Title' => 'Process ticket'
};

```

4.9. Frontend::Customer::NavBarModule

4.9.1. CustomerFrontend::NavBarModule###10-CustomerTicketProcesses

Description:	Frontend module registration (disable ticket processes screen if no process available) for Customer.
Group:	ProcessManagement
SubGroup:	Frontend::Customer::NavBarModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerFrontend::NavBarModule'}->{'10-CustomerTicketProcesses'} = { 'Module' => 'Kernel::Output::HTML::NavBarOutputModuleCustomerTicketProcess' };</pre>

5. Scheduler

5.1. Core

5.1.1. Scheduler::SleepTime

Description:	Defines scheduler sleep time in seconds after processing all available tasks (floating point number).
Group:	Scheduler
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Scheduler::SleepTime'} = '1.0';</pre>

5.1.2. Scheduler::PIDUpdateTime

Description:	Defines scheduler PID update time in seconds.
Group:	Scheduler
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Scheduler::PIDUpdateTime'} = '600';</pre>

5.1.3. Scheduler::RestartAfterSeconds

Description:	Defines the time in seconds after which the Scheduler performs an automatic self-restart.
--------------	---

Group:	Scheduler
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Scheduler::RestartAfterSeconds'} = '86400';</code>

5.1.4. Scheduler::TaskDataLength

Description:	Defines the maximum length (in characters) for a scheduler task data. WARNING: Do not modify this setting unless you are sure of the current Database length for 'task_data' filed from 'scheduler_data_list' table.
Group:	Scheduler
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Scheduler::TaskDataLength'} = '8000';</code>

5.2. Core::Log

5.2.1. Scheduler::LogPath

Description:	Defines the path for scheduler to store its console output (SchedulerOUT.log and SchedulerERR.log).
Group:	Scheduler
SubGroup:	Core::Log
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Scheduler::LogPath'} = '<OTRS_CONFIG_Home>/var/log';</code>

5.2.2. Scheduler::Log::DaysToKeep

Description:	Defines the time in days to keep log backup files.
Group:	Scheduler
SubGroup:	Core::Log
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Scheduler::Log::DaysToKeep'} = '10';</code>

5.3. Core::Web

5.3.1. Loader::Agent::CommonJS###000-GenericInterface

Description:	List of JS files to always be loaded for the agent interface.
Group:	Scheduler

SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Loader::Agent::CommonJS'}->{'000-GenericInterface'} = ['Core.Agent.Admin.Scheduler.js'];</pre>

5.4. Frontend::Admin::ModuleRegistration

5.4.1. Frontend::Module###AdminScheduler

Description:	Frontend module registration for the agent interface.
Group:	Scheduler
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminScheduler'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Title' => 'GenericInterface Webservice Mapping GUI' };</pre>

5.5. Frontend::Agent::ModuleNotify

5.5.1. Frontend::NotifyModule###800-Scheduler-Check

Description:	Defines the module to display a notification in the agent interface if the scheduler is not running.
Group:	Scheduler
SubGroup:	Frontend::Agent::ModuleNotify
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::NotifyModule'}->{'800-Scheduler-Check'} = { 'Module' => 'Kernel::Output::HTML::NotificationSchedulerCheck' };</pre>

6. Ticket

6.1. Core

6.1.1. OTRSEscalationEvents::DecayTime

Description:	The duration in minutes after emitting an event, in which the new escalation notify and start events are suppressed.
Group:	Ticket
SubGroup:	Core

Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'OTRSEscalationEvents::DecayTime'} = '1440';</code>

6.2. Core::CustomerCompany

6.2.1. CustomerCompany::EventModule-Post###110-UpdateTickets

Description:	Event module that updates tickets after an update of the Customer Company.
Group:	Ticket
SubGroup:	Core::CustomerCompany
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'CustomerCompany::EventModulePost'}->{'110-UpdateTickets'} = { 'Event' => 'CustomerCompanyUpdate', 'Module' => 'Kernel::System::CustomerCompany::Event::TicketUpdate', 'Transaction' => '0' };</code>

6.2.2. CustomerUser::EventModulePost###120-UpdateTickets

Description:	Event module that updates tickets after an update of the Customer User.
Group:	Ticket
SubGroup:	Core::CustomerCompany
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'CustomerUser::EventModulePost'}->{'120-UpdateTickets'} = { 'Event' => 'CustomerUserUpdate', 'Module' => 'Kernel::System::CustomerUser::Event::TicketUpdate', 'Transaction' => '0' };</code>

6.3. Core::FulltextSearch

6.3.1. Ticket::SearchIndexModule

Description:	Helps to extend your articles full-text search (From, To, Cc, Subject and Body search). Runtime will do full-text searches on live data (it works fine for up to 50.000 tickets). StaticDB will strip all articles and will build an index after article creation, increasing fulltext searches about 50%. To create an initial index use "bin/otrs.RebuildFulltextIndex.pl".
Group:	Ticket
SubGroup:	Core::FulltextSearch

Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::SearchIndexModule'} = 'Kernel::System::Ticket::ArticleSearchIndex::RuntimeDB';</code>

6.3.2. Ticket::SearchIndex::Attribute

Description:	Basic fulltext index settings. Execute "bin/otrs.RebuildFulltextIndex.pl" in order to generate a new index.
Group:	Ticket
SubGroup:	Core::FulltextSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::SearchIndex::Attribute'} = { 'WordCountMax' => '1000', 'WordLengthMax' => '30', 'WordLengthMin' => '3' };</code>

6.3.3. Ticket::SearchIndex::Filters

Description:	Fulltext index regex filters to remove parts of the text.
Group:	Ticket
SubGroup:	Core::FulltextSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::SearchIndex::Filters'} = ['[,\\&\\<\\>\\?\"\\!*\\ \\;\\[\\]\\\\(\\)\\\\+\\\\\$\\\\^=]', '^\\\\[\\'\\.:] \\\\[\\'\\.:]\$'];</code>

6.3.4. Ticket::SearchIndex::StopWords

Description:	Stop words for fulltext index. These words will be removed.
Group:	Ticket
SubGroup:	Core::FulltextSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::SearchIndex::StopWords'} = { 'a' => '1', 'als' => '1', 'and' => '1', 'auf' => '1', 'das' => '1', 'den' => '1', 'der' => '1', 'die' => '1', 'for' => '1', 'im' => '1', 'in' => '1', 'is' => '1', 'of' => '1', 'the' => '1', 'to' => '1', 'und' => '1', };</code>

```
'vom' => '1',
'zu' => '1'
};
```

6.3.5. Ticket::EventModulePost###98-ArticleSearchIndex

Description:	Builds an article index right after the article's creation.
Group:	Ticket
SubGroup:	Core::FulltextSearch
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::EventModulePost'}->{'98-ArticleSearchIndex'} = { 'Event' => '(ArticleCreate ArticleUpdate)', 'Module' => 'Kernel::System::Ticket::Event::ArticleSearchIndex' };</pre>

6.4. Core::LinkObject

6.4.1. LinkObject::PossibleLink###0200

Description:	Links 2 tickets with a "Normal" type link.
Group:	Ticket
SubGroup:	Core::LinkObject
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'LinkObject::PossibleLink'}->{'0200'} = { 'Object1' => 'Ticket', 'Object2' => 'Ticket', 'Type' => 'Normal' };</pre>

6.4.2. LinkObject::PossibleLink###0201

Description:	Links 2 tickets with a "ParentChild" type link.
Group:	Ticket
SubGroup:	Core::LinkObject
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'LinkObject::PossibleLink'}->{'0201'} = { 'Object1' => 'Ticket', 'Object2' => 'Ticket', 'Type' => 'ParentChild' };</pre>

6.5. Core::PostMaster

6.5.1. PostmasterMaxEmails

Description:	Maximal auto email responses to own email-address a day (Loop-Protection).
--------------	--

Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostmasterMaxEmails'} = '40';</code>

6.5.2. PostMasterMaxEmailSize

Description:	Maximal size in KBytes for mails that can be fetched via POP3/POP3S/IMAP/IMAPS (KBytes).
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostMasterMaxEmailSize'} = '16384';</code>

6.5.3. PostMasterReconnectMessage

Description:	The "bin/PostMasterMailAccount.pl" will reconnect to POP3/POP3S/IMAP/IMAPS host after the specified count of messages.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostMasterReconnectMessage'} = '20';</code>

6.5.4. LoopProtectionModule

Description:	Default loop protection module.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'LoopProtectionModule'} = 'Kernel::System::PostMaster::LoopProtection::DB';</code>

6.5.5. LoopProtectionLog

Description:	Path for the log file (it only applies if "FS" was selected for LoopProtectionModule and it is mandatory).
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'LoopProtectionLog'} = '<OTRS_CONFIG_Home>/var/log/LoopProtection';</code>

6.5.6. PostmasterAutoHTML2Text

Description:	Converts HTML mails into text messages.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostmasterAutoHTML2Text'} = '1';</code>

6.5.7. PostmasterFollowUpSearchInReferences

Description:	Executes follow up checks on In-Reply-To or References headers for mails that don't have a ticket number in the subject.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostmasterFollowUpSearchInReferences'} = '0';</code>

6.5.8. PostmasterFollowUpSearchInBody

Description:	Executes follow up mail body checks in mails that don't have a ticket number in the subject.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostmasterFollowUpSearchInBody'} = '0';</code>

6.5.9. PostmasterFollowUpSearchInAttachment

Description:	Executes follow up mail attachments checks in mails that don't have a ticket number in the subject.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostmasterFollowUpSearchInAttachment'} = '0';</code>

6.5.10. PostmasterFollowUpSearchInRaw

Description:	Executes follow up plain/raw mail checks in mails that don't have a ticket number in the subject.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1

Config-Setting:	<code>\$Self->{'PostmasterFollowUpSearchInRaw'} = '0';</code>
-----------------	--

6.5.11. PostmasterUserID

Description:	Specifies user id of the postmaster data base.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostmasterUserID'} = '1';</code>

6.5.12. PostmasterDefaultQueue

Description:	Defines the postmaster default queue.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostmasterDefaultQueue'} = 'Raw';</code>

6.5.13. PostmasterDefaultPriority

Description:	Defines the default priority of new tickets.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostmasterDefaultPriority'} = '3 normal';</code>

6.5.14. PostmasterDefaultState

Description:	Defines the default state of new tickets.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostmasterDefaultState'} = 'new';</code>

6.5.15. PostmasterFollowUpState

Description:	Defines the state of a ticket if it gets a follow-up.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostmasterFollowUpState'} = 'open';</code>

6.5.16. PostmasterFollowUpStateClosed

Description:	Defines the state of a ticket if it gets a follow-up and the ticket was already closed.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'PostmasterFollowUpStateClosed'} = 'open';</code>

6.5.17. PostmasterFollowUpOnUnlockAgentNotifyOnlyToOwner

Description:	Sends agent follow-up notification only to the owner, if a ticket is unlocked (the default is to send the notification to all agents).
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostmasterFollowUpOnUnlockAgentNotifyOnlyToOwner'} = '0';</code>

6.5.18. PostmasterX-Header

Description:	Defines all the X-headers that should be scanned.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostmasterX-Header'} = ['From', 'To', 'Cc', 'Reply-To', 'ReplyTo', 'Subject', 'Message-ID', 'Message-Id', 'Resent-To', 'Resent-From', 'Precedence', 'Mailing-List', 'List-Id', 'List-Archive', 'Errors-To', 'References', 'In-Reply-To', 'Auto-Submitted', 'X-Loop', 'X-Spam-Flag', 'X-Spam-Level', 'X-Spam-Score', 'X-Spam-Status', 'X-No-Loop', 'X-Priority', 'Importance', 'X-Mailer',</code>

```
'User-Agent',
'Organization',
'X-Original-To',
'Delivered-To',
'Envelope-To',
'Return-Path',
'X-OTRS-Owner',
'X-OTRS-OwnerID',
'X-OTRS-Responsible',
'X-OTRS-ResponsibleID',
'X-OTRS-Loop',
'X-OTRS-Priority',
'X-OTRS-Queue',
'X-OTRS-Lock',
'X-OTRS-Ignore',
'X-OTRS-State',
'X-OTRS-State-PendingTime',
'X-OTRS-Type',
'X-OTRS-Service',
'X-OTRS-SLA',
'X-OTRS-CustomerNo',
'X-OTRS-CustomerUser',
'X-OTRS-SenderType',
'X-OTRS-ArticleType',
'X-OTRS-FollowUp-Priority',
'X-OTRS-FollowUp-Queue',
'X-OTRS-FollowUp-Lock',
'X-OTRS-FollowUp-State',
'X-OTRS-FollowUp-State-PendingTime',
'X-OTRS-FollowUp-Type',
'X-OTRS-FollowUp-Service',
'X-OTRS-FollowUp-SLA',
'X-OTRS-FollowUp-SenderType',
'X-OTRS-FollowUp-ArticleType'
];
```

6.5.19. PostMaster::PreFilterModule###1-Match

Description:	Module to filter and manipulate incoming messages. Block/ignore all spam email with From: noreply@ address.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'PostMaster::PreFilterModule'}->{'1-Match'} = { 'Match' => { 'From' => 'noreply@' }, 'Module' => 'Kernel::System::PostMaster::Filter::Match', 'Set' => { 'X-OTRS-Ignore' => 'yes' }, 'StopAfterMatch' => '0' };</pre>

6.5.20. PostMaster::PreFilterModule###2-Match

Description:	Module to filter and manipulate incoming messages. Get a 4 digit number to ticket free text, use regex in Match e. g. From => '(.+?)@.+?', and use () as [***] in Set =>.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	0

Required:	0
Config-Setting:	<pre>\$Self->{'PostMaster::PreFilterModule'}->{'2-Match'} = { 'Match' => { 'Subject' => 'SomeNumber:(\\d\\d\\d\\d\\d)' }, 'Module' => 'Kernel::System::PostMaster::Filter::Match', 'Set' => { 'X-OTRS-DynamicField-TicketFreeKey1' => 'SomeNumber', 'X-OTRS-DynamicField-TicketFreeText1' => '***' }, 'StopAfterMatch' => '0' };</pre>

6.5.21. PostMaster::PreFilterModule###3-NewTicketReject

Description:	Blocks all the incoming emails that do not have a valid ticket number in subject with From: @example.com address.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'PostMaster::PreFilterModule'}->{'3-NewTicketReject'} = { 'Match' => { 'From' => '@example.com' }, 'Module' => 'Kernel::System::PostMaster::Filter::NewTicketReject', 'Set' => { 'X-OTRS-Ignore' => 'yes' }, 'StopAfterMatch' => '0' };</pre>

6.5.22. PostMaster::PreFilterModule::NewTicketReject::Sender

Description:	Defines the sender for rejected emails.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'PostMaster::PreFilterModule::NewTicketReject::Sender'} = 'noreply@example.com';</pre>

6.5.23. PostMaster::PreFilterModule::NewTicketReject::Subject

Description:	Defines the subject for rejected emails.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'PostMaster::PreFilterModule::NewTicketReject::Subject'} = 'Email Rejected';</pre>

6.5.24. PostMaster::PreFilterModule::NewTicketReject::Body

Description:	Defines the body text for rejected emails.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'PostMaster::PreFilterModule::NewTicketReject::Body'} = ' Dear Customer, Unfortunately we could not detect a valid ticket number in your subject, so this email can\'t be processed. Please create a new ticket via the customer panel. Thanks for your help! Your Helpdesk Team ';</pre>

6.5.25. PostMaster::PreFilterModule###4-CMD

Description:	CMD example setup. Ignores emails where external CMD returns some output on STDOUT (email will be piped into STDIN of some.bin).
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'PostMaster::PreFilterModule'}->{'4-CMD'} = { 'CMD' => '/usr/bin/some.bin', 'Module' => 'Kernel::System::PostMaster::Filter::CMD', 'Set' => { 'X-OTRS-Ignore' => 'yes' } };</pre>

6.5.26. PostMaster::PreFilterModule###5-SpamAssassin

Description:	Spam Assassin example setup. Ignores emails that are marked with SpamAssassin.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'PostMaster::PreFilterModule'}->{'5-SpamAssassin'} = { 'CMD' => '/usr/bin/spamassassin grep -i "X-Spam-Status: yes"', 'Module' => 'Kernel::System::PostMaster::Filter::CMD', 'Set' => { 'X-OTRS-Ignore' => 'yes' } };</pre>

6.5.27. PostMaster::PreFilterModule###6-SpamAssassin

Description:	Spam Assassin example setup. Moves marked mails to spam queue.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'PostMaster::PreFilterModule'}->{'6-SpamAssassin'} = { 'CMD' => '/usr/bin/spamassassin grep -i "X-Spam-Status: yes"', 'Module' => 'Kernel::System::PostMaster::Filter::CMD', 'Set' => { 'X-OTRS-Queue' => 'spam' } };</pre>

6.5.28. PostMaster::PreFilterModule###000-MatchDBSource

Description:	Module to use database filter storage.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'PostMaster::PreFilterModule'}->{'000-MatchDBSource'} = { 'Module' => 'Kernel::System::PostMaster::Filter::MatchDBSource' };</pre>

6.5.29. PostMaster::PostFilterModule###000-FollowUpArticleTypeCheck

Description:	Module to check if arrived emails should be marked as email-internal (because of original forwarded internal email). ArticleType and SenderType define the values for the arrived email/article.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'PostMaster::PostFilterModule'}->{'000-FollowUpArticleTypeCheck'} = { 'ArticleType' => 'email-internal', 'Module' => 'Kernel::System::PostMaster::Filter::FollowUpArticleTypeCheck', 'SenderType' => 'customer' };</pre>

6.5.30. PostMaster::PreFilterModule###000-ExternalTicketNumberRecognition1

Description:	Recognize if a ticket is a follow up to an existing ticket using an external ticket number.
--------------	---

Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	0
Required:	0
Config-Setting:	<pre> \$Self->{'PostMaster::PreFilterModule'}->{'000-ExternalTicketNumberRecognition1'} = { 'ArticleType' => 'note-report', 'DynamicFieldName' => 'Name_X', 'FromAddressRegExp' => '\\s*@example.com', 'Module' => 'Kernel::System::PostMaster::Filter::ExternalTicketNumberRecognition', 'Name' => 'Some Description', 'NumberRegExp' => '\\s*Incident-(\\d.*)\\s*', 'SearchInBody' => '1', 'SearchInSubject' => '1', 'SenderType' => 'system', 'TicketStateTypes' => 'new;open' }; </pre>

6.5.31. PostMaster::PreFilterModule###000-ExternalTicketNumberRecognition2

Description:	Recognize if a ticket is a follow up to an existing ticket using an external ticket number.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	0
Required:	0
Config-Setting:	<pre> \$Self->{'PostMaster::PreFilterModule'}->{'000-ExternalTicketNumberRecognition2'} = { 'ArticleType' => 'note-report', 'DynamicFieldName' => 'Name_X', 'FromAddressRegExp' => '\\s*@example.com', 'Module' => 'Kernel::System::PostMaster::Filter::ExternalTicketNumberRecognition', 'Name' => 'Some Description', 'NumberRegExp' => '\\s*Incident-(\\d.*)\\s*', 'SearchInBody' => '1', 'SearchInSubject' => '1', 'SenderType' => 'system', 'TicketStateTypes' => 'new;open' }; </pre>

6.5.32. PostMaster::PreFilterModule###000-ExternalTicketNumberRecognition3

Description:	Recognize if a ticket is a follow up to an existing ticket using an external ticket number.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	0
Required:	0
Config-Setting:	<pre> \$Self->{'PostMaster::PreFilterModule'}->{'000-ExternalTicketNumberRecognition3'} = { 'ArticleType' => 'note-report', 'DynamicFieldName' => 'Name_X', 'FromAddressRegExp' => '\\s*@example.com', </pre>

	<pre>'Module' => 'Kernel::System::PostMaster::Filter::ExternalTicketNumberRecognition', 'Name' => 'Some Description', 'NumberRegExp' => '\\s*Incident-(\\d.*)\\s*', 'SearchInBody' => '1', 'SearchInSubject' => '1', 'SenderType' => 'system', 'TicketStateTypes' => 'new;open' };</pre>
--	---

6.5.33. PostMaster::PreFilterModule###000-ExternalTicketNumberRecognition4

Description:	Recognize if a ticket is a follow up to an existing ticket using an external ticket number.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'PostMaster::PreFilterModule'}->{'000-ExternalTicketNumberRecognition4'} = { 'ArticleType' => 'note-report', 'DynamicFieldName' => 'Name_X', 'FromAddressRegExp' => '\\s*@example.com', 'Module' => 'Kernel::System::PostMaster::Filter::ExternalTicketNumberRecognition', 'Name' => 'Some Description', 'NumberRegExp' => '\\s*Incident-(\\d.*)\\s*', 'SearchInBody' => '1', 'SearchInSubject' => '1', 'SenderType' => 'system', 'TicketStateTypes' => 'new;open' };</pre>

6.5.34. SendNoAutoResponseRegExp

Description:	If this regex matches, no message will be send by the autoresponder.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'SendNoAutoResponseRegExp'} = '(MAILER-DAEMON postmaster abuse)@.+?\\..+?';</pre>

6.5.35. AutoResponseForWebTickets

Description:	If this option is set to 'Yes', tickets created via the web interface, via Customers or Agents, will receive an autoresponse if configured. If this option is set to 'No', no autoresponses will be sent.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'AutoResponseForWebTickets'} = '1';</pre>

6.6. Core::Stats

6.6.1. Stats::DynamicObjectRegistration###Ticket

Description:	Module to generate ticket statistics.
Group:	Ticket
SubGroup:	Core::Stats
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Stats::DynamicObjectRegistration'}->{'Ticket'} = { 'Module' => 'Kernel::System::Stats::Dynamic::Ticket' };</pre>

6.6.2. Stats::DynamicObjectRegistration###TicketList

Description:	Determines if the statistics module may generate ticket lists.
Group:	Ticket
SubGroup:	Core::Stats
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Stats::DynamicObjectRegistration'}->{'TicketList'} = { 'Module' => 'Kernel::System::Stats::Dynamic::TicketList' };</pre>

6.6.3. Stats::DynamicObjectRegistration###TicketAccountedTime

Description:	Module to generate accounted time ticket statistics.
Group:	Ticket
SubGroup:	Core::Stats
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Stats::DynamicObjectRegistration'}->{'TicketAccountedTime'} = { 'Module' => 'Kernel::System::Stats::Dynamic::TicketAccountedTime' };</pre>

6.6.4. Stats::DynamicObjectRegistration###TicketSolutionResponseTime

Description:	Module to generate ticket solution and response time statistics.
Group:	Ticket
SubGroup:	Core::Stats
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Stats::DynamicObjectRegistration'}->{'TicketSolutionResponseTime'} = { 'Module' => 'Kernel::System::Stats::Dynamic::TicketSolutionResponseTime' };</pre>

6.7. Core::Ticket

6.7.1. Ticket::Hook

Description:	The identifier for a ticket, e.g. Ticket#, Call#, MyTicket#. The default is Ticket#.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Hook'} = 'Ticket#';</code>

6.7.2. Ticket::HookDivider

Description:	The divider between TicketHook and ticket number. E.g ' : '.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::HookDivider'} = '';</code>

6.7.3. Ticket::SubjectSize

Description:	Max size of the subjects in an email reply.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::SubjectSize'} = '100';</code>

6.7.4. Ticket::SubjectRe

Description:	The text at the beginning of the subject in an email reply, e.g. RE, AW, or AS.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::SubjectRe'} = 'Re';</code>

6.7.5. Ticket::SubjectFwd

Description:	The text at the beginning of the subject when an email is forwarded, e.g. FW, Fwd, or WG.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1

Required:	1
Config-Setting:	<code>\$Self->{'Ticket::SubjectFwd'} = 'Fwd';</code>

6.7.6. Ticket::SubjectFormat

Description:	The format of the subject. 'Left' means '[TicketHook#:12345] Some Subject', 'Right' means 'Some Subject [TicketHook#:12345]', 'None' means 'Some Subject' and no ticket number. In the last case you should enable PostmasterFollowupSearchInRaw or PostmasterFollowUpSearchInReferences to recognize followups based on email headers and/or body.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::SubjectFormat'} = 'Left';</code>

6.7.7. Ticket::CustomQueue

Description:	Name of custom queue. The custom queue is a queue selection of your preferred queues and can be selected in the preferences settings.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::CustomQueue'} = 'My Queues';</code>

6.7.8. Ticket::NewArticleIgnoreSystemSender

Description:	Ignore article with system sender type for new article feature (e.g. auto responses or email notifications).
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::NewArticleIgnoreSystemSender'} = '0';</code>

6.7.9. Ticket::ChangeOwnerToEveryone

Description:	Changes the owner of tickets to everyone (useful for ASP). Normally only agent with rw permissions in the queue of the ticket will be shown.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::ChangeOwnerToEveryone'} = '0';</code>

6.7.10. Ticket::**Responsible**

Description:	Enables ticket responsible feature, to keep track of a specific ticket.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Responsible'} = '0';</code>

6.7.11. Ticket::**ResponsibleAutoSet**

Description:	Automatically sets the owner of a ticket as the responsible for it (if ticket responsible feature is enabled).
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::ResponsibleAutoSet'} = '1';</code>

6.7.12. Ticket::**Type**

Description:	Allows defining new types for ticket (if ticket type feature is enabled).
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Type'} = '0';</code>

6.7.13. Ticket::**Service**

Description:	Allows defining services and SLAs for tickets (e. g. email, desktop, network, ...), and escalation attributes for SLAs (if ticket service/SLA feature is enabled).
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Service'} = '0';</code>

6.7.14. Ticket::**Service::Default::UnknownCustomer**

Description:	Allows default services to be selected also for non existing customers.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1

Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Service::Default::UnknownCustomer'} = '0';</code>

6.7.15. Ticket::ArchiveSystem

Description:	Activates the ticket archive system to have a faster system by moving some tickets out of the daily scope. To search for these tickets, the archive flag has to be enabled in the ticket search.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::ArchiveSystem'} = '0';</code>

6.7.16. Ticket::ArchiveSystem::RemoveSeenFlags

Description:	Controls if the ticket and article seen flags are removed when a ticket is archived.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::ArchiveSystem::RemoveSeenFlags'} = '1';</code>

6.7.17. Ticket::ArchiveSystem::RemoveTicketWatchers

Description:	Removes the ticket watcher information when a ticket is archived.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::ArchiveSystem::RemoveTicketWatchers'} = '1';</code>

6.7.18. Ticket::CustomerArchiveSystem

Description:	Activates the ticket archive system search in the customer interface.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::CustomerArchiveSystem'} = '0';</code>

6.7.19. Ticket::NumberGenerator

Description:	Selects the ticket number generator module. "AutoIncrement" increments the ticket number, the SystemID and the counter are used with SystemID.counter format (e.g. 1010138, 1010139).
--------------	---

	With "Date" the ticket numbers will be generated by the current date, the SystemID and the counter. The format looks like Year.Month.Day.SystemID.counter (e.g. 200206231010138, 200206231010139). With "DateChecksum" the counter will be appended as checksum to the string of date and SystemID. The checksum will be rotated on a daily basis. The format looks like Year.Month.Day.SystemID.Counter.CheckSum (e.g. 2002070110101520, 2002070110101535). "Random" generates randomized ticket numbers in the format "SystemID.Random" (e.g. 100057866352, 103745394596).
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::NumberGenerator'} = 'Kernel::System::Ticket::Number::DateChecksum';</code>

6.7.20. Ticket::NumberGenerator::CheckSystemID

Description:	Checks the SystemID in ticket number detection for follow-ups (use "No" if SystemID has been changed after using the system).
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::NumberGenerator::CheckSystemID'} = '1';</code>

6.7.21. Ticket::NumberGenerator::MinCounterSize

Description:	Sets the minimal ticket counter size (if "AutoIncrement" was selected as TicketNumberGenerator). Default is 5, this means the counter starts from 10000.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::NumberGenerator::MinCounterSize'} = '5';</code>

6.7.22. Ticket::NumberGenerator::Date::UseFormattedCounter

Description:	Enables the minimal ticket counter size (if "Date" was selected as TicketNumberGenerator).
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::NumberGenerator::Date::UseFormattedCounter'} = '0';</code>

6.7.23. Ticket::CounterLog

Description:	Log file for the ticket counter.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::CounterLog'} = '<OTRS_CONFIG_Home>/var/log/TicketCounter.log';</code>

6.7.24. Ticket::IndexModule

Description:	IndexAccelerator: to choose your backend TicketViewAccelerator module. "RuntimeDB" generates each queue view on the fly from ticket table (no performance problems up to approx. 60.000 tickets in total and 6.000 open tickets in the system). "StaticDB" is the most powerful module, it uses an extra ticket-index table that works like a view (recommended if more than 80.000 and 6.000 open tickets are stored in the system). Use the script "bin/otrs.RebuildTicketIndex.pl" for initial index update.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::IndexModule'} = 'Kernel::System::Ticket::IndexAccelerator::RuntimeDB';</code>

6.7.25. Ticket::StorageModule

Description:	Saves the attachments of articles. "DB" stores all data in the database (not recommended for storing big attachments). "FS" stores the data on the filesystem; this is faster but the webserver should run under the OTRS user. You can switch between the modules even on a system that is already in production without any loss of data.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::StorageModule'} = 'Kernel::System::Ticket::ArticleStorageDB';</code>

6.7.26. ArticleDir

Description:	Specifies the directory to store the data in, if "FS" was selected for TicketStorageModule.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1

Config-Setting:	<code>\$Self->{'ArticleDir'} = '<OTRS_CONFIG_Home>/var/article';</code>
-----------------	--

6.7.27. Ticket::EventModulePost###100-ArchiveRestore

Description:	Restores a ticket from the archive (only if the event is a state change, from closed to any open available state).
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::EventModulePost'}->{'100-ArchiveRestore'} = { 'Event' => 'TicketStateUpdate', 'Module' => 'Kernel::System::Ticket::Event::ArchiveRestore' };</code>

6.7.28. Ticket::EventModulePost###110-AcceleratorUpdate

Description:	Updates the ticket index accelerator.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::EventModulePost'}->{'110-AcceleratorUpdate'} = { 'Event' => 'TicketStateUpdate TicketQueueUpdate TicketLockUpdate', 'Module' => 'Kernel::System::Ticket::Event::TicketAcceleratorUpdate' };</code>

6.7.29. Ticket::EventModulePost###120-ForceOwnerResetOnMove

Description:	Resets and unlocks the owner of a ticket if it was moved to another queue.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::EventModulePost'}->{'120-ForceOwnerResetOnMove'} = { 'Event' => 'TicketQueueUpdate', 'Module' => 'Kernel::System::Ticket::Event::ForceOwnerReset' };</code>

6.7.30. Ticket::EventModulePost###130-ForceStateChangeOnLock

Description:	Forces to choose a different ticket state (from current) after lock action. Define the current state as key, and the next state after lock action as content.
--------------	---

Group:	Ticket
SubGroup:	Core::Ticket
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::EventModulePost'}->{'130-ForceStateChangeOnLock'} = { 'Event' => 'TicketLockUpdate', 'Module' => 'Kernel::System::Ticket::Event::ForceState', 'new' => 'open' };</pre>

6.7.31. Ticket::EventModulePost###140-ResponsibleAutoSet

Description:	Automatically sets the responsible of a ticket (if it is not set yet) after the first owner update.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::EventModulePost'}->{'140-ResponsibleAutoSet'} = { 'Event' => 'TicketOwnerUpdate', 'Module' => 'Kernel::System::Ticket::Event::ResponsibleAutoSet' };</pre>

6.7.32. Ticket::EventModulePost###150-TicketPendingTimeReset

Description:	Sets the PendingTime of a ticket to 0 if the state is changed to a non-pending state.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::EventModulePost'}->{'150-TicketPendingTimeReset'} = { 'Event' => 'TicketStateUpdate', 'Module' => 'Kernel::System::Ticket::Event::TicketPendingTimeReset' };</pre>

6.7.33. Ticket::EventModulePost###500-Notification-Event

Description:	Sends the notifications which are configured in the admin interface under "Notification (Event)".
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::EventModulePost'}->{'500-NotificationEvent'} = { 'Event' => '', </pre>

	<pre>'Module' => 'Kernel::System::Ticket::Event::NotificationEvent', 'Transaction' => '1' };</pre>
--	--

6.7.34. Ticket::EventModulePost###900-EscalationIndex

Description:	Updates the ticket escalation index after a ticket attribute got updated.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::EventModulePost'}->{'900-EscalationIndex'} = { 'Event' => 'TicketSLAUpdate TicketQueueUpdate TicketStateUpdate TicketCreate ArticleCreate', 'Module' => 'Kernel::System::Ticket::Event::TicketEscalationIndex' };</pre>

6.7.35. Ticket::EventModulePost###900-EscalationStopEvents

Description:	Ticket event module that triggers the escalation stop events.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::EventModulePost'}->{'900-EscalationStopEvents'} = { 'Event' => 'TicketSLAUpdate TicketQueueUpdate TicketStateUpdate ArticleCreate', 'Module' => 'Kernel::System::Ticket::Event::TriggerEscalationStopEvents' };</pre>

6.7.36. Ticket::EventModulePost###910-ForceUnlockOnMove

Description:	Forces to unlock tickets after being moved to another queue.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::EventModulePost'}->{'910-ForceUnlockOnMove'} = { 'Event' => 'TicketQueueUpdate', 'Module' => 'Kernel::System::Ticket::Event::ForceUnlock' };</pre>

6.7.37. Ticket::EventModulePost###920-TicketArticleNewMessageUpdate

Description:	Update Ticket "Seen" flag if every article got seen or a new Article got created.
--------------	---

Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::EventModulePost'}->{'920-TicketArticleNewMessageUpdate'} = { 'Event' => 'ArticleCreate ArticleFlagSet', 'Module' => 'Kernel::System::Ticket::Event::TicketNewMessageUpdate' };</pre>

6.7.38. DynamicFieldFromCustomerUser::Mapping

Description:	Define a mapping between variables of the customer user data (keys) and dynamic fields of a ticket (values). The purpose is to store customer user data in ticket dynamic fields. The dynamic fields must be present in the system and should be enabled for AgentTicketFreeText, so that they can be set/updated manually by the agent. They mustn't be enabled for AgentTicketPhone, AgentTicketEmail and AgentTicketCustomer. If they were, they would have precedence over the automatically set values. To use this mapping, you have to also activate the next setting below.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'DynamicFieldFromCustomerUser::Mapping'} = { 'UserFirstname' => 'CustomerFirstname' };</pre>

6.7.39. Ticket::EventModulePost###930-DynamicFieldFromCustomerUser

Description:	This event module stores attributes from CustomerUser as DynamicFields tickets. Please see the setting above for how to configure the mapping.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::EventModulePost'}->{'930-DynamicFieldFromCustomerUser'} = { 'Event' => '(TicketCreate TicketCustomerUpdate)', 'Module' => 'Kernel::System::Ticket::Event::DynamicFieldFromCustomerUser' };</pre>

6.7.40. Ticket::CustomModule###001-CustomModule

Description:	Overloads (redefines) existing functions in Kernel::System::Ticket. Used to easily add customizations.
Group:	Ticket

SubGroup:	Core::Ticket
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::CustomModule'}->{'001-CustomModule'} = 'Kernel::System::Ticket::Custom';</code>

6.7.41. Ticket::ViewableSenderTypes

Description:	Defines the default viewable sender types of a ticket (default: customer).
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::ViewableSenderTypes'} = ['\customer\'];</code>

6.7.42. Ticket::ViewableLocks

Description:	Defines the viewable locks of a ticket. Default: unlock, tmp_lock.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::ViewableLocks'} = ['\unlock\' , '\tmp_lock\'];</code>

6.7.43. Ticket::ViewableStateType

Description:	Defines the valid state types for a ticket.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::ViewableStateType'} = ['new', 'open', 'pending reminder', 'pending auto'];</code>

6.7.44. Ticket::UnlockStateType

Description:	Defines the valid states for unlocked tickets. To unlock tickets the script "bin/otrs.UnlockTickets.pl" can be used.
Group:	Ticket
SubGroup:	Core::Ticket

Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::UnlockStateType'} = ['new', 'open'];</pre>

6.7.45. Ticket::PendingNotificationOnlyToOwner

Description:	Sends reminder notifications of unlocked ticket after reaching the reminder date (only sent to ticket owner).
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::PendingNotificationOnlyToOwner'} = '0';</pre>

6.7.46. Ticket::PendingNotificationNotToResponsible

Description:	Disables sending reminder notifications to the responsible agent of a ticket (Ticket::Responsible needs to be activated).
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::PendingNotificationNotToResponsible'} = '0';</pre>

6.7.47. Ticket::PendingReminderStateType

Description:	Defines the state type of the reminder for pending tickets.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::PendingReminderStateType'} = ['pending reminder'];</pre>

6.7.48. Ticket::PendingAutoStateType

Description:	Determines the possible states for pending tickets that changed state after reaching time limit.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::PendingAutoStateType'} = ['pending auto'];</pre>

];
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6.7.49. Ticket::StateAfterPending

Description:	Defines which states should be set automatically (Content), after the pending time of state (Key) has been reached.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::StateAfterPending'} = { 'pending auto close+' => 'closed successful', 'pending auto close-' => 'closed unsuccessful' };</pre>

6.7.50. System::Permission

Description:	Standard available permissions for agents within the application. If more permissions are needed, they can be entered here. Permissions must be defined to be effective. Some other good permissions have also been provided built-in: note, close, pending, customer, freetext, move, compose, responsible, forward, and bounce. Make sure that "rw" is always the last registered permission.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'System::Permission'} = ['ro', 'move_into', 'create', 'note', 'owner', 'priority', 'rw'];</pre>

6.7.51. Ticket::Permission###1-OwnerCheck

Description:	Module to check the owner of a ticket.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Permission'}->{'1-OwnerCheck'} = { 'Granted' => '1', 'Module' => 'Kernel::System::Ticket::Permission::OwnerCheck', 'Required' => '0' };</pre>

6.7.52. Ticket::Permission###2-ResponsibleCheck

Description:	Module to check the agent responsible of a ticket.
--------------	--

Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Permission'}->{'2-ResponsibleCheck'} = { 'Granted' => '1', 'Module' => 'Kernel::System::Ticket::Permission::ResponsibleCheck', 'Required' => '0' };</pre>

6.7.53. Ticket::Permission###3-GroupCheck

Description:	Module to check if a user is in a special group. Access is granted, if the user is in the specified group and has ro and rw permissions.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Permission'}->{'3-GroupCheck'} = { 'Granted' => '1', 'Module' => 'Kernel::System::Ticket::Permission::GroupCheck', 'Required' => '0' };</pre>

6.7.54. Ticket::Permission###4-WatcherCheck

Description:	Module to check the watcher agents of a ticket.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Permission'}->{'4-WatcherCheck'} = { 'Granted' => '1', 'Module' => 'Kernel::System::Ticket::Permission::WatcherCheck', 'Required' => '0' };</pre>

6.7.55. CustomerTicket::Permission###1-GroupCheck

Description:	Module to check the group permissions for the access to customer tickets.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerTicket::Permission'}->{'1-GroupCheck'} = { 'Granted' => '0', 'Module' => 'Kernel::System::Ticket::CustomerPermission::GroupCheck', 'Required' => '1' };</pre>

6.7.56. CustomerTicket::Permission###2-CustomerUserIDCheck

Description:	Grants access, if the customer ID of the ticket matches the customer user's ID and the customer user has group permissions on the queue the ticket is in.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerTicket::Permission'}->{'2-CustomerUserIDCheck'} = { 'Granted' => '1', 'Module' => 'Kernel::System::Ticket::CustomerPermission::CustomerUserIDCheck', 'Required' => '0' };</pre>

6.7.57. CustomerTicket::Permission###3-CustomerID-Check

Description:	Module to check customer permissions.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerTicket::Permission'}->{'3-CustomerIDCheck'} = { 'Granted' => '1', 'Module' => 'Kernel::System::Ticket::CustomerPermission::CustomerIDCheck', 'Required' => '0' };</pre>

6.7.58. Ticket::DefineEmailFrom

Description:	Defines how the From field from the emails (sent from answers and email tickets) should look like.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::DefineEmailFrom'} = 'SystemAddressName';</pre>

6.7.59. Ticket::DefineEmailFromSeparator

Description:	Defines the separator between the agents real name and the given queue email address.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1

Required:	1
Config-Setting:	<code>\$Self->{'Ticket::DefineEmailFromSeparator'} = 'via';</code>

6.7.60. CustomerNotifyJustToRealCustomer

Description:	Sends customer notifications just to the mapped customer. Normally, if no customer is mapped, the latest customer sender gets the notification.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerNotifyJustToRealCustomer'} = '0';</code>

6.7.61. AgentSelfNotifyOnAction

Description:	Specifies if an agent should receive email notification of his own actions.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'AgentSelfNotifyOnAction'} = '0';</code>

6.7.62. Ticket::EventModulePost###900-GenericAgent

Description:	Event module registration. For more performance you can define a trigger event (e. g. Event => TicketCreate).
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::EventModulePost'}->{'900-GenericAgent'} = { 'Event' => '', 'Module' => 'Kernel::System::Ticket::Event::GenericAgent', 'Transaction' => '1' };</code>

6.7.63. StandardTemplate::Types

Description:	Defines the list of types for templates.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'StandardTemplate::Types'} = { 'Answer' => 'Answer', 'Create' => 'Create', 'Forward' => 'Forward', 'PhoneCall' => 'Phone call' };</code>

```
};
```

6.8. Core::TicketACL

6.8.1. Ticket::Acl::Module###1-Ticket::Acl::Module

Description:	ACL module that allows closing parent tickets only if all its children are already closed ("State" shows which states are not available for the parent ticket until all child tickets are closed).
Group:	Ticket
SubGroup:	Core::TicketACL
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Acl::Module'}->{'1-Ticket::Acl::Module'} = { 'Module' => 'Kernel::System::Ticket::Acl::CloseParentAfterClosedChilds', 'State' => ['closed successful', 'closed unsuccessful'] };</pre>

6.8.2. TicketACL::Default::Action

Description:	Default ACL values for ticket actions.
Group:	Ticket
SubGroup:	Core::TicketACL
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TicketACL::Default::Action'} = {};</pre>

6.8.3. ACLKeysLevel1Match

Description:	Defines which items are available in first level of the ACL structure.
Group:	Ticket
SubGroup:	Core::TicketACL
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'ACLKeysLevel1Match'} = { 'Properties' => 'Properties', 'PropertiesDatabase' => 'PropertiesDatabase' };</pre>

6.8.4. ACLKeysLevel1Change

Description:	Defines which items are available in first level of the ACL structure.
Group:	Ticket
SubGroup:	Core::TicketACL
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'ACLKeysLevel1Change'} = {</pre>

	<pre>'Possible' => 'Possible', 'PossibleNot' => 'PossibleNot' };</pre>
--	--

6.8.5. ACLKeysLevel2::Possible

Description:	Defines which items are available in second level of the ACL structure.
Group:	Ticket
SubGroup:	Core::TicketACL
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'ACLKeysLevel2::Possible'} = { 'Action' => 'Action', 'ActivityDialog' => 'ActivityDialog', 'Process' => 'Process', 'Ticket' => 'Ticket' };</pre>

6.8.6. ACLKeysLevel2::PossibleNot

Description:	Defines which items are available in second level of the ACL structure.
Group:	Ticket
SubGroup:	Core::TicketACL
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'ACLKeysLevel2::PossibleNot'} = { 'ActivityDialog' => 'ActivityDialog', 'Process' => 'Process', 'Ticket' => 'Ticket' };</pre>

6.8.7. ACLKeysLevel2::Properties

Description:	Defines which items are available in second level of the ACL structure.
Group:	Ticket
SubGroup:	Core::TicketACL
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'ACLKeysLevel2::Properties'} = { 'CustomerUser' => 'CustomerUser', 'DynamicField' => 'DynamicField', 'Frontend' => 'Frontend', 'Owner' => 'Owner', 'Priority' => 'Priority', 'Process' => 'Process', 'Queue' => 'Queue', 'Responsible' => 'Responsible', 'SLA' => 'SLA', 'Service' => 'Service', 'State' => 'State', 'Ticket' => 'Ticket', 'Type' => 'Type', 'User' => 'User' };</pre>

```
};
```

6.8.8. ACLKeysLevel2::PropertiesDatabase

Description:	Defines which items are available in second level of the ACL structure.
Group:	Ticket
SubGroup:	Core::TicketACL
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'ACLKeysLevel2::PropertiesDatabase'} = { 'CustomerUser' => 'CustomerUser', 'DynamicField' => 'DynamicField', 'Owner' => 'Owner', 'Priority' => 'Priority', 'Process' => 'Process', 'Queue' => 'Queue', 'Responsible' => 'Responsible', 'SLA' => 'SLA', 'Service' => 'Service', 'State' => 'State', 'Ticket' => 'Ticket', 'Type' => 'Type', 'User' => 'User' };</pre>

6.8.9. ACLKeysLevel3::Actions###100-Default

Description:	Defines which items are available for 'Action' in third level of the ACL structure.
Group:	Ticket
SubGroup:	Core::TicketACL
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'ACLKeysLevel3::Actions'}->{'100-Default'} = ['AgentTicketBounce', 'AgentTicketClose', 'AgentTicketCompose', 'AgentTicketCustomer', 'AgentTicketForward', 'AgentTicketFreeText', 'AgentTicketHistory', 'AgentTicketLink', 'AgentTicketLock', 'AgentTicketMerge', 'AgentTicketMove', 'AgentTicketNote', 'AgentTicketOwner', 'AgentTicketPending', 'AgentTicketPhone', 'AgentTicketPhoneInbound', 'AgentTicketPhoneOutbound', 'AgentTicketPrint', 'AgentTicketPriority', 'AgentTicketResponsible', 'AgentTicketWatcher', 'AgentTicketZoom', 'AgentLinkObject', 'CustomerTicketMessage', 'CustomerTicketPrint', 'CustomerTicketProcess', 'CustomerTicketZoom'];</pre>

];
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6.8.10. ACL::CacheTTL

Description:	Cache time in seconds for the DB ACL backend.
Group:	Ticket
SubGroup:	Core::TicketACL
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'ACL::CacheTTL'} = '3600';</code>

6.9. Core::TicketBulkAction

6.9.1. Ticket::Frontend::BulkFeature

Description:	Enables ticket bulk action feature for the agent frontend to work on more than one ticket at a time.
Group:	Ticket
SubGroup:	Core::TicketBulkAction
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::BulkFeature'} = '1';</code>

6.9.2. Ticket::Frontend::BulkFeatureGroup

Description:	Enables ticket bulk action feature only for the listed groups.
Group:	Ticket
SubGroup:	Core::TicketBulkAction
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::BulkFeatureGroup'} = ['admin', 'users'];</code>

6.10. Core::TicketDynamicFieldDefault

6.10.1. Ticket::EventModulePost###TicketDynamicFieldDefault

Description:	Event module registration. For more performance you can define a trigger event (e. g. Event => TicketCreate). This is only possible if all Ticket dynamic fields need the same event.
Group:	Ticket
SubGroup:	Core::TicketDynamicFieldDefault
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::EventModulePost'}->{'TicketDynamicFieldDefault'} = {</code>

```
'Module' =>
'Kernel::System::Ticket::Event::TicketDynamicFieldDefault',
'Transaction' => '1'
};
```

6.10.2. Ticket::TicketDynamicFieldDefault###Element1

Description:	Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (http://doc.otrs.org/), chapter "Ticket Event Module".
Group:	Ticket
SubGroup:	Core::TicketDynamicFieldDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element1'} = { 'Event' => 'TicketCreate', 'Name' => 'Field1', 'Value' => 'Default' };</pre>

6.10.3. Ticket::TicketDynamicFieldDefault###Element2

Description:	Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (http://doc.otrs.org/), chapter "Ticket Event Module".
Group:	Ticket
SubGroup:	Core::TicketDynamicFieldDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element2'} = { 'Event' => '', 'Name' => '', 'Value' => '' };</pre>

6.10.4. Ticket::TicketDynamicFieldDefault###Element3

Description:	Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (http://doc.otrs.org/), chapter "Ticket Event Module".
Group:	Ticket
SubGroup:	Core::TicketDynamicFieldDefault
Valid:	0
Required:	0

Config-Setting:	<pre>\$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element3'} = { 'Event' => '', 'Name' => '', 'Value' => '' };</pre>
-----------------	---

6.10.5. Ticket::TicketDynamicFieldDefault###Element4

Description:	Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (http://doc.otrs.org/), chapter "Ticket Event Module".
Group:	Ticket
SubGroup:	Core::TicketDynamicFieldDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element4'} = { 'Event' => '', 'Name' => '', 'Value' => '' };</pre>

6.10.6. Ticket::TicketDynamicFieldDefault###Element5

Description:	Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (http://doc.otrs.org/), chapter "Ticket Event Module".
Group:	Ticket
SubGroup:	Core::TicketDynamicFieldDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element5'} = { 'Event' => '', 'Name' => '', 'Value' => '' };</pre>

6.10.7. Ticket::TicketDynamicFieldDefault###Element6

Description:	Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (http://doc.otrs.org/), chapter "Ticket Event Module".
Group:	Ticket
SubGroup:	Core::TicketDynamicFieldDefault
Valid:	0

Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element6'} = { 'Event' => '', 'Name' => '', 'Value' => '' };</pre>

6.10.8. Ticket::TicketDynamicFieldDefault###Element7

Description:	Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (http://doc.otrs.org/), chapter "Ticket Event Module".
Group:	Ticket
SubGroup:	Core::TicketDynamicFieldDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element7'} = { 'Event' => '', 'Name' => '', 'Value' => '' };</pre>

6.10.9. Ticket::TicketDynamicFieldDefault###Element8

Description:	Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (http://doc.otrs.org/), chapter "Ticket Event Module".
Group:	Ticket
SubGroup:	Core::TicketDynamicFieldDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element8'} = { 'Event' => '', 'Name' => '', 'Value' => '' };</pre>

6.10.10. Ticket::TicketDynamicFieldDefault###Element9

Description:	Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (http://doc.otrs.org/), chapter "Ticket Event Module".
Group:	Ticket
SubGroup:	Core::TicketDynamicFieldDefault

Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element9'} = { 'Event' => '', 'Name' => '', 'Value' => '' };</pre>

6.10.11. Ticket::TicketDynamicFieldDefault###Element10

Description:	Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (http://doc.otrs.org/), chapter "Ticket Event Module".
Group:	Ticket
SubGroup:	Core::TicketDynamicFieldDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element10'} = { 'Event' => '', 'Name' => '', 'Value' => '' };</pre>

6.10.12. Ticket::TicketDynamicFieldDefault###Element11

Description:	Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (http://doc.otrs.org/), chapter "Ticket Event Module".
Group:	Ticket
SubGroup:	Core::TicketDynamicFieldDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element11'} = { 'Event' => '', 'Name' => '', 'Value' => '' };</pre>

6.10.13. Ticket::TicketDynamicFieldDefault###Element12

Description:	Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (http://doc.otrs.org/), chapter "Ticket Event Module".
Group:	Ticket

SubGroup:	Core::TicketDynamicFieldDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element12'} = { 'Event' => '', 'Name' => '', 'Value' => '' };</pre>

6.10.14. Ticket::TicketDynamicFieldDefault###Element13

Description:	Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (http://doc.otrs.org/), chapter "Ticket Event Module".
Group:	Ticket
SubGroup:	Core::TicketDynamicFieldDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element13'} = { 'Event' => '', 'Name' => '', 'Value' => '' };</pre>

6.10.15. Ticket::TicketDynamicFieldDefault###Element14

Description:	Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (http://doc.otrs.org/), chapter "Ticket Event Module".
Group:	Ticket
SubGroup:	Core::TicketDynamicFieldDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element14'} = { 'Event' => '', 'Name' => '', 'Value' => '' };</pre>

6.10.16. Ticket::TicketDynamicFieldDefault###Element15

Description:	Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (http://doc.otrs.org/), chapter "Ticket Event Module".
--------------	--

Group:	Ticket
SubGroup:	Core::TicketDynamicFieldDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element15'} = { 'Event' => '', 'Name' => '', 'Value' => '' };</pre>

6.10.17. Ticket::TicketDynamicFieldDefault###Element16

Description:	Configures a default TicketDynamicField setting. "Name" defines the dynamic field which should be used, "Value" is the data that will be set, and "Event" defines the trigger event. Please check the developer manual (http://doc.otrs.org/), chapter "Ticket Event Module".
Group:	Ticket
SubGroup:	Core::TicketDynamicFieldDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketDynamicFieldDefault'}->{'Element16'} = { 'Event' => '', 'Name' => '', 'Value' => '' };</pre>

6.11. Core::TicketWatcher

6.11.1. Ticket::Watcher

Description:	Enables or disables the ticket watcher feature, to keep track of tickets without being the owner nor the responsible.
Group:	Ticket
SubGroup:	Core::TicketWatcher
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Watcher'} = '0';</pre>

6.11.2. Ticket::WatcherGroup

Description:	Enables ticket watcher feature only for the listed groups.
Group:	Ticket
SubGroup:	Core::TicketWatcher
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::WatcherGroup'} = ['admin', 'users'</pre>

];

6.12. Frontend::Admin

6.12.1. Events###Ticket

Description:	List of all ticket events to be displayed in the GUI.
Group:	Ticket
SubGroup:	Frontend::Admin
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'Events'}->{'Ticket'} = ['TicketCreate', 'TicketDelete', 'TicketTitleUpdate', 'TicketUnlockTimeoutUpdate', 'TicketQueueUpdate', 'TicketTypeUpdate', 'TicketServiceUpdate', 'TicketSLAUpdate', 'TicketCustomerUpdate', 'TicketPendingTimeUpdate', 'TicketLockUpdate', 'TicketArchiveFlagUpdate', 'TicketStateUpdate', 'TicketOwnerUpdate', 'TicketResponsibleUpdate', 'TicketPriorityUpdate', 'HistoryAdd', 'HistoryDelete', 'TicketAccountTime', 'TicketMerge', 'TicketSubscribe', 'TicketUnsubscribe', 'TicketFlagSet', 'TicketFlagDelete', 'TicketSlaveLinkAdd', 'TicketSlaveLinkDelete', 'TicketMasterLinkDelete', 'EscalationResponseTimeNotifyBefore', 'EscalationUpdateTimeNotifyBefore', 'EscalationSolutionTimeNotifyBefore', 'EscalationResponseTimeStart', 'EscalationUpdateTimeStart', 'EscalationSolutionTimeStart', 'EscalationResponseTimeStop', 'EscalationUpdateTimeStop', 'EscalationSolutionTimeStop']; </pre>

6.12.2. Events###Article

Description:	List of all article events to be displayed in the GUI.
Group:	Ticket
SubGroup:	Frontend::Admin
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'Events'}->{'Article'} = ['ArticleCreate', 'ArticleUpdate', 'ArticleSend',]; </pre>

```
'ArticleBounce',
'ArticleAgentNotification',
'ArticleCustomerNotification',
'ArticleAutoResponse',
'ArticleFlagSet',
'ArticleFlagDelete',
'ArticleAgentNotification',
'ArticleCustomerNotification'
];
```

6.13. Frontend::Admin::ModuleRegistration

6.13.1. Frontend::Module###AdminACL

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminACL'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.ACL.css'], 'JavaScript' => ['Core.Agent.Admin.ACL.js'] }, 'NavBarModule' => { 'Block' => 'Ticket', 'Description' => 'Configure and manage ACLs.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Access Control Lists (ACL)', 'Prio' => '750' }, 'NavBarName' => 'Admin', 'Title' => 'Access Control Lists (ACL)' };</pre>

6.13.2. Frontend::Module###AdminQueue

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminQueue'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Queue', 'Description' => 'Create and manage queues.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Queues', 'Prio' => '100' } };</pre>

```

},
'NavBarName' => 'Admin',
'Title' => 'Queues'
};

```

6.13.3. Frontend::Module###AdminTemplate

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'Frontend::Module'}->{'AdminTemplate'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Queue', 'Description' => 'Create and manage templates.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Templates', 'Prio' => '200' }, 'NavBarName' => 'Admin', 'Title' => 'Templates' }; </pre>

6.13.4. Frontend::Module###AdminQueueTemplates

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'Frontend::Module'}->{'AdminQueueTemplates'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Queue', 'Description' => 'Link templates to queues.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Templates <-> Queues', 'Prio' => '300' }, 'NavBarName' => 'Admin', 'Title' => 'Templates <-> Queues' }; </pre>

6.13.5. Frontend::Module###AdminAutoResponse

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0

Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminAutoResponse'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Queue', 'Description' => 'Create and manage responses that are automatically sent.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Auto Responses', 'Prio' => '400' }, 'NavBarName' => 'Admin', 'Title' => 'Auto Responses' }; </pre>
-----------------	---

6.13.6. Frontend::Module###AdminQueueAutoResponse

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminQueueAutoResponse'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Queue', 'Description' => 'Link queues to auto responses.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Auto Responses <-> Queues', 'Prio' => '500' }, 'NavBarName' => 'Admin', 'Title' => 'Auto Responses <-> Queues' }; </pre>

6.13.7. Frontend::Module###AdminAttachment

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminAttachment'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Queue', 'Description' => 'Create and manage attachments.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Attachments', 'Prio' => '600' }, 'NavBarName' => 'Admin', }; </pre>

```
'Title' => 'Attachments'
};
```

6.13.8. Frontend::Module###AdminTemplateAttachment

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminTemplateAttachment'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Queue', 'Description' => 'Link attachments to templates.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Attachments <-> Templates', 'Prio' => '700' }, 'NavBarName' => 'Admin', 'Title' => 'Attachments <-> Templates' };</pre>

6.13.9. Frontend::Module###AdminSalutation

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminSalutation'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Queue', 'Description' => 'Create and manage salutations.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Salutations', 'Prio' => '800' }, 'NavBarName' => 'Admin', 'Title' => 'Salutations' };</pre>

6.13.10. Frontend::Module###AdminSignature

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0

Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminSignature'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Queue', 'Description' => 'Create and manage signatures.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Signatures', 'Prio' => '900' }, 'NavBarName' => 'Admin', 'Title' => 'Signatures' }; </pre>
-----------------	---

6.13.11. Frontend::Module###AdminSystemAddress

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminSystemAddress'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Email', 'Description' => 'Set sender email addresses for this system.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Email Addresses', 'Prio' => '300' }, 'NavBarName' => 'Admin', 'Title' => 'Email Addresses' }; </pre>

6.13.12. Frontend::Module###AdminNotification

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminNotification'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Ticket', 'Description' => 'Manage notifications that are sent to agents.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Agent Notifications', 'Prio' => '400' }, 'NavBarName' => 'Admin', 'Title' => 'Agent Notifications' }; </pre>

6.13.13. Frontend::Module###AdminNotificationEvent

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminNotificationEvent'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Ticket', 'Description' => 'Create and manage event based notifications.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Notifications (Event)', 'Prio' => '400' }, 'NavBarName' => 'Admin', 'Title' => 'Notifications (Event)' };</pre>

6.13.14. Frontend::Module###AdminService

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminService'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Ticket', 'Description' => 'Create and manage services.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Services', 'Prio' => '900' }, 'NavBarName' => 'Admin', 'Title' => 'Services' };</pre>

6.13.15. Frontend::Module###AdminSLA

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminSLA'} = { 'Description' => 'Admin', 'Group' => ['admin'], };</pre>

	<pre>'NavBarModule' => { 'Block' => 'Ticket', 'Description' => 'Create and manage Service Level Agreements (SLAs).', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Service Level Agreements', 'Prio' => '1000' }, 'NavBarName' => 'Admin', 'Title' => 'Service Level Agreements' };</pre>
--	---

6.13.16. Frontend::Module###AdminType

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminType'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Ticket', 'Description' => 'Create and manage ticket types.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Types', 'Prio' => '700' }, 'NavBarName' => 'Admin', 'Title' => 'Types' };</pre>

6.13.17. Frontend::Module###AdminState

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AdminState'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Ticket', 'Description' => 'Create and manage ticket states.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'States', 'Prio' => '800' }, 'NavBarName' => 'Admin', 'Title' => 'States' };</pre>

6.13.18. Frontend::Module###AdminPriority

Description:	Frontend module registration for the agent interface.
--------------	---

Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminPriority'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Ticket', 'Description' => 'Create and manage ticket priorities.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Priorities', 'Prio' => '850' }, 'NavBarName' => 'Admin', 'Title' => 'Priorities' }; </pre>

6.13.19. Frontend::Module###AdminGenericAgent

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminGenericAgent'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'JavaScript' => ['Core.Agent.Admin.GenericAgent.js'] }, 'NavBarModule' => { 'Block' => 'System', 'Description' => 'Manage tasks triggered by event or time based execution.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'GenericAgent', 'Prio' => '300' }, 'NavBarName' => 'Admin', 'Title' => 'GenericAgent' }; </pre>

6.14. Frontend::Agent

6.14.1. Ticket::Frontend::PendingDiffTime

Description:	Time in seconds that gets added to the actual time if setting a pending-state (default: 86400 = 1 day).
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1

Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::PendingDiffTime'} = '86400';</code>

6.14.2. Ticket::Frontend::MaxQueueLevel

Description:	Define the max depth of queues.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::MaxQueueLevel'} = '5';</code>

6.14.3. Ticket::Frontend::ListType

Description:	Shows existing parent/child queue lists in the system in the form of a tree or a list.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::ListType'} = 'tree';</code>

6.14.4. Ticket::Frontend::TextAreaEmail

Description:	Permitted width for compose email windows.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::TextAreaEmail'} = '82';</code>

6.14.5. Ticket::Frontend::TextAreaNote

Description:	Permitted width for compose note windows.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::TextAreaNote'} = '78';</code>

6.14.6. Ticket::Frontend::InformAgentMaxSize

Description:	Max size (in rows) of the informed agents box in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1

Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::InformAgentMaxSize'} = '3';</code>

6.14.7. Ticket::Frontend::InvolvedAgentMaxSize

Description:	Max size (in rows) of the involved agents box in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::InvolvedAgentMaxSize'} = '3';</code>

6.14.8. Ticket::Frontend::CustomerInfoCompose

Description:	Shows the customer user information (phone and email) in the compose screen.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerInfoCompose'} = '1';</code>

6.14.9. Ticket::Frontend::CustomerInfoComposeMaxSize

Description:	Max size (in characters) of the customer information table (phone and email) in the compose screen.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerInfoComposeMaxSize'} = '22';</code>

6.14.10. Ticket::Frontend::CustomerInfoZoom

Description:	Shows the customer user's info in the ticket zoom view.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerInfoZoom'} = '1';</code>

6.14.11. Ticket::Frontend::CustomerInfoZoomMaxSize

Description:	Maximum size (in characters) of the customer information table in the ticket zoom view.
--------------	---

Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerInfoZoomMaxSize'} = '22';</code>

6.14.12. Ticket::Frontend::DynamicFieldsZoom- MaxSizeSidebar

Description:	Maximum length (in characters) of the dynamic field in the sidebar of the ticket zoom view.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::DynamicFieldsZoomMaxSizeSidebar'} = '18';</code>

6.14.13. Ticket::Frontend::DynamicFieldsZoom- MaxSizeArticle

Description:	Maximum length (in characters) of the dynamic field in the article of the ticket zoom view.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::DynamicFieldsZoomMaxSizeArticle'} = '160';</code>

6.14.14. Ticket::Frontend::AccountTime

Description:	Activates time accounting.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AccountTime'} = '1';</code>

6.14.15. Ticket::Frontend::TimeUnits

Description:	Sets the preferred time units (e.g. work units, hours, minutes).
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::TimeUnits'} = '(work units)';</code>

6.14.16. Ticket::Frontend::NeedAccountedTime

Description:	Defines if time accounting is mandatory in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::NeedAccountedTime'} = '0';</code>

6.14.17. Ticket::Frontend::BulkAccountedTime

Description:	Defines if time accounting must be set to all tickets in bulk action.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::BulkAccountedTime'} = '1';</code>

6.14.18. Ticket::Frontend::NeedSpellCheck

Description:	Defines if composed messages have to be spell checked in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::NeedSpellCheck'} = '0';</code>

6.14.19. Ticket::Frontend::NewOwnerSelection

Description:	Shows an owner selection in phone and email tickets in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::NewOwnerSelection'} = '1';</code>

6.14.20. Ticket::Frontend::NewResponsibleSelection

Description:	Show a responsible selection in phone and email tickets in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1

Config-Setting:	<code>\$Self->{'Ticket::Frontend::NewResponsibleSelection'} = '1';</code>
-----------------	--

6.14.21. Ticket::Frontend::NewQueueSelectionType

Description:	Defines the receipt target of the phone ticket and the sender of the email ticket ("Queue" shows all queues, "SystemAddress" displays all system addresses) in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::NewQueueSelectionType'} = 'Queue';</code>

6.14.22. Ticket::Frontend::NewQueueSelectionString

Description:	Determines the strings that will be shown as receipt (To:) of the phone ticket and as sender (From:) of the email ticket in the agent interface. For Queue as NewQueueSelectionType "<Queue>" shows the names of the queues and for SystemAddress "<Realname> <<Email>>" shows the name and email of the receipt.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::NewQueueSelectionString'} = '<Queue>';</code>

6.14.23. Ticket::Frontend::NewQueueOwnSelection

Description:	Determines which options will be valid of the receipt (phone ticket) and the sender (email ticket) in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::NewQueueOwnSelection'} = { '1' => 'First Queue!', '2' => 'Second Queue!' };</code>

6.14.24. Ticket::Frontend::ShowCustomerTickets

Description:	Shows customer history tickets in AgentTicketPhone, AgentTicketEmail and AgentTicketCustomer.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::ShowCustomerTickets'} = '1';</code>

6.14.25. NewTicketInNewWindow::Enabled

Description:	If enabled, TicketPhone and TicketEmail will be open in new windows.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'NewTicketInNewWindow::Enabled'} = '0';</code>

6.14.26. CustomerDBLink

Description:	Defines an external link to the database of the customer (e.g. 'http://yourhost/customer.php?CID=\$Data{"CustomerID"}' or ").
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerDBLink'} = '\$Env{"CGIHandle"}?Action=AgentCustomerInformationCenter;CustomerID=\$LQData{"CustomerID"}';</code>

6.14.27. CustomerDBLinkTarget

Description:	Defines the target attribute in the link to external customer database. E.g. 'target="cdb"'.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerDBLinkTarget'} = '';</code>

6.14.28. CustomerDBLinkClass

Description:	Defines the target attribute in the link to external customer database. E.g. 'AsPopup PopupType_TicketAction'.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerDBLinkClass'} = '';</code>

6.14.29. Frontend::CommonObject###QueueObject

Description:	Path of the file that stores all the settings for the QueueObject object for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent

Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Frontend::CommonObject'}->{'QueueObject'} = 'Kernel::System::Queue';</code>

6.14.30. Frontend::CommonObject###TicketObject

Description:	Path of the file that stores all the settings for the TicketObject for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Frontend::CommonObject'}->{'TicketObject'} = 'Kernel::System::Ticket';</code>

6.14.31. Frontend::CommonParam###Action

Description:	Defines the default used Frontend-Module if no Action parameter given in the url on the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Frontend::CommonParam'}->{'Action'} = 'AgentDashboard';</code>

6.14.32. Frontend::CommonParam###QueueID

Description:	Default queue ID used by the system in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Frontend::CommonParam'}->{'QueueID'} = '0';</code>

6.14.33. Frontend::CommonParam###TicketID

Description:	Default ticket ID used by the system in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Frontend::CommonParam'}->{'TicketID'} = '';</code>

6.14.34. DefaultOverviewColumns

Description:	General ticket data shown in the ticket overviews (fall-back). Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.
--------------	--

	Note that TicketNumber can not be disabled, because it is necessary.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<pre> \$self->{'DefaultOverviewColumns'} = { 'Age' => '2', 'Changed' => '1', 'CustomerID' => '2', 'CustomerName' => '1', 'CustomerUserID' => '1', 'EscalationResponseTime' => '1', 'EscalationSolutionTime' => '1', 'EscalationTime' => '1', 'EscalationUpdateTime' => '1', 'Lock' => '2', 'Owner' => '2', 'PendingTime' => '1', 'Priority' => '1', 'Queue' => '2', 'Responsible' => '1', 'SLA' => '1', 'Service' => '1', 'State' => '2', 'TicketNumber' => '2', 'Title' => '2', 'Type' => '1' }; </pre>

6.15. Frontend::Agent::Dashboard

6.15.1. DashboardBackend###0100-TicketPendingReminder

Description:	Parameters for the dashboard backend of the ticket pending reminder overview of the agent interface . "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed for DefaultColumns. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'DashboardBackend'}->{'0100-TicketPendingReminder'} = { 'Attributes' => 'TicketPendingTimeOlderMinutes=1;StateType=pending reminder;SortBy=PendingTime;OrderBy=Down;', 'Block' => 'ContentLarge', 'CacheTTLLocal' => '0.5', 'Default' => '1', 'DefaultColumns' => { 'Age' => '2', 'Changed' => '1', 'CustomerID' => '1', 'CustomerName' => '1', 'CustomerUserID' => '1', </pre>

```

'EscalationResponseTime' => '1',
'EscalationSolutionTime' => '1',
'EscalationTime' => '1',
'EscalationUpdateTime' => '1',
'Lock' => '1',
'Owner' => '1',
'PendingTime' => '1',
'Priority' => '1',
'Queue' => '1',
'Responsible' => '1',
'SLA' => '1',
'Service' => '1',
'State' => '1',
'TicketNumber' => '2',
'Title' => '2',
'Type' => '1'
},
'Description' => 'All tickets with a reminder set where the
reminder date has been reached',
'Filter' => 'Locked',
'Group' => '',
'Limit' => '10',
'Module' => 'Kernel::Output::HTML::DashboardTicketGeneric',
'Permission' => 'rw',
'Time' => 'UntilTime',
'Title' => 'Reminder Tickets'
};

```

6.15.2. DashboardBackend###0110-TicketEscalation

Description:	Parameters for the dashboard backend of the ticket escalation overview of the agent interface . "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin. Note: Only Ticket attributes and Dynamic Fields (Dynamic-Field_NameX) are allowed for DefaultColumns. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'DashboardBackend'}->{'0110-TicketEscalation'} = { 'Attributes' => 'TicketEscalationTimeOlderMinutes=1;SortBy=EscalationTime;OrderBy=Down;', 'Block' => 'ContentLarge', 'CacheTTLLocal' => '0.5', 'Default' => '1', 'DefaultColumns' => { 'Age' => '2', 'Changed' => '1', 'CustomerID' => '1', 'CustomerName' => '1', 'CustomerUserID' => '1', 'EscalationResponseTime' => '1', 'EscalationSolutionTime' => '1', 'EscalationTime' => '1', 'EscalationUpdateTime' => '1', 'Lock' => '1', 'Owner' => '1', 'PendingTime' => '1', 'Priority' => '1', 'Queue' => '1', 'Responsible' => '1', 'SLA' => '1', </pre>

```

    'Service' => '1',
    'State' => '1',
    'TicketNumber' => '2',
    'Title' => '2',
    'Type' => '1'
  },
  'Description' => 'All escalated tickets',
  'Filter' => 'All',
  'Group' => '',
  'Limit' => '10',
  'Module' => 'Kernel::Output::HTML::DashboardTicketGeneric',
  'Permission' => 'rw',
  'Time' => 'EscalationTime',
  'Title' => 'Escalated Tickets'
};

```

6.15.3. DashboardBackend###0120-TicketNew

Description:	Parameters for the dashboard backend of the new tickets overview of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed for DefaultColumns. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'DashboardBackend'}->{'0120-TicketNew'} = { 'Attributes' => 'StateType=new;', 'Block' => 'ContentLarge', 'CacheTTLLocal' => '0.5', 'Default' => '1', 'DefaultColumns' => { 'Age' => '2', 'Changed' => '1', 'CustomerID' => '1', 'CustomerName' => '1', 'CustomerUserID' => '1', 'EscalationResponseTime' => '1', 'EscalationSolutionTime' => '1', 'EscalationTime' => '1', 'EscalationUpdateTime' => '1', 'Lock' => '1', 'Owner' => '1', 'PendingTime' => '1', 'Priority' => '1', 'Queue' => '1', 'Responsible' => '1', 'SLA' => '1', 'Service' => '1', 'State' => '1', 'TicketNumber' => '2', 'Title' => '2', 'Type' => '1' }, 'Description' => 'All new tickets, these tickets have not been worked on yet', 'Filter' => 'All', 'Group' => '', 'Limit' => '10', 'Module' => 'Kernel::Output::HTML::DashboardTicketGeneric', 'Permission' => 'rw', </pre>

```
'Time' => 'Age',
'Title' => 'New Tickets'
};
```

6.15.4. DashboardBackend###0130-TicketOpen

Description:	Parameters for the dashboard backend of the ticket pending reminder overview of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed for DefaultColumns. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'DashboardBackend'}->{'0130-TicketOpen'} = { 'Attributes' => 'StateType=open;', 'Block' => 'ContentLarge', 'CacheTTLLocal' => '0.5', 'Default' => '1', 'DefaultColumns' => { 'Age' => '2', 'Changed' => '1', 'CustomerID' => '1', 'CustomerName' => '1', 'CustomerUserID' => '1', 'EscalationResponseTime' => '1', 'EscalationSolutionTime' => '1', 'EscalationTime' => '1', 'EscalationUpdateTime' => '1', 'Lock' => '1', 'Owner' => '1', 'PendingTime' => '1', 'Priority' => '1', 'Queue' => '1', 'Responsible' => '1', 'SLA' => '1', 'Service' => '1', 'State' => '1', 'TicketNumber' => '2', 'Title' => '2', 'Type' => '1' }, 'Description' => 'All open tickets, these tickets have already been worked on, but need a response', 'Filter' => 'All', 'Group' => '', 'Limit' => '10', 'Module' => 'Kernel::Output::HTML::DashboardTicketGeneric', 'Permission' => 'rw', 'Time' => 'Age', 'Title' => 'Open Tickets / Need to be answered' };</pre>

6.15.5. DashboardBackend###0250-TicketStats

Description:	Parameters for the dashboard backend of the ticket stats of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group:
--------------	--

	admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'DashboardBackend'}->{'0250-TicketStats'} = { 'Block' => 'ContentSmall', 'CacheTTL' => '30', 'Changed' => '1', 'Closed' => '1', 'Default' => '1', 'Group' => '', 'Module' => 'Kernel::Output::HTML::DashboardTicketStatsGeneric', 'Permission' => 'rw', 'Title' => '7 Day Stats' };</pre>

6.15.6. DashboardBackend###0260-TicketCalendar

Description:	Parameters for the dashboard backend of the ticket calendar of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'DashboardBackend'}->{'0260-TicketCalendar'} = { 'Block' => 'ContentSmall', 'CacheTTL' => '2', 'Default' => '1', 'Group' => '', 'Limit' => '6', 'Module' => 'Kernel::Output::HTML::DashboardCalendar', 'OwnerOnly' => '', 'Permission' => 'rw', 'Title' => 'Upcoming Events' };</pre>

6.15.7. DashboardBackend###0270-TicketQueueOverview

Description:	Parameters for the dashboard backend of the queue overview widget of the agent interface. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "QueuePermissionGroup" is not mandatory, queues are only listed if they belong to this permission group if you enable it. "States" is a list of states, the key is the sort order of the state in the widget. "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin.
Group:	Ticket

SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'DashboardBackend'}->{'0270-TicketQueueOverview'} = { 'Block' => 'ContentLarge', 'CacheTTLLocal' => '0.5', 'Default' => '1', 'Description' => 'Provides a matrix overview of the tickets per state per queue.', 'Group' => '', 'Module' => 'Kernel::Output::HTML::DashboardTicketQueueOverview', 'Permission' => 'rw', 'QueuePermissionGroup' => 'users', 'Sort' => 'SortBy=Age;OrderBy=Up', 'States' => { '1' => 'new', '4' => 'open', '6' => 'pending reminder' }, 'Title' => 'Ticket Queue Overview' }; </pre>

6.15.8. DashboardBackend###0280-DashboardEventsTicketCalendar

Description:	Parameters for the dashboard backend of the ticket stats of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'DashboardBackend'}->{'0280-DashboardEventsTicketCalendar'} = { 'Block' => 'ContentLarge', 'CacheTTL' => '0', 'Default' => '0', 'Group' => '', 'Module' => 'Kernel::Output::HTML::DashboardEventsTicketCalendar', 'Title' => 'Events Ticket Calendar' }; </pre>

6.15.9. AgentCustomerInformationCenter::Backend###0100-CIC-TicketPendingReminder

Description:	Parameters for the dashboard backend of the ticket pending reminder overview of the agent interface . "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed for DefaultColumns. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.
Group:	Ticket

SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'AgentCustomerInformationCenter::Backend'}->{'0100-CIC-TicketPendingReminder'} = { 'Attributes' => 'TicketPendingTimeOlderMinutes=1;StateType=pending reminder;SortBy=PendingTime;OrderBy=Down;', 'Block' => 'ContentLarge', 'CacheTTLLocal' => '0.5', 'Default' => '1', 'DefaultColumns' => { 'Age' => '2', 'Changed' => '1', 'CustomerID' => '1', 'CustomerName' => '1', 'CustomerUserID' => '1', 'EscalationResponseTime' => '1', 'EscalationSolutionTime' => '1', 'EscalationTime' => '1', 'EscalationUpdateTime' => '1', 'Lock' => '1', 'Owner' => '1', 'PendingTime' => '1', 'Priority' => '1', 'Queue' => '1', 'Responsible' => '1', 'SLA' => '1', 'Service' => '1', 'State' => '1', 'TicketNumber' => '2', 'Title' => '2', 'Type' => '1' }, 'Description' => 'All tickets with a reminder set where the reminder date has been reached', 'Filter' => 'Locked', 'Group' => '', 'Limit' => '10', 'Module' => 'Kernel::Output::HTML::DashboardTicketGeneric', 'Permission' => 'ro', 'Time' => 'UntilTime', 'Title' => 'Reminder Tickets' }; </pre>

6.15.10. AgentCustomerInformationCenter::Backend###0110-CIC-TicketEscalation

Description:	Parameters for the dashboard backend of the ticket escalation overview of the agent interface . "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed for DefaultColumns. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'AgentCustomerInformationCenter::Backend'}->{'0110-CIC-TicketEscalation'} = { </pre>

```
'Attributes' =>
'TicketEscalationTimeOlderMinutes=1;SortBy=EscalationTime;OrderBy=Down;',
'Block' => 'ContentLarge',
'CacheTTLLocal' => '0.5',
'Default' => '1',
'DefaultColumns' => {
  'Age' => '2',
  'Changed' => '1',
  'CustomerID' => '1',
  'CustomerName' => '1',
  'CustomerUserID' => '1',
  'EscalationResponseTime' => '1',
  'EscalationSolutionTime' => '1',
  'EscalationTime' => '1',
  'EscalationUpdateTime' => '1',
  'Lock' => '1',
  'Owner' => '1',
  'PendingTime' => '1',
  'Priority' => '1',
  'Queue' => '1',
  'Responsible' => '1',
  'SLA' => '1',
  'Service' => '1',
  'State' => '1',
  'TicketNumber' => '2',
  'Title' => '2',
  'Type' => '1'
},
'Description' => 'All escalated tickets',
'Filter' => 'All',
'Group' => '',
'Limit' => '10',
'Module' => 'Kernel::Output::HTML::DashboardTicketGeneric',
'Permission' => 'ro',
'Time' => 'EscalationTime',
'Title' => 'Escalated Tickets'
};
```

6.15.11. AgentCustomerInformationCenter::Backend###0120-CIC-TicketNew

Description:	Parameters for the dashboard backend of the new tickets overview of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed for DefaultColumns. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'AgentCustomerInformationCenter::Backend'}->{'0120-CIC-TicketNew'} = { 'Attributes' => 'StateType=new;', 'Block' => 'ContentLarge', 'CacheTTLLocal' => '0.5', 'Default' => '1', 'DefaultColumns' => { 'Age' => '2', 'Changed' => '1', 'CustomerID' => '1', 'CustomerName' => '1',</pre>

```

'CustomerUserID' => '1',
'EscalationResponseTime' => '1',
'EscalationSolutionTime' => '1',
'EscalationTime' => '1',
'EscalationUpdateTime' => '1',
'Lock' => '1',
'Owner' => '1',
'PendingTime' => '1',
'Priority' => '1',
'Queue' => '1',
'Responsible' => '1',
'SLA' => '1',
'Service' => '1',
'State' => '1',
'TicketNumber' => '2',
'Title' => '2',
'Type' => '1'
},
'Description' => 'All new tickets, these tickets have not been
worked on yet',
'Filter' => 'All',
'Group' => '',
'Limit' => '10',
'Module' => 'Kernel::Output::HTML::DashboardTicketGeneric',
'Permission' => 'ro',
'Time' => 'Age',
'Title' => 'New Tickets'
};

```

6.15.12. AgentCustomerInformationCenter::Backend###0130-CIC-TicketOpen

Description:	Parameters for the dashboard backend of the ticket pending reminder overview of the agent interface. "Limit" is the number of entries shown by default. "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed for DefaultColumns. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'AgentCustomerInformationCenter::Backend'}->{'0130-CIC-TicketOpen'} = { 'Attributes' => 'StateType=open;', 'Block' => 'ContentLarge', 'CacheTTLLocal' => '0.5', 'Default' => '1', 'DefaultColumns' => { 'Age' => '2', 'Changed' => '1', 'CustomerID' => '1', 'CustomerName' => '1', 'CustomerUserID' => '1', 'EscalationResponseTime' => '1', 'EscalationSolutionTime' => '1', 'EscalationTime' => '1', 'EscalationUpdateTime' => '1', 'Lock' => '1', 'Owner' => '1', 'PendingTime' => '1', 'Priority' => '1', </pre>

```

'Queue' => '1',
'Responsible' => '1',
'SLA' => '1',
'Service' => '1',
'State' => '1',
'TicketNumber' => '2',
'Title' => '2',
'Type' => '1'
},
'Description' => 'All open tickets, these tickets have already
been worked on, but need a response',
'Filter' => 'All',
'Group' => '',
'Limit' => '10',
'Module' => 'Kernel::Output::HTML::DashboardTicketGeneric',
'Permission' => 'ro',
'Time' => 'Age',
'Title' => 'Open Tickets / Need to be answered'
};

```

6.15.13. AgentCustomerInformationCenter::Backend###0500-CIC-CustomerIDStatus

Description:	Parameters for the dashboard backend of the customer id status widget of the agent interface . "Group" is used to restrict the access to the plugin (e. g. Group: admin;group1;group2;). "Default" determines if the plugin is enabled by default or if the user needs to enable it manually. "CacheTTLLocal" is the cache time in minutes for the plugin.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'AgentCustomerInformationCenter::Backend'}->{'0500-CIC-CustomerIDStatus'} = { 'Attributes' => '', 'Block' => 'ContentSmall', 'CacheTTLLocal' => '0.5', 'Default' => '1', 'Description' => 'Company Status', 'Group' => '', 'Module' => 'Kernel::Output::HTML::DashboardCustomerIDStatus', 'Permission' => 'ro', 'Title' => 'Company Status' }; </pre>

6.16. Frontend::Agent::Dashboard::Event-sTicketCalendar

6.16.1. DashboardEventsTicketCalendar###Calendar-Width

Description:	Defines the calendar width in percent. Default is 95%.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard::EventsTicketCalendar
Valid:	1
Required:	1

Config-Setting:	<code>\$Self->{'DashboardEventsTicketCalendar'}->{'CalendarWidth'} = '95';</code>
-----------------	---

6.16.2. DashboardEventsTicketCalendar###Queues

Description:	Defines queues that's tickets are used for displaying as calendar events.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard::EventsTicketCalendar
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'DashboardEventsTicketCalendar'}->{'Queues'} = ['Raw'];</code>

6.16.3. DashboardEventsTicketCalendar::DynamicFieldStartTime

Description:	Define dynamic field name for start time. This field has to be manually added to the system as Ticket: "Date / Time" and must be activated in ticket creation screens and/or in any other ticket action screens.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard::EventsTicketCalendar
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'DashboardEventsTicketCalendar::DynamicFieldStartTime'} = 'TicketCalendarStartTime';</code>

6.16.4. DashboardEventsTicketCalendar::DynamicFieldEndTime

Description:	Define dynamic field name for end time. This field has to be manually added to the system as Ticket: "Date / Time" and must be activated in ticket creation screens and/or in any other ticket action screens.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard::EventsTicketCalendar
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'DashboardEventsTicketCalendar::DynamicFieldEndTime'} = 'TicketCalendarEndTime';</code>

6.16.5. DashboardEventsTicketCalendar::DynamicFieldsForEvents

Description:	Defines the dynamic fields that are used for displaying on calendar events.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard::EventsTicketCalendar

Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'DashboardEventsTicketCalendar::DynamicFieldsForEvents'} = ['TicketCalendarStartTime', 'TicketCalendarEndTime'];</pre>

6.16.6. DashboardEventsTicketCalendar::TicketFieldsForEvents

Description:	Defines the ticket fields that are going to be displayed calendar events. The "Key" defines the field or ticket attribute and the "Content" defines the display name.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard::EventsTicketCalendar
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'DashboardEventsTicketCalendar::TicketFieldsForEvents'} = { 'CustomerID' => 'Customer ID', 'CustomerUserID' => 'Customer user', 'Priority' => 'Priority', 'Queue' => 'Queue', 'SLA' => 'SLA', 'Service' => 'Service', 'State' => 'State', 'Title' => 'Title', 'Type' => 'Type' };</pre>

6.17. Frontend::Agent::Dashboard::TicketFilters

6.17.1. OnlyValuesOnTicket

Description:	Defines if the list for filters should be retrieve just from current tickets in system. Just for clarification, Customers list will always came from system's tickets.
Group:	Ticket
SubGroup:	Frontend::Agent::Dashboard::TicketFilters
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'OnlyValuesOnTicket'} = '1';</pre>

6.18. Frontend::Agent::ModuleMetaHead

6.18.1. Frontend::HeaderMetaModule###2-TicketSearch

Description:	Module to generate html OpenSearch profile for short ticket search in the agent interface.
--------------	--

Group:	Ticket
SubGroup:	Frontend::Agent::ModuleMetaHead
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::HeaderMetaModule'}->{'2-TicketSearch'} = { 'Action' => 'AgentTicketSearch', 'Module' => 'Kernel::Output::HTML::HeaderMetaTicketSearch' };</pre>

6.19. Frontend::Agent::ModuleNotify

6.19.1. Frontend::NotifyModule###5-Ticket::TicketEscalation

Description:	Module to show notifications and escalations (ShownMax: max. shown escalations, EscalationInMinutes: Show ticket which will escalation in, CacheTime: Cache of calculated escalations in seconds).
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleNotify
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::NotifyModule'}->{'5-Ticket::TicketEscalation'} = { 'CacheTime' => '40', 'EscalationInMinutes' => '120', 'Module' => 'Kernel::Output::HTML::NotificationAgentTicketEscalation', 'ShownMax' => '25' };</pre>

6.20. Frontend::Agent::ModuleRegistration

6.20.1. Frontend::Module###AgentTicketQueue

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketQueue'} = { 'Description' => 'Overview of all open Tickets', 'Loader' => { 'CSS' => ['Core.AgentTicketQueue.css', 'Core.AllocationList.css'], 'JavaScript' => ['Core.UI.AllocationList.js', 'Core.Agent.TableFilters.js'] }, 'NavBar' => [{ 'AccessKey' => 'o', </pre>

```

'Block' => '',
'Description' => 'Overview of all open Tickets',
'Link' => 'Action=AgentTicketQueue',
'LinkOption' => '',
'Name' => 'Queue view',
'NavBar' => 'Ticket',
'Prio' => '100',
'Type' => ''
},
{
'AccessKey' => 't',
'Block' => 'ItemArea',
'Description' => '',
'Link' => 'Action=AgentTicketQueue',
'LinkOption' => '',
'Name' => 'Tickets',
'NavBar' => 'Ticket',
'Prio' => '200',
'Type' => 'Menu'
}
],
'NavBarName' => 'Ticket',
'Title' => 'QueueView'
};

```

6.20.2. Frontend::Module###AgentTicketPhone

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'Frontend::Module'}->{'AgentTicketPhone'} = { 'Description' => 'Create new phone ticket', 'Loader' => { 'JavaScript' => ['Core.Agent.CustomerSearch.js', 'Core.Agent.TicketAction.js'] }, 'NavBar' => [{ 'AccessKey' => 'n', 'Block' => '', 'Description' => 'Create new phone ticket (inbound)', 'Link' => 'Action=AgentTicketPhone', 'LinkOption' => '', 'Name' => 'New phone ticket', 'NavBar' => 'Ticket', 'Prio' => '200', 'Type' => '' }] }, 'NavBarName' => 'Ticket', 'Title' => 'New phone ticket' }; </pre>

6.20.3. Frontend::Module###AgentTicketPhoneOutbound

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration

Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketPhoneOutbound'} = { 'Description' => 'Phone Call', 'Loader' => { 'JavaScript' => ['Core.Agent.TicketAction.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Phone-Ticket' };</pre>

6.20.4. Frontend::Module###AgentTicketPhoneInbound

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketPhoneInbound'} = { 'Description' => 'Incoming Phone Call', 'Loader' => { 'JavaScript' => ['Core.Agent.TicketAction.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Phone-Ticket' };</pre>

6.20.5. Frontend::Module###AgentTicketEmail

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketEmail'} = { 'Description' => 'Create new email ticket', 'Loader' => { 'JavaScript' => ['Core.Agent.CustomerSearch.js', 'Core.Agent.TicketAction.js'] }, 'NavBar' => [{ 'AccessKey' => 'm', 'Block' => '', 'Description' => 'Create new email ticket and send this out (outbound)', 'Link' => 'Action=AgentTicketEmail', 'LinkOption' => '', 'Name' => 'New email ticket', 'NavBar' => 'Ticket', 'Prio' => '210', 'Type' => '' }] };</pre>

```

    }
  ],
  'NavBarName' => 'Ticket',
  'Title' => 'New email ticket'
};

```

6.20.6. Frontend::Module###AgentTicketSearch

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'Frontend::Module'}->{'AgentTicketSearch'} = { 'Description' => 'Search Ticket', 'Loader' => { 'JavaScript' => ['Core.UI.AllocationList.js', 'Core.Agent.TableFilters.js'] }, 'NavBar' => [{ 'AccessKey' => 's', 'Block' => '', 'Description' => 'Search Tickets', 'Link' => 'Action=AgentTicketSearch', 'LinkOption' => 'onclick="window.setTimeout(function() {Core.Agent.Search.OpenSearchDialog(\'AgentTicketSearch\')});', 0); return false;"; 'Name' => 'Search', 'NavBar' => 'Ticket', 'Prio' => '300', 'Type' => '' }], 'NavBarName' => 'Ticket', 'Title' => 'Search' }; </pre>

6.20.7. Frontend::Module###AgentTicketLockedView

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'Frontend::Module'}->{'AgentTicketLockedView'} = { 'Description' => 'Locked Tickets', 'Loader' => { 'CSS' => ['Core.AgentTicketQueue.css', 'Core.AllocationList.css'], 'JavaScript' => ['Core.UI.AllocationList.js', 'Core.Agent.TableFilters.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Locked Tickets' }; </pre>

6.20.8. Frontend::Module###AgentTicketResponsibleView

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'Frontend::Module'}->{'AgentTicketResponsibleView'} = { 'Description' => 'Responsible Tickets', 'Loader' => { 'CSS' => ['Core.AllocationList.css'], 'JavaScript' => ['Core.UI.AllocationList.js', 'Core.Agent.TableFilters.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Responsible Tickets' }; </pre>

6.20.9. Frontend::Module###AgentTicketWatchView

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'Frontend::Module'}->{'AgentTicketWatchView'} = { 'Description' => 'Watched Tickets', 'Loader' => { 'CSS' => ['Core.AgentTicketQueue.css', 'Core.AllocationList.css'], 'JavaScript' => ['Core.UI.AllocationList.js', 'Core.Agent.TableFilters.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Watched Tickets' }; </pre>

6.20.10. Frontend::Module###AgentCustomerSearch

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'Frontend::Module'}->{'AgentCustomerSearch'} = { 'Description' => 'AgentCustomerSearch', 'NavBarName' => 'Ticket', 'Title' => 'AgentCustomerSearch' }; </pre>

```
};
```

6.20.11. Frontend::Module###AgentUserSearch

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentUserSearch'} = { 'Description' => 'AgentUserSearch', 'NavBarName' => 'Ticket', 'Title' => 'AgentUserSearch' };</pre>

6.20.12. Frontend::Module###AgentTicketStatusView

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketStatusView'} = { 'Description' => 'Overview of all open tickets', 'Loader' => { 'CSS' => ['Core.AllocationList.css'], 'JavaScript' => ['Core.UI.AllocationList.js', 'Core.Agent.TableFilters.js'] }, 'NavBar' => [{ 'AccessKey' => 'v', 'Block' => '', 'Description' => 'Overview of all open Tickets.', 'Link' => 'Action=AgentTicketStatusView', 'LinkOption' => '', 'Name' => 'Status view', 'NavBar' => 'Ticket', 'Prio' => '110', 'Type' => '' }], 'NavBarName' => 'Ticket', 'Title' => 'Status view' };</pre>

6.20.13. Frontend::Module###AgentTicketEscalation-View

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1

Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AgentTicketEscalationView'} = { 'Description' => 'Overview of all escalated tickets', 'Loader' => { 'CSS' => ['Core.AllocationList.css'], 'JavaScript' => ['Core.UI.AllocationList.js', 'Core.Agent.TableFilters.js'] }, 'NavBar' => [{ 'AccessKey' => 'e', 'Block' => '', 'Description' => 'Overview Escalated Tickets', 'Link' => 'Action=AgentTicketEscalationView', 'LinkOption' => '', 'Name' => 'Escalation view', 'NavBar' => 'Ticket', 'Prio' => '120', 'Type' => '' }], 'NavBarName' => 'Ticket', 'Title' => 'Escalation view' }; </pre>

6.20.14. Frontend::Module###AgentZoom

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AgentZoom'} = { 'Description' => 'compat module for AgentZoom to AgentTicketZoom', 'NavBarName' => 'Ticket', 'Title' => '' }; </pre>

6.20.15. Frontend::Module###AgentTicketZoom

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AgentTicketZoom'} = { 'Description' => 'Ticket Zoom', 'Loader' => { 'CSS' => ['Core.Agent.TicketProcess.css'], 'JavaScript' => ['thirdparty/jquery-tablesorter-2.0.5/jquery.tablesorter.js', 'Core.UI.Table.Sort.js', 'Core.Agent.TicketZoom.js'] }, }; </pre>

	<pre>'NavBarName' => 'Ticket', 'Title' => 'Zoom' };</pre>
--	---

6.20.16. Frontend::Module###AgentTicketAttachment

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketAttachment'} = { 'Description' => 'To download attachments', 'NavBarName' => 'Ticket', 'Title' => '' };</pre>

6.20.17. Frontend::Module###AgentTicketPlain

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketPlain'} = { 'Description' => 'Ticket plain view of an email', 'NavBarName' => 'Ticket', 'Title' => 'Plain' };</pre>

6.20.18. Frontend::Module###AgentTicketNote

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketNote'} = { 'Description' => 'Ticket Note', 'Loader' => { 'JavaScript' => ['Core.Agent.TicketAction.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Note' };</pre>

6.20.19. Frontend::Module###AgentTicketMerge

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration

Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketMerge'} = { 'Description' => 'Ticket Merge', 'NavBarName' => 'Ticket', 'Title' => 'Merge' };</pre>

6.20.20. Frontend::Module###AgentTicketPending

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketPending'} = { 'Description' => 'Ticket Pending', 'Loader' => { 'JavaScript' => ['Core.Agent.TicketAction.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Pending' };</pre>

6.20.21. Frontend::Module###AgentTicketWatcher

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketWatcher'} = { 'Description' => 'A TicketWatcher Module', 'NavBarName' => 'Ticket-Watcher', 'Title' => 'Ticket-Watcher' };</pre>

6.20.22. Frontend::Module###AgentTicketPriority

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketPriority'} = { 'Description' => 'Ticket Priority', 'Loader' => { 'JavaScript' => ['Core.Agent.TicketAction.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Priority' };</pre>

6.20.23. Frontend::Module###AgentTicketLock

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketLock'} = { 'Description' => 'Ticket Lock', 'NavBarName' => 'Ticket', 'Title' => 'Lock' };</pre>

6.20.24. Frontend::Module###AgentTicketMove

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketMove'} = { 'Description' => 'Ticket Move', 'Loader' => { 'JavaScript' => ['Core.Agent.TicketAction.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Move' };</pre>

6.20.25. Frontend::Module###AgentTicketHistory

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketHistory'} = { 'Description' => 'Ticket History', 'NavBarName' => 'Ticket', 'Title' => 'History' };</pre>

6.20.26. Frontend::Module###AgentTicketOwner

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketOwner'} = { 'Description' => 'Ticket Owner',</pre>

	<pre>'Loader' => { 'JavaScript' => ['Core.Agent.TicketAction.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Owner' };</pre>
--	--

6.20.27. Frontend::Module###AgentTicketResponsible

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketResponsible'} = { 'Description' => 'Ticket Responsible', 'Loader' => { 'JavaScript' => ['Core.Agent.TicketAction.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Responsible' };</pre>

6.20.28. Frontend::Module###AgentTicketCompose

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketCompose'} = { 'Description' => 'Ticket Compose email Answer', 'Loader' => { 'JavaScript' => ['Core.Agent.CustomerSearch.js', 'Core.Agent.TicketAction.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Compose' };</pre>

6.20.29. Frontend::Module###AgentTicketBounce

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketBounce'} = { 'Description' => 'Ticket Compose Bounce Email', 'NavBarName' => 'Ticket', 'Title' => 'Bounce' };</pre>

```
};
```

6.20.30. Frontend::Module###AgentTicketForward

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketForward'} = { 'Description' => 'Ticket Forward Email', 'Loader' => { 'JavaScript' => ['Core.Agent.CustomerSearch.js', 'Core.Agent.TicketAction.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Forward' };</pre>

6.20.31. Frontend::Module###AgentTicketCustomer

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketCustomer'} = { 'Description' => 'Ticket Customer', 'Loader' => { 'JavaScript' => ['Core.Agent.CustomerSearch.js', 'Core.Agent.TicketAction.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Customer' };</pre>

6.20.32. Frontend::Module###AgentTicketClose

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketClose'} = { 'Description' => 'Ticket Close', 'Loader' => { 'JavaScript' => ['Core.Agent.TicketAction.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Close' };</pre>

6.20.33. Frontend::Module###AgentTicketFreeText

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketFreeText'} = { 'Description' => 'Ticket FreeText', 'Loader' => { 'JavaScript' => ['Core.Agent.TicketAction.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Free Fields' };</pre>

6.20.34. Frontend::Module###AgentTicketPrint

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketPrint'} = { 'Description' => 'Ticket Print', 'NavBarName' => 'Ticket', 'Title' => 'Print' };</pre>

6.20.35. Frontend::Module###AgentTicketBulk

Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketBulk'} = { 'Description' => 'Ticket bulk module', 'Loader' => { 'JavaScript' => ['Core.Agent.TicketAction.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Bulk-Action' };</pre>

6.21. Frontend::Agent::Preferences

6.21.1. PreferencesGroups###NewTicketNotify

Description:	Parameters for the NewTicketNotify object in the preferences view of the agent interface.
--------------	---

Group:	Ticket
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'PreferencesGroups'}->{'NewTicketNotify'} = { 'Active' => '1', 'Column' => 'Email Settings', 'Data' => { '0' => 'No', '1' => 'Yes' }, 'DataSelected' => '0', 'Desc' => 'Send me a notification if there is a new ticket in "My Queues".', 'Key' => 'Send new ticket notifications', 'Label' => 'New ticket notification', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserSendNewTicketNotification', 'Prio' => '1000' }; </pre>

6.21.2. PreferencesGroups###FollowUpNotify

Description:	Parameters for the FollowUpNotify object in the preference view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'PreferencesGroups'}->{'FollowUpNotify'} = { 'Active' => '1', 'Column' => 'Email Settings', 'Data' => { '0' => 'No', '1' => 'Yes' }, 'DataSelected' => '0', 'Desc' => 'Send me a notification if a customer sends a follow up and I\'m the owner of the ticket or the ticket is unlocked and is in one of my subscribed queues.', 'Key' => 'Send ticket follow up notifications', 'Label' => 'Ticket follow up notification', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserSendFollowUpNotification', 'Prio' => '2000' }; </pre>

6.21.3. PreferencesGroups###LockTimeoutNotify

Description:	Parameters for the LockTimeoutNotify object in the preference view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'PreferencesGroups'}->{'LockTimeoutNotify'} = { 'Active' => '1', 'Column' => 'Email Settings', 'Data' => { </pre>

	<pre> '0' => 'No', '1' => 'Yes' }, 'DataSelected' => '0', 'Desc' => 'Send me a notification if a ticket is unlocked by the system.', 'Key' => 'Send ticket lock timeout notifications', 'Label' => 'Ticket lock timeout notification', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserSendLockTimeoutNotification', 'Prio' => '3000' }; </pre>
--	--

6.21.4. PreferencesGroups###MoveNotify

Description:	Parameters for the MoveNotify object in the preference view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'PreferencesGroups'}->{'MoveNotify'} = { 'Active' => '1', 'Column' => 'Email Settings', 'Data' => { '0' => 'No', '1' => 'Yes' }, 'DataSelected' => '0', 'Desc' => 'Send me a notification if a ticket is moved into one of "My Queues".', 'Key' => 'Send ticket move notifications', 'Label' => 'Ticket move notification', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserSendMoveNotification', 'Prio' => '4000' }; </pre>

6.21.5. PreferencesGroups###WatcherNotify

Description:	Parameters for the WatcherNotify object in the preference view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'PreferencesGroups'}->{'WatcherNotify'} = { 'Active' => '1', 'Column' => 'Email Settings', 'Data' => { '0' => 'No', '1' => 'Yes' }, 'DataSelected' => '0', 'Desc' => 'Send me the same notifications for my watched tickets that the ticket owners will get.', 'Key' => 'Send ticket watch notifications', 'Label' => 'Ticket watch notification', 'Module' => 'Kernel::Output::HTML::PreferencesTicketWatcher', 'PrefKey' => 'UserSendWatcherNotification', 'Prio' => '5000' }; </pre>

6.21.6. PreferencesGroups###CustomQueue

Description:	Parameters for the CustomQueue object in the preference view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'PreferencesGroups'}->{'CustomQueue'} = { 'Active' => '1', 'Column' => 'Other Settings', 'Desc' => 'Your queue selection of your favorite queues. You also get notified about those queues via email if enabled.', 'Key' => 'My Queues', 'Label' => 'My Queues', 'Module' => 'Kernel::Output::HTML::PreferencesCustomQueue', 'Permission' => 'ro', 'Prio' => '1000' }; </pre>

6.21.7. PreferencesGroups###RefreshTime

Description:	Parameters for the RefreshTime object in the preference view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'PreferencesGroups'}->{'RefreshTime'} = { 'Active' => '1', 'Column' => 'Other Settings', 'Data' => { '0' => 'off', '10' => '10 minutes', '15' => '15 minutes', '2' => ' 2 minutes', '5' => ' 5 minutes', '7' => ' 7 minutes' }, 'DataSelected' => '0', 'Desc' => 'If enabled, the different overviews (Dashboard, LockedView, QueueView) will automatically refresh after the specified time.', 'Key' => 'Refresh Overviews after', 'Label' => 'Overview Refresh Time', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserRefreshTime', 'Prio' => '2000' }; </pre>

6.21.8. PreferencesGroups###TicketOverviewSmall-PageShown

Description:	Parameters for the pages (in which the tickets are shown) of the small ticket overview.
Group:	Ticket
SubGroup:	Frontend::Agent::Preferences

Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'PreferencesGroups'}->{'TicketOverviewSmallPageShown'} = { 'Active' => '0', 'Column' => 'Other Settings', 'Data' => { '10' => '10', '15' => '15', '20' => '20', '25' => '25', '30' => '30', '35' => '35' }, 'DataSelected' => '25', 'Key' => 'Ticket limit per page for Ticket Overview "Small"', 'Label' => 'Ticket Overview "Small" Limit', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserTicketOverviewSmallPageShown', 'Prio' => '8000' }; </pre>

6.21.9. PreferencesGroups###TicketOverviewFilterSettings

Description:	Parameters for .
Group:	Ticket
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'PreferencesGroups'}->{'TicketOverviewFilterSettings'} = { 'Active' => '0', 'Column' => 'Other Settings', 'Key' => 'Column ticket filters for Ticket Overviews type "Small".', 'Label' => 'Enabled filters.', 'Module' => 'Kernel::Output::HTML::PreferencesColumnFilters', 'PrefKey' => 'UserFilterColumnsEnabled', 'Prio' => '8100' }; </pre>

6.21.10. PreferencesGroups###TicketOverviewMediumPageShown

Description:	Parameters for the pages (in which the tickets are shown) of the medium ticket overview.
Group:	Ticket
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'PreferencesGroups'}->{'TicketOverviewMediumPageShown'} = { 'Active' => '0', 'Column' => 'Other Settings', 'Data' => { '10' => '10', '15' => '15', '20' => '20', '25' => '25', '30' => '30', </pre>

	<pre> '35' => '35' }, 'DataSelected' => '20', 'Key' => 'Ticket limit per page for Ticket Overview "Medium"', 'Label' => 'Ticket Overview "Medium" Limit', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserTicketOverviewMediumPageShown', 'Prio' => '8100' }; </pre>
--	---

6.21.11. PreferencesGroups###TicketOverviewPreviewPageShown

Description:	Parameters for the pages (in which the tickets are shown) of the ticket preview overview.
Group:	Ticket
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'PreferencesGroups'}->{'TicketOverviewPreviewPageShown'} = { 'Active' => '0', 'Column' => 'Other Settings', 'Data' => { '10' => '10', '15' => '15', '20' => '20', '25' => '25', '30' => '30', '35' => '35' }, 'DataSelected' => '15', 'Key' => 'Ticket limit per page for Ticket Overview "Preview"', 'Label' => 'Ticket Overview "Preview" Limit', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserTicketOverviewPreviewPageShown', 'Prio' => '8200' }; </pre>

6.21.12. PreferencesGroups###CreateNextMask

Description:	Parameters for the CreateNextMask object in the preference view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre> \$self->{'PreferencesGroups'}->{'CreateNextMask'} = { 'Active' => '1', 'Column' => 'Other Settings', 'Data' => { '' => 'CreateTicket', 'AgentTicketZoom' => 'TicketZoom' }, 'DataSelected' => '', 'Key' => 'Show this screen after I created a new ticket', 'Label' => 'Screen after new ticket', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserCreateNextMask', 'Prio' => '3000' }; </pre>

6.22. Frontend::Agent::SearchRouter

6.22.1. Frontend::Search###AgentCustomerInformationCenter

Description:	Search backend router.
Group:	Ticket
SubGroup:	Frontend::Agent::SearchRouter
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Search'}->{'AgentCustomerInformationCenter'} = { '^AgentCustomerInformationCenter' => 'Action=AgentCustomerInformationCenterSearch' };</pre>

6.22.2. Frontend::Search###Ticket

Description:	Search backend router.
Group:	Ticket
SubGroup:	Frontend::Agent::SearchRouter
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Search'}->{'Ticket'} = { '^AgentTicket' => 'Action=AgentTicketSearch;Subaction=AJAX' };</pre>

6.23. Frontend::Agent::Ticket::ArticleAttachmentModule

6.23.1. Ticket::Frontend::ArticleAttachmentModule###1-Download

Description:	Shows a link to download article attachments in the zoom view of the article in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ArticleAttachmentModule
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::ArticleAttachmentModule'}->{'1- Download'} = { 'Module' => 'Kernel::Output::HTML::ArticleAttachmentDownload' };</pre>

6.23.2. Ticket::Frontend::ArticleAttachmentModule###2-HTML-Viewer

Description:	Shows a link to access article attachments via a html online viewer in the zoom view of the article in the agent interface.
Group:	Ticket

SubGroup:	Frontend::Agent::Ticket::ArticleAttachmentModule
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::ArticleAttachmentModule'}->{'2-HTML-Viewer'} = { 'Module' => 'Kernel::Output::HTML::ArticleAttachmentHTMLViewer' };</pre>

6.24. Frontend::Agent::Ticket::ArticleComposeModule

6.24.1. Ticket::Frontend::ArticleComposeModule###1-SignEmail

Description:	Module to compose signed messages (PGP or S/MIME).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ArticleComposeModule
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::ArticleComposeModule'}->{'1-SignEmail'} = { 'Module' => 'Kernel::Output::HTML::ArticleComposeSign' };</pre>

6.24.2. Ticket::Frontend::ArticleComposeModule###2-CryptEmail

Description:	Module to crypt composed messages (PGP or S/MIME).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ArticleComposeModule
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::ArticleComposeModule'}->{'2-CryptEmail'} = { 'Module' => 'Kernel::Output::HTML::ArticleComposeCrypt' };</pre>

6.25. Frontend::Agent::Ticket::ArticleViewModule

6.25.1. Ticket::Frontend::ArticleViewModule###1-PGP

Description:	Agent interface article notification module to check PGP.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ArticleViewModule
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::ArticleViewModule'}->{'1-PGP'} = { 'Module' => 'Kernel::Output::HTML::ArticleCheckPGP' };</pre>

```
};
```

6.25.2. Ticket::Frontend::ArticleViewModule###1-SMIME

Description:	Agent interface module to check incoming emails in the Ticket-Zoom-View if the S/MIME-key is available and true.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ArticleViewModule
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::ArticleViewModule'}->{'1-SMIME'} = { 'Module' => 'Kernel::Output::HTML::ArticleCheckSMIME' };</pre>

6.26. Frontend::Agent::Ticket::ArticleViewModulePre

6.26.1. Ticket::Frontend::ArticlePreViewModule###1-PGP

Description:	Agent interface article notification module to check PGP.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ArticleViewModulePre
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::ArticlePreViewModule'}->{'1-PGP'} = { 'Module' => 'Kernel::Output::HTML::ArticleCheckPGP' };</pre>

6.26.2. Ticket::Frontend::ArticlePreViewModule###1-SMIME

Description:	Agent interface article notification module to check S/MIME.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ArticleViewModulePre
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::ArticlePreViewModule'}->{'1-SMIME'} = { 'Module' => 'Kernel::Output::HTML::ArticleCheckSMIME' };</pre>

6.27. Frontend::Agent::Ticket::MenuModule

6.27.1. Ticket::Frontend::MenuModule###000-Back

Description:	Shows a link in the menu to go back in the ticket zoom view of the agent interface.
Group:	Ticket

SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::MenuModule'}->{'000-Back'} = { 'Action' => '', 'Description' => 'Back', 'Link' => '\$Env{"LastScreenOverview"};TicketID= \$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Back', 'PopupType' => '', 'Target' => '' };</pre>

6.27.2. Ticket::Frontend::MenuModule###100-Lock

Description:	Shows a link in the menu to lock/unlock tickets in the ticket zoom view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::MenuModule'}->{'100-Lock'} = { 'Action' => 'AgentTicketLock', 'Module' => 'Kernel::Output::HTML::TicketMenuLock', 'Name' => 'Lock', 'Target' => '' };</pre>

6.27.3. Ticket::Frontend::MenuModule###200-History

Description:	Shows a link in the menu to access the history of a ticket in the ticket zoom view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::MenuModule'}->{'200-History'} = { 'Action' => 'AgentTicketHistory', 'Description' => 'Show the ticket history', 'Link' => 'Action=AgentTicketHistory;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'History', 'PopupType' => 'TicketHistory', 'Target' => '' };</pre>

6.27.4. Ticket::Frontend::MenuModule###210-Print

Description:	Shows a link in the menu to print a ticket or an article in the ticket zoom view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	1
Required:	0

Config-Setting:	<pre>\$Self->{'Ticket::Frontend::MenuModule'}->{'210-Print'} = { 'Action' => 'AgentTicketPrint', 'Description' => 'Print this ticket', 'Link' => 'Action=AgentTicketPrint;TicketID=\$QData{"TicketID"}', 'LinkParam' => 'target="print"', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Print', 'PopupType' => 'TicketAction', 'Target' => '' };</pre>
-----------------	--

6.27.5. Ticket::Frontend::MenuModule###300-Priority

Description:	Shows a link in the menu to see the priority of a ticket in the ticket zoom view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::MenuModule'}->{'300-Priority'} = { 'Action' => 'AgentTicketPriority', 'Description' => 'Change the ticket priority', 'Link' => 'Action=AgentTicketPriority;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Priority', 'PopupType' => 'TicketAction', 'Target' => '' };</pre>

6.27.6. Ticket::Frontend::MenuModule###310-Free-Text

Description:	Shows a link in the menu to add a free text field in the ticket zoom view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::MenuModule'}->{'310-FreeText'} = { 'Action' => 'AgentTicketFreeText', 'Description' => 'Change the free fields for this ticket', 'Link' => 'Action=AgentTicketFreeText;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Free Fields', 'PopupType' => 'TicketAction', 'Target' => '' };</pre>

6.27.7. Ticket::Frontend::MenuModule###320-Link

Description:	Shows a link in the menu that allows linking a ticket with another object in the ticket zoom view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	1

Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::MenuModule'}->{'320-Link'} = { 'Action' => 'AgentLinkObject', 'Description' => 'Link this ticket to other objects', 'Link' => 'Action=AgentLinkObject;SourceObject=Ticket;SourceKey= \$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Link', 'PopupType' => 'TicketAction', 'Target' => '' }; </pre>

6.27.8. Ticket::Frontend::MenuModule###400-Owner

Description:	Shows a link in the menu to see the owner of a ticket in the ticket zoom view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::MenuModule'}->{'400-Owner'} = { 'Action' => 'AgentTicketOwner', 'Description' => 'Change the owner for this ticket', 'Link' => 'Action=AgentTicketOwner;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Owner', 'PopupType' => 'TicketAction', 'Target' => '' }; </pre>

6.27.9. Ticket::Frontend::MenuModule###410-Responsible

Description:	Shows a link in the menu to see the responsible agent of a ticket in the ticket zoom view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::MenuModule'}->{'410-Responsible'} = { 'Action' => 'AgentTicketResponsible', 'Description' => 'Change the responsible person for this ticket', 'Link' => 'Action=AgentTicketResponsible;TicketID= \$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuResponsible', 'Name' => 'Responsible', 'PopupType' => 'TicketAction', 'Target' => '' }; </pre>

6.27.10. Ticket::Frontend::MenuModule###420-Customer

Description:	Shows a link in the menu to see the customer who requested the ticket in the ticket zoom view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule

Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::MenuModule'}->{'420-Customer'} = { 'Action' => 'AgentTicketCustomer', 'Description' => 'Change the customer for this ticket', 'Link' => 'Action=AgentTicketCustomer;TicketID= \$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Customer', 'PopupType' => 'TicketAction', 'Target' => '' }; </pre>

6.27.11. Ticket::Frontend::MenuModule###420-Note

Description:	Shows a link in the menu to add a note in the ticket zoom view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::MenuModule'}->{'420-Note'} = { 'Action' => 'AgentTicketNote', 'Description' => 'Add a note to this ticket', 'Link' => 'Action=AgentTicketNote;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Note', 'PopupType' => 'TicketAction', 'Target' => '' }; </pre>

6.27.12. Ticket::Frontend::MenuModule###425-Phone Call Outbound

Description:	Shows a link in the menu to add a note in the ticket zoom view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::MenuModule'}->{'425-Phone Call Outbound'} = { 'Action' => 'AgentTicketPhoneOutbound', 'Description' => 'Phone Call Outbound', 'Link' => 'Action=AgentTicketPhoneOutbound;TicketID= \$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Phone Call Outbound', 'PopupType' => 'TicketAction', 'Target' => '' }; </pre>

6.27.13. Ticket::Frontend::MenuModule###426-Phone Call Inbound

Description:	Shows a link in the menu to add a note in the ticket zoom view of the agent interface.
--------------	--

Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::MenuModule'}->{'426-Phone Call Inbound'} = { 'Action' => 'AgentTicketPhoneInbound', 'Description' => 'Phone Call Inbound', 'Link' => 'Action=AgentTicketPhoneInbound;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Phone Call Inbound', 'PopupType' => 'TicketAction', 'Target' => '' };</pre>

6.27.14. Ticket::Frontend::MenuModule###430-Merge

Description:	Shows a link in the menu that allows merging tickets in the ticket zoom view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::MenuModule'}->{'430-Merge'} = { 'Action' => 'AgentTicketMerge', 'Description' => 'Merge into a different ticket', 'Link' => 'Action=AgentTicketMerge;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Merge', 'PopupType' => 'TicketAction', 'Target' => '' };</pre>

6.27.15. Ticket::Frontend::MenuModule###440-Pending

Description:	Shows a link in the menu to set a ticket as pending in the ticket zoom view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::MenuModule'}->{'440-Pending'} = { 'Action' => 'AgentTicketPending', 'Description' => 'Set this ticket to pending', 'Link' => 'Action=AgentTicketPending;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Pending', 'PopupType' => 'TicketAction', 'Target' => '' };</pre>

6.27.16. Ticket::Frontend::MenuModule###448-Watch

Description:	Shows a link in the menu for subscribing / unsubscribing from a ticket in the ticket zoom view of the agent interface.
--------------	--

Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::MenuModule'}->{'448-Watch'} = { 'Action' => 'AgentTicketWatcher', 'Module' => 'Kernel::Output::HTML::TicketMenuTicketWatcher', 'Name' => 'Watch', 'Target' => '' };</pre>

6.27.17. Ticket::Frontend::MenuModule###450-Close

Description:	Shows a link in the menu to close a ticket in the ticket zoom view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::MenuModule'}->{'450-Close'} = { 'Action' => 'AgentTicketClose', 'Description' => 'Close this ticket', 'Link' => 'Action=AgentTicketClose;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Close', 'PopupType' => 'TicketAction', 'Target' => '' };</pre>

6.27.18. Ticket::Frontend::MenuModule###460-Delete

Description:	Shows a link in the menu to delete a ticket in the ticket zoom view of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::MenuModule'}->{'460-Delete'} = { 'Action' => 'AgentTicketMove', 'Description' => 'Delete this ticket', 'Link' => 'Action=AgentTicketMove;TicketID=\$Data{"TicketID"};DestQueue=Delete', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Delete', 'PopupType' => '', 'Target' => '' };</pre>

6.27.19. Ticket::Frontend::MenuModule###470-Spam

Description:	Shows a link to set a ticket as spam in the ticket zoom view of the agent interface. Additional access control to show or not
--------------	---

	show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModule
Valid:	0
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::MenuModule'}->{'470-Spam'} = { 'Action' => 'AgentTicketMove', 'Description' => 'Mark as Spam!', 'Link' => 'Action=AgentTicketMove;TicketID= \$Data{"TicketID"};DestQueue=Delete', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Spam', 'PopupType' => '', 'Target' => '' }; </pre>

6.28. Frontend::Agent::Ticket::MenuModulePre

6.28.1. Ticket::Frontend::PreMenuModule###100-Lock

Description:	Shows a link in the menu to lock / unlock a ticket in the ticket overviews of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModulePre
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::PreMenuModule'}->{'100-Lock'} = { 'Action' => 'AgentTicketLock', 'Module' => 'Kernel::Output::HTML::TicketMenuLock', 'Name' => 'Lock', 'PopupType' => '', 'Target' => '' }; </pre>

6.28.2. Ticket::Frontend::PreMenuModule###200-Zoom

Description:	Shows a link in the menu to zoom a ticket in the ticket overviews of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModulePre
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::PreMenuModule'}->{'200-Zoom'} = { 'Action' => 'AgentTicketZoom', 'Description' => 'Look into a ticket!', 'Link' => 'Action=AgentTicketZoom;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Zoom', 'PopupType' => '', 'Target' => '' }; </pre>

6.28.3. Ticket::Frontend::PreMenuModule###210-History

Description:	Shows a link in the menu to see the history of a ticket in every ticket overview of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModulePre
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::PreMenuModule'}->{'210-History'} = { 'Action' => 'AgentTicketHistory', 'Description' => 'Show the ticket history', 'Link' => 'Action=AgentTicketHistory;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'History', 'PopupType' => 'TicketHistory', 'Target' => '' };</pre>

6.28.4. Ticket::Frontend::PreMenuModule###300-Priority

Description:	Shows a link in the menu to set the priority of a ticket in every ticket overview of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModulePre
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::PreMenuModule'}->{'300-Priority'} = { 'Action' => 'AgentTicketPriority', 'Description' => 'Change the priority for this ticket', 'Link' => 'Action=AgentTicketPriority;TicketID= \$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Priority', 'PopupType' => 'TicketAction', 'Target' => '' };</pre>

6.28.5. Ticket::Frontend::PreMenuModule###420-Note

Description:	Shows a link in the menu to add a note to a ticket in every ticket overview of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModulePre
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::PreMenuModule'}->{'420-Note'} = { 'Action' => 'AgentTicketNote', 'Description' => 'Add a note to this ticket', 'Link' => 'Action=AgentTicketNote;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Note', 'PopupType' => 'TicketAction', 'Target' => '' };</pre>

6.28.6. Ticket::Frontend::PreMenuModule###440-Close

Description:	Shows a link in the menu to close a ticket in every ticket overview of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModulePre
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::PreMenuModule'}->{'440-Close'} = { 'Action' => 'AgentTicketClose', 'Description' => 'Close this ticket', 'Link' => 'Action=AgentTicketClose;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Close', 'PopupType' => 'TicketAction', 'Target' => '' };</pre>

6.28.7. Ticket::Frontend::PreMenuModule###445-Move

Description:	Shows a link in the menu to move a ticket in every ticket overview of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModulePre
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::PreMenuModule'}->{'445-Move'} = { 'Action' => 'AgentTicketMove', 'Description' => 'Change queue!', 'Module' => 'Kernel::Output::HTML::TicketMenuMove', 'Name' => 'Move' };</pre>

6.28.8. Ticket::Frontend::PreMenuModule###450-Delete

Description:	Shows a link in the menu to delete a ticket in every ticket overview of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModulePre
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::PreMenuModule'}->{'450-Delete'} = { 'Action' => 'AgentTicketMove', 'Description' => 'Delete this ticket', 'Link' => 'Action=AgentTicketMove;TicketID= \$Data{"TicketID"};DestQueue=Delete', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Delete', 'PopupType' => '', 'Target' => '' };</pre>

```
};
```

6.28.9. Ticket::Frontend::PreMenuModule###460-Spam

Description:	Shows a link in the menu to set a ticket as spam in every ticket overview of the agent interface. Additional access control to show or not show this link can be done by using Key "Group" and Content like "rw:group1;move_into:group2".
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::MenuModulePre
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::PreMenuModule'}->{'460-Spam'} = { 'Action' => 'AgentTicketMove', 'Description' => 'Mark as Spam!', 'Link' => 'Action=AgentTicketMove;TicketID= \$Data{"TicketID"};DestQueue=Delete', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Spam', 'PopupType' => '', 'Target' => '' };</pre>

6.29. Frontend::Agent::Ticket::OverviewMenuModule

6.29.1. Ticket::Frontend::OverviewMenuModule###001-Sort

Description:	Shows a select of ticket attributes to order the queue view ticket list. The possible selections can be configured via 'TicketOverviewMenuSort###SortAttributes'.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::OverviewMenuModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::OverviewMenuModule'}->{'001-Sort'} = { 'Module' => 'Kernel::Output::HTML::TicketOverviewMenuSort' };</pre>

6.29.2. TicketOverviewMenuSort###SortAttributes

Description:	Defines from which ticket attributes the agent can select the result order.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::OverviewMenuModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'TicketOverviewMenuSort'}->{'SortAttributes'} = { 'Age' => '1', 'Title' => '1' };</pre>

6.30. Frontend::Agent::Ticket::ViewBounce

6.30.1. Ticket::Frontend::AgentTicketBounce###Permission

Description:	Required permissions to use the ticket bounce screen in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewBounce
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketBounce'}->{'Permission'} = 'bounce';</code>

6.30.2. Ticket::Frontend::AgentTicketBounce###RequiredLock

Description:	Defines if a ticket lock is required in the ticket bounce screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewBounce
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketBounce'}->{'RequiredLock'} = '1';</code>

6.30.3. Ticket::Frontend::AgentTicketBounce###StateDefault

Description:	Defines the default next state of a ticket after being bounced, in the ticket bounce screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewBounce
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketBounce'}->{'StateDefault'} = 'closed_successful';</code>

6.30.4. Ticket::Frontend::AgentTicketBounce###StateType

Description:	Defines the next state of a ticket after being bounced, in the ticket bounce screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewBounce
Valid:	1
Required:	1

Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketBounce'}->{'StateType'} = ['open', 'closed'];</pre>
-----------------	---

6.30.5. Ticket::Frontend::BounceText

Description:	Defines the default ticket bounced notification for customer/sender in the ticket bounce screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewBounce
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::BounceText'} = 'Your email with ticket number "<OTRS_TICKET>" is bounced to "<OTRS_BOUNCE_TO>". Contact this address for further information.';</pre>

6.31. Frontend::Agent::Ticket::ViewBulk

6.31.1. Ticket::Frontend::AgentTicketBulk###RequiredLock

Description:	Automatically lock and set owner to current Agent after selecting for an Bulk Action.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewBulk
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'RequiredLock'} = '1';</pre>

6.31.2. Ticket::Frontend::AgentTicketBulk###Ticket-Type

Description:	Sets the ticket type in the ticket bulk screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewBulk
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'TicketType'} = '1';</pre>

6.31.3. Ticket::Frontend::AgentTicketBulk###Owner

Description:	Sets the ticket owner in the ticket bulk screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewBulk
Valid:	1
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'Owner'} = '1';</code>
-----------------	--

6.31.4. Ticket::Frontend::AgentTicketBulk###Responsible

Description:	Sets the responsible agent of the ticket in the ticket bulk screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewBulk
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'Responsible'} = '1';</code>

6.31.5. Ticket::Frontend::AgentTicketBulk###State

Description:	If a note is added by an agent, sets the state of a ticket in the ticket bulk screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewBulk
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'State'} = '1';</code>

6.31.6. Ticket::Frontend::AgentTicketBulk###State-Type

Description:	Defines the next state of a ticket after adding a note, in the ticket bulk screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewBulk
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'StateType'} = ['open', 'closed', 'pending reminder', 'pending auto'];</code>

6.31.7. Ticket::Frontend::AgentTicketBulk###StateDefault

Description:	Defines the default next state of a ticket after adding a note, in the ticket bulk screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewBulk
Valid:	0
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'StateDefault'} = 'open';</code>
-----------------	--

6.31.8. Ticket::Frontend::AgentTicketBulk###Priority

Description:	Shows the ticket priority options in the ticket bulk screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewBulk
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'Priority'} = '1';</code>

6.31.9. Ticket::Frontend::AgentTicketBulk###Priority-Default

Description:	Defines the default ticket priority in the ticket bulk screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewBulk
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'PriorityDefault'} = '3 normal';</code>

6.31.10. Ticket::Frontend::AgentTicketBulk###Article-TypeDefault

Description:	Defines the default type of the note in the ticket bulk screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewBulk
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'ArticleTypeDefault'} = 'note-internal';</code>

6.31.11. Ticket::Frontend::AgentTicketBulk###Article-Types

Description:	Specifies the different note types that will be used in the system.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewBulk
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'ArticleTypes'} = { 'note-external' => '1', 'note-internal' => '1', 'note-report' => '0'</code>

```
};
```

6.32. Frontend::Agent::Ticket::ViewClose

6.32.1. Ticket::Frontend::AgentTicketClose###Permission

Description:	Required permissions to use the close ticket screen in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Permission'} = 'close';</code>

6.32.2. Ticket::Frontend::AgentTicketClose###RequiredLock

Description:	Defines if a ticket lock is required in the close ticket screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'RequiredLock'} = '1';</code>

6.32.3. Ticket::Frontend::AgentTicketClose###Ticket-Type

Description:	Sets the ticket type in the close ticket screen of the agent interface (Ticket::Type needs to be activated).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'TicketType'} = '0';</code>

6.32.4. Ticket::Frontend::AgentTicketClose###Service

Description:	Sets the service in the close ticket screen of the agent interface (Ticket::Service needs to be activated).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Service'} = '0';</code>
-----------------	---

6.32.5. Ticket::Frontend::AgentTicketClose###Service-Mandatory

Description:	Sets if service must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'ServiceMandatory'} = '0';</code>

6.32.6. Ticket::Frontend::AgentTicketClose###SLA-Mandatory

Description:	Sets if SLA must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'SLAMandatory'} = '0';</code>

6.32.7. Ticket::Frontend::AgentTicketClose###Queue

Description:	Sets the queue in the ticket close screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Queue'} = '0';</code>

6.32.8. Ticket::Frontend::AgentTicketClose###Owner

Description:	Sets the ticket owner in the close ticket screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Owner'} = '0';</code>

6.32.9. Ticket::Frontend::AgentTicketClose###Owner-Mandatory

Description:	Sets if ticket owner must be selected by the agent.
--------------	---

Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'OwnerMandatory'} = '0';</code>

6.32.10. Ticket::Frontend::AgentTicketClose###Responsible

Description:	Sets the responsible agent of the ticket in the close ticket screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Responsible'} = '0';</code>

6.32.11. Ticket::Frontend::AgentTicketClose###State

Description:	If a note is added by an agent, sets the state of a ticket in the close ticket screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'State'} = '1';</code>

6.32.12. Ticket::Frontend::AgentTicketClose###State-Type

Description:	Defines the next state of a ticket after adding a note, in the close ticket screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'StateType'} = ['closed'];</code>

6.32.13. Ticket::Frontend::AgentTicketClose###StateDefault

Description:	Defines the default next state of a ticket after adding a note, in the close ticket screen of the agent interface.
Group:	Ticket

SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'StateDefault'} = 'closed successful';</code>

6.32.14. Ticket::Frontend::AgentTicketClose###Note

Description:	Allows adding notes in the close ticket screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Note'} = '1';</code>

6.32.15. Ticket::Frontend::AgentTicketClose###Note-Mandatory

Description:	Sets if note must be filled in by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'NoteMandatory'} = '1';</code>

6.32.16. Ticket::Frontend::AgentTicketClose###Subject

Description:	Sets the default subject for notes added in the close ticket screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Subject'} = '\$Text{"Close"}';</code>

6.32.17. Ticket::Frontend::AgentTicketClose###Body

Description:	Sets the default body text for notes added in the close ticket screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Body'} = '';</code>
-----------------	---

6.32.18. Ticket::Frontend::AgentTicketClose###InvolvedAgent

Description:	Shows a list of all the involved agents on this ticket, in the close ticket screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'InvolvedAgent'} = '0';</code>

6.32.19. Ticket::Frontend::AgentTicketClose###InformAgent

Description:	Shows a list of all the possible agents (all agents with note permissions on the queue/ticket) to determine who should be informed about this note, in the close ticket screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'InformAgent'} = '0';</code>

6.32.20. Ticket::Frontend::AgentTicketClose###ArticleTypeDefault

Description:	Defines the default type of the note in the close ticket screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'ArticleTypeDefault'} = 'note-internal';</code>

6.32.21. Ticket::Frontend::AgentTicketClose###ArticleTypes

Description:	Specifies the available note types for this ticket mask. If the option is deselected, ArticleTypeDefault is used and the option is removed from the mask.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1

Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'ArticleTypes'} = { 'note-external' => '0', 'note-internal' => '1', 'note-report' => '0' };</pre>

6.32.22. Ticket::Frontend::AgentTicketClose###Priority

Description:	Shows the ticket priority options in the close ticket screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Priority'} = '0';</pre>

6.32.23. Ticket::Frontend::AgentTicketClose###PriorityDefault

Description:	Defines the default ticket priority in the close ticket screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'PriorityDefault'} = '3 normal';</pre>

6.32.24. Ticket::Frontend::AgentTicketClose###Title

Description:	Shows the title fields in the close ticket screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Title'} = '0';</pre>

6.32.25. Ticket::Frontend::AgentTicketClose###HistoryType

Description:	Defines the history type for the close ticket screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1

Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'HistoryType'} = 'AddNote';</code>

6.32.26. Ticket::Frontend::AgentTicketClose###HistoryComment

Description:	Defines the history comment for the close ticket screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'HistoryComment'} = '%Close';</code>

6.32.27. Ticket::Frontend::AgentTicketClose###DynamicField

Description:	Dynamic fields shown in the ticket close screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'DynamicField'} = {};</code>

6.32.28. Ticket::Frontend::AgentTicketClose###RichTextWidth

Description:	Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'RichTextWidth'} = '620';</code>

6.32.29. Ticket::Frontend::AgentTicketClose###RichTextHeight

Description:	Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1

Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'RichTextHeight'} = '100';</code>

6.33. Frontend::Agent::Ticket::ViewCompose

6.33.1. Ticket::Frontend::AgentTicketCompose###Permission

Description:	Required permissions to use the ticket compose screen in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewCompose
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketCompose'}->{'Permission'} = 'compose';</code>

6.33.2. Ticket::Frontend::AgentTicketCompose###RequiredLock

Description:	Defines if a ticket lock is required in the ticket compose screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewCompose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketCompose'}->{'RequiredLock'} = '1';</code>

6.33.3. Ticket::Frontend::AgentTicketCompose###StateDefault

Description:	Defines the default next state of a ticket if it is composed / answered in the ticket compose screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewCompose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketCompose'}->{'StateDefault'} = 'open';</code>

6.33.4. Ticket::Frontend::AgentTicketCompose###StateType

Description:	Defines the next possible states after composing / answering a ticket in the ticket compose screen of the agent interface.
--------------	--

Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewCompose
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketCompose'}->{'StateType'} = ['open', 'closed', 'pending auto', 'pending reminder'];</pre>

6.33.5. Ticket::Frontend::AgentTicketCompose###ArticleTypes

Description:	Specifies the different article types that will be used in the system.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewCompose
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketCompose'}->{'ArticleTypes'} = ['email-external', 'email-internal'];</pre>

6.33.6. Ticket::Frontend::AgentTicketCompose###DefaultArticleType

Description:	Specifies the default article type for the ticket compose screen in the agent interface if the article type cannot be automatically detected.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewCompose
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketCompose'}->{'DefaultArticleType'} = 'email-external';</pre>

6.33.7. Ticket::Frontend::ResponseFormat

Description:	Defines the format of responses in the ticket compose screen of the agent interface (\$QData{"OrigFrom"} is From 1:1, \$QData{"OrigFromName"} is only realname of From).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewCompose
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::ResponseFormat'} = \$QData{"Salutation"} \$QData{"StdResponse"} \$QData{"Signature"}</pre>

	<pre>\$TimeShort{"\$QData{"Created"}} - \$QData{"OrigFromName"} \$Text{"wrote"}: \$QData{"Body"} ';</pre>
--	---

6.33.8. Ticket::Frontend::Quote

Description:	Defines the used character for plaintext email quotes in the ticket compose screen of the agent interface. If this is empty or inactive, original emails will not be quoted but appended to the response.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewCompose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::Quote'} = '>';</code>

6.33.9. Ticket::Frontend::ResponseQuoteMaxLines

Description:	Defines the maximum number of quoted lines to be added to responses.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewCompose
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::ResponseQuoteMaxLines'} = '99';</code>

6.33.10. Ticket::Frontend::ComposeAddCustomerAddress

Description:	Adds customers email addresses to recipients in the ticket compose screen of the agent interface. The customers email address won't be added if the article type is email-internal.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewCompose
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::ComposeAddCustomerAddress'} = '1';</code>

6.33.11. Ticket::Frontend::ComposeReplaceSenderAddress

Description:	Replaces the original sender with current customer's email address on compose answer in the ticket compose screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewCompose
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::ComposeReplaceSenderAddress'} = '0';</code>

6.33.12. Ticket::Frontend::ComposeExcludeCcRecipients

Description:	Uses Cc recipients in reply Cc list on compose an email answer in the ticket compose screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewCompose
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::ComposeExcludeCcRecipients'} = '0';</code>

6.33.13. Ticket::Frontend::AgentTicketCompose###DynamicField

Description:	Dynamic fields shown in the ticket compose screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewCompose
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketCompose'}->{'DynamicField'} = {};</code>

6.34. Frontend::Agent::Ticket::ViewCustomer

6.34.1. Ticket::Frontend::AgentTicketCustomer###Permission

Description:	Required permissions to change the customer of a ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewCustomer
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketCustomer'}->{'Permission'} = 'customer';</code>

6.34.2. Ticket::Frontend::AgentTicketCustomer###RequiredLock

Description:	Defines if a ticket lock is required to change the customer of a ticket in the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewCustomer
Valid:	1

Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketCustomer'}->{'RequiredLock'} = '0';</code>

6.35. Frontend::Agent::Ticket::ViewEmailNew

6.35.1. Ticket::Frontend::AgentTicketEmail###Priority

Description:	Sets the default priority for new email tickets in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEmailNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'Priority'} = '3 normal';</code>

6.35.2. Ticket::Frontend::AgentTicketEmail###Article-Type

Description:	Sets the default article type for new email tickets in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEmailNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'ArticleType'} = 'email-external';</code>

6.35.3. Ticket::Frontend::AgentTicketEmail###Sender-Type

Description:	Sets the default sender type for new email tickets in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEmailNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'SenderType'} = 'agent';</code>

6.35.4. Ticket::Frontend::AgentTicketEmail###Subject

Description:	Sets the default subject for new email tickets (e.g. 'email Outbound') in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEmailNew
Valid:	1

Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'Subject'} = '';</code>

6.35.5. Ticket::Frontend::AgentTicketEmail###Body

Description:	Sets the default text for new email tickets in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEmailNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'Body'} = '';</code>

6.35.6. Ticket::Frontend::AgentTicketEmail###StateDefault

Description:	Sets the default next ticket state, after the creation of an email ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEmailNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'StateDefault'} = 'open';</code>

6.35.7. Ticket::Frontend::AgentTicketEmail###State-Type

Description:	Determines the next possible ticket states, after the creation of a new email ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEmailNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'StateType'} = ['open', 'pending auto', 'pending reminder', 'closed'];</code>

6.35.8. Ticket::Frontend::AgentTicketEmail###History-Type

Description:	Defines the history type for the email ticket screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEmailNew
Valid:	1

Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'HistoryType'} = 'EmailAgent';</code>

6.35.9. Ticket::Frontend::AgentTicketEmail###HistoryComment

Description:	Defines the history comment for the email ticket screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEmailNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'HistoryComment'} = '';</code>

6.35.10. Ticket::Frontend::AgentTicketEmail###ServiceMandatory

Description:	Sets if service must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEmailNew
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'ServiceMandatory'} = '0';</code>

6.35.11. Ticket::Frontend::AgentTicketEmail###SLAMandatory

Description:	Sets if SLA must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEmailNew
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'SLAMandatory'} = '0';</code>

6.35.12. Ticket::Frontend::AgentTicketEmail###DynamicField

Description:	Dynamic fields shown in the ticket email screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEmailNew
Valid:	1
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'DynamicField'} = {};</code>
-----------------	---

6.35.13. Ticket::Frontend::AgentTicketEmail###Rich-TextWidth

Description:	Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEmailNew
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'RichTextWidth'} = '620';</code>

6.35.14. Ticket::Frontend::AgentTicketEmail###Rich-TextHeight

Description:	Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEmailNew
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'RichTextHeight'} = '320';</code>

6.36. Frontend::Agent::Ticket::ViewEscalation

6.36.1. Ticket::Frontend::AgentTicketEscalation-View###TicketPermission

Description:	Defines the required permission to show a ticket in the escalation view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEscalation
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEscalationView'}->{'TicketPermission'} = 'rw';</code>

6.36.2. Ticket::Frontend::AgentTicketEscalation-View###ViewableTicketsPage

Description:	Shows all open tickets (even if they are locked) in the escalation view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEscalation

Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEscalationView'}->{'ViewableTicketsPage'} = '50';</code>

6.36.3. Ticket::Frontend::AgentTicketEscalation-View###SortBy::Default

Description:	Defines the default ticket attribute for ticket sorting in the escalation view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEscalation
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEscalationView'}->{'SortBy::Default'} = 'EscalationTime';</code>

6.36.4. Ticket::Frontend::AgentTicketEscalation-View###Order::Default

Description:	Defines the default ticket order (after priority sort) in the escalation view of the agent interface. Up: oldest on top. Down: latest on top.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEscalation
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEscalationView'}->{'Order::Default'} = 'Up';</code>

6.36.5. Ticket::Frontend::AgentTicketEscalation-View###DefaultColumns

Description:	Columns that can be filtered in the escalation view of the agent interface. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewEscalation
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEscalationView'}->{'DefaultColumns'} = { 'Age' => '2', 'Changed' => '1', 'CustomerID' => '2', 'CustomerName' => '1', 'CustomerUserID' => '1', 'EscalationResponseTime' => '1', 'EscalationSolutionTime' => '1', 'EscalationTime' => '2', 'EscalationUpdateTime' => '1',</code>

```
'Lock' => '2',
'Owner' => '2',
'PendingTime' => '1',
'Priority' => '1',
'Queue' => '2',
'Responsible' => '1',
'SLA' => '1',
'Service' => '1',
'State' => '2',
'TicketNumber' => '2',
'Title' => '2',
'Type' => '1'
};
```

6.37. Frontend::Agent::Ticket::ViewForward

6.37.1. Ticket::Frontend::AgentTicketForward###Permission

Description:	Required permissions to use the ticket forward screen in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewForward
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketForward'}->{'Permission'} = 'forward';</code>

6.37.2. Ticket::Frontend::AgentTicketForward###RequiredLock

Description:	Defines if a ticket lock is required in the ticket forward screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewForward
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketForward'}->{'RequiredLock'} = '1';</code>

6.37.3. Ticket::Frontend::AgentTicketForward###StateDefault

Description:	Defines the default next state of a ticket after being forwarded, in the ticket forward screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewForward
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketForward'}->{'StateDefault'} = 'closed successful';</code>

6.37.4. Ticket::Frontend::AgentTicketForward###StateType

Description:	Defines the next possible states after forwarding a ticket in the ticket forward screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewForward
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketForward'}->{'StateType'} = ['open', 'closed', 'pending reminder', 'pending auto'];</pre>

6.37.5. Ticket::Frontend::AgentTicketForward###ArticleTypeDefault

Description:	Defines the default type of forwarded message in the ticket forward screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewForward
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketForward'}->{'ArticleTypeDefault'} = 'email-external';</pre>

6.37.6. Ticket::Frontend::AgentTicketForward###ArticleTypes

Description:	Specifies the different article types that will be used in the system.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewForward
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketForward'}->{'ArticleTypes'} = ['email-external', 'email-internal'];</pre>

6.37.7. Ticket::Frontend::AgentTicketForward###DynamicField

Description:	Dynamic fields shown in the ticket forward screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewForward
Valid:	1

Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketForward'}->{'DynamicField'} = {};</code>

6.37.8. Ticket::Frontend::AgentTicketForward###Rich-TextWidth

Description:	Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewForward
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketForward'}->{'RichTextWidth'} = '620';</code>

6.37.9. Ticket::Frontend::AgentTicketForward###Rich-TextHeight

Description:	Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewForward
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketForward'}->{'RichTextHeight'} = '100';</code>

6.38. Frontend::Agent::Ticket::ViewFreeText

6.38.1. Ticket::Frontend::AgentTicketFreeText###Permission

Description:	Required permissions to use the ticket free text screen in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Permission'} = 'rw';</code>

6.38.2. Ticket::Frontend::AgentTicketFreeText###RequiredLock

Description:	Defines if a ticket lock is required in the ticket free text screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).
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Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'RequiredLock'} = '0';</code>

6.38.3. Ticket::Frontend::AgentTicketFreeText###TicketType

Description:	Sets the ticket type in the ticket free text screen of the agent interface (Ticket::Type needs to be activated).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'TicketType'} = '1';</code>

6.38.4. Ticket::Frontend::AgentTicketFreeText###Service

Description:	Sets the service in the ticket free text screen of the agent interface (Ticket::Service needs to be activated).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Service'} = '1';</code>

6.38.5. Ticket::Frontend::AgentTicketFreeText###ServiceMandatory

Description:	Sets if service must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'ServiceMandatory'} = '0';</code>

6.38.6. Ticket::Frontend::AgentTicketFreeText###SLAMandatory

Description:	Sets if SLA must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText

Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'SLAMandatory'} = '0';</code>

6.38.7. Ticket::Frontend::AgentTicketFreeText###Queue

Description:	Sets the queue in the ticket free text screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Queue'} = '0';</code>

6.38.8. Ticket::Frontend::AgentTicketFreeText###Owner

Description:	Sets the ticket owner in the ticket free text screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Owner'} = '0';</code>

6.38.9. Ticket::Frontend::AgentTicketFreeText###OwnerMandatory

Description:	Sets if ticket owner must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'OwnerMandatory'} = '0';</code>

6.38.10. Ticket::Frontend::AgentTicketFreeText###Responsible

Description:	Sets the responsible agent of the ticket in the ticket free text screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Responsible'} = '0';</code>
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6.38.11. Ticket::Frontend::AgentTicketFreeText###State

Description:	If a note is added by an agent, sets the state of a ticket in the ticket free text screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'State'} = '0';</code>

6.38.12. Ticket::Frontend::AgentTicketFreeText###StateType

Description:	Defines the next state of a ticket after adding a note, in the ticket free text screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'StateType'} = ['open', 'closed', 'pending reminder', 'pending auto'];</code>

6.38.13. Ticket::Frontend::AgentTicketFreeText###StateDefault

Description:	Defines the default next state of a ticket after adding a note, in the ticket free text screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'StateDefault'} = 'open';</code>

6.38.14. Ticket::Frontend::AgentTicketFreeText###Note

Description:	Allows adding notes in the ticket free text screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText

Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Note'} = '0';</code>

6.38.15. Ticket::Frontend::AgentTicketFreeText###NoteMandatory

Description:	Sets if note must be filled in by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'NoteMandatory'} = '0';</code>

6.38.16. Ticket::Frontend::AgentTicketFreeText###Subject

Description:	Defines the default subject of a note in the ticket free text screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Subject'} = '\$Text{"Note"}';</code>

6.38.17. Ticket::Frontend::AgentTicketFreeText###Body

Description:	Defines the default body of a note in the ticket free text screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Body'} = '';</code>

6.38.18. Ticket::Frontend::AgentTicketFreeText###InvolvedAgent

Description:	Shows a list of all the involved agents on this ticket, in the ticket free text screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	0
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'InvolvedAgent'} = '0';</code>
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6.38.19. Ticket::Frontend::AgentTicketFreeText###InformAgent

Description:	Shows a list of all the possible agents (all agents with note permissions on the queue/ticket) to determine who should be informed about this note, in the ticket free text screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'InformAgent'} = '0';</code>

6.38.20. Ticket::Frontend::AgentTicketFreeText###ArticleTypeDefault

Description:	Defines the default type of the note in the ticket free text screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'ArticleTypeDefault'} = 'note-internal';</code>

6.38.21. Ticket::Frontend::AgentTicketFreeText###ArticleTypes

Description:	Specifies the available note types for this ticket mask. If the option is deselected, ArticleTypeDefault is used and the option is removed from the mask.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'ArticleTypes'} = { 'note-external' => '1', 'note-internal' => '1', 'note-report' => '0' };</code>

6.38.22. Ticket::Frontend::AgentTicketFreeText###Priority

Description:	Shows the ticket priority options in the ticket free text screen of the agent interface.
--------------	--

Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Priority'} = '0';</code>

6.38.23. Ticket::Frontend::AgentTicketFreeText###PriorityDefault

Description:	Defines the default ticket priority in the ticket free text screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'PriorityDefault'} = '3 normal';</code>

6.38.24. Ticket::Frontend::AgentTicketFreeText###Title

Description:	Shows the title fields in the ticket free text screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Title'} = '1';</code>

6.38.25. Ticket::Frontend::AgentTicketFreeText###HistoryType

Description:	Defines the history type for the ticket free text screen action, which gets used for ticket history.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'HistoryType'} = 'AddNote';</code>

6.38.26. Ticket::Frontend::AgentTicketFreeText###HistoryComment

Description:	Defines the history comment for the ticket free text screen action, which gets used for ticket history.
Group:	Ticket

SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'HistoryComment'} = '%FreeText';</code>

6.38.27. Ticket::Frontend::AgentTicketFreeText###DynamicField

Description:	Dynamic fields shown in the ticket free text screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'DynamicField'} = {};</code>

6.38.28. Ticket::Frontend::AgentTicketFreeText###RichTextWidth

Description:	Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'RichTextWidth'} = '620';</code>

6.38.29. Ticket::Frontend::AgentTicketFreeText###RichTextHeight

Description:	Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'RichTextHeight'} = '100';</code>

6.39. Frontend::Agent::Ticket::ViewHistory

6.39.1. Ticket::Frontend::HistoryOrder

Description:	Shows the ticket history (reverse ordered) in the agent interface.
--------------	--

Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewHistory
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::HistoryOrder'} = 'normal';</code>

6.40. Frontend::Agent::Ticket::ViewLocked

6.40.1. Ticket::Frontend::AgentTicketLocked-View###SortBy::Default

Description:	Defines the default ticket attribute for ticket sorting in the locked ticket view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewLocked
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketLockedView'}->{'SortBy::Default'} = 'Age';</code>

6.40.2. Ticket::Frontend::AgentTicketLocked-View###Order::Default

Description:	Defines the default ticket order in the ticket locked view of the agent interface. Up: oldest on top. Down: latest on top.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewLocked
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketLockedView'}->{'Order::Default'} = 'Up';</code>

6.40.3. Ticket::Frontend::AgentTicketLocked-View###DefaultColumns

Description:	Columns that can be filtered in the locked view of the agent interface. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewLocked
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketLockedView'}->{'DefaultColumns'} = { 'Age' => '2', 'Changed' => '1', 'CustomerID' => '2', 'CustomerName' => '1',</code>

```
'CustomerUserID' => '1',
'EscalationResponseTime' => '1',
'EscalationSolutionTime' => '1',
'EscalationTime' => '1',
'EscalationUpdateTime' => '1',
'Lock' => '2',
'Owner' => '2',
'PendingTime' => '1',
'Priority' => '1',
'Queue' => '2',
'Responsible' => '1',
'SLA' => '1',
'Service' => '1',
'State' => '2',
'TicketNumber' => '2',
'Title' => '2',
'Type' => '1'
};
```

6.41. Frontend::Agent::Ticket::ViewMerge

6.41.1. Ticket::Frontend::AgentTicketMerge###Permission

Description:	Required permissions to use the ticket merge screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMerge
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketMerge'}->{'Permission'} = 'rw';</code>

6.41.2. Ticket::Frontend::AgentTicketMerge###RequiredLock

Description:	Defines if a ticket lock is required in the ticket merge screen of a zoomed ticket in the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMerge
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketMerge'}->{'RequiredLock'} = '1';</code>

6.41.3. Ticket::Frontend::MergeText

Description:	When tickets are merged, the customer can be informed per email by setting the check box "Inform Sender". In this text area, you can define a pre-formatted text which can later be modified by the agents.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMerge

Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::MergeText'} = 'Your email with ticket number "<OTRS_TICKET>" is merged to "<OTRS_MERGE_TO_TICKET>";</code>

6.41.4. Ticket::Frontend::AutomaticMergeSubject

Description:	When tickets are merged, a note will be added automatically to the ticket which is no longer active. Here you can define the subject of this note (this subject cannot be changed by the agent).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMerge
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AutomaticMergeSubject'} = 'Ticket Merged';</code>

6.41.5. Ticket::Frontend::AutomaticMergeText

Description:	When tickets are merged, a note will be added automatically to the ticket which is no longer active. Here you can define the body of this note (this text cannot be changed by the agent).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMerge
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AutomaticMergeText'} = 'Merged Ticket <OTRS_TICKET> to <OTRS_MERGE_TO_TICKET>.';</code>

6.41.6. Ticket::Frontend::AgentTicketMerge###Rich-TextWidth

Description:	Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMerge
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketMerge'}->{'RichTextWidth'} = '620';</code>

6.41.7. Ticket::Frontend::AgentTicketMerge###Rich-TextHeight

Description:	Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMerge
Valid:	1

Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketMerge'}->{'RichTextHeight'} = '100';</code>

6.42. Frontend::Agent::Ticket::ViewMove

6.42.1. Ticket::Frontend::MoveType

Description:	Determines if the list of possible queues to move to ticket into should be displayed in a dropdown list or in a new window in the agent interface. If "New Window" is set you can add a move note to the ticket.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMove
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::MoveType'} = 'form';</code>

6.42.2. Ticket::Frontend::AgentTicketMove###State

Description:	Allows to set a new ticket state in the move ticket screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMove
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketMove'}->{'State'} = '1';</code>

6.42.3. Ticket::Frontend::AgentTicketMove###State-Type

Description:	Defines the next state of a ticket after being moved to another queue, in the move ticket screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMove
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketMove'}->{'StateType'} = ['open', 'closed'];</code>

6.42.4. Ticket::Frontend::AgentTicketMove###Priority

Description:	Shows the ticket priority options in the move ticket screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMove
Valid:	0

Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketMove'}->{'Priority'} = '0';</code>

6.42.5. Ticket::Frontend::AgentTicketMove###RequiredLock

Description:	Automatically lock and set owner to current Agent after opening the move ticket screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMove
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketMove'}->{'RequiredLock'} = '1';</code>

6.42.6. Ticket::Frontend::AgentTicketMove###NextScreen

Description:	Determines the next screen after the ticket is moved. LastScreen-Overview will return the last overview screen (e.g. search results, queueview, dashboard). TicketZoom will return to the TicketZoom.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMove
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketMove'}->{'NextScreen'} = 'TicketZoom';</code>

6.42.7. Ticket::Frontend::AgentTicketMove###Subject

Description:	Sets the default subject for notes added in the ticket move screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMove
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketMove'}->{'Subject'} = '\$Text{"Change Queue"}';</code>

6.42.8. Ticket::Frontend::AgentTicketMove###Body

Description:	Sets the default body text for notes added in the ticket move screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMove
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketMove'}->{'Body'} = '';</code>

6.42.9. Ticket::Frontend::AgentTicketMove###Rich-TextWidth

Description:	Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMove
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketMove'}->{'RichTextWidth'} = '620';</code>

6.42.10. Ticket::Frontend::AgentTicketMove###Rich-TextHeight

Description:	Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMove
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketMove'}->{'RichTextHeight'} = '100';</code>

6.42.11. Ticket::Frontend::AgentTicketMove###DynamicField

Description:	Dynamic fields shown in the ticket move screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMove
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketMove'}->{'DynamicField'} = {};</code>

6.43. Frontend::Agent::Ticket::ViewNote

6.43.1. Ticket::Frontend::AgentTicketNote###Permission

Description:	Required permissions to use the ticket note screen in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	1

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Permission'} = 'note';</code>
-----------------	--

6.43.2. Ticket::Frontend::AgentTicketNote###RequiredLock

Description:	Defines if a ticket lock is required in the ticket note screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'RequiredLock'} = '0';</code>

6.43.3. Ticket::Frontend::AgentTicketNote###Ticket-Type

Description:	Sets the ticket type in the ticket note screen of the agent interface (Ticket::Type needs to be activated).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'TicketType'} = '0';</code>

6.43.4. Ticket::Frontend::AgentTicketNote###Service

Description:	Sets the service in the ticket note screen of the agent interface (Ticket::Service needs to be activated).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Service'} = '0';</code>

6.43.5. Ticket::Frontend::AgentTicketNote###Service-Mandatory

Description:	Sets if service must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'ServiceMandatory'} = '0';</code>

6.43.6. Ticket::Frontend::AgentTicketNote###SLA-Mandatory

Description:	Sets if SLA must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'SLAMandatory'} = '0';</code>

6.43.7. Ticket::Frontend::AgentTicketNote###Queue

Description:	Sets the queue in the ticket note screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Queue'} = '0';</code>

6.43.8. Ticket::Frontend::AgentTicketNote###Owner

Description:	Sets the ticket owner in the ticket note screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Owner'} = '0';</code>

6.43.9. Ticket::Frontend::AgentTicketNote###Owner-Mandatory

Description:	Sets if ticket owner must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'OwnerMandatory'} = '0';</code>

6.43.10. Ticket::Frontend::AgentTicketNote###Responsible

Description:	Sets the responsible agent of the ticket in the ticket note screen of the agent interface.
--------------	--

Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Responsible'} = '0';</code>

6.43.11. Ticket::Frontend::AgentTicketNote###State

Description:	If a note is added by an agent, sets the state of a ticket in the ticket note screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'State'} = '0';</code>

6.43.12. Ticket::Frontend::AgentTicketNote###State-Type

Description:	Defines the next state of a ticket after adding a note, in the ticket note screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'StateType'} = ['open', 'closed', 'pending reminder', 'pending auto'];</code>

6.43.13. Ticket::Frontend::AgentTicketNote###StateDefault

Description:	Defines the default next state of a ticket after adding a note, in the ticket note screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'StateDefault'} = 'open';</code>

6.43.14. Ticket::Frontend::AgentTicketNote###Note

Description:	Allows adding notes in the ticket note screen of the agent interface.
--------------	---

Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Note'} = '1';</code>

6.43.15. Ticket::Frontend::AgentTicketNote###Note-Mandatory

Description:	Sets if note must be filled in by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'NoteMandatory'} = '1';</code>

6.43.16. Ticket::Frontend::AgentTicketNote###Subject

Description:	Sets the default subject for notes added in the ticket note screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Subject'} = '\$Text{"Note"}';</code>

6.43.17. Ticket::Frontend::AgentTicketNote###Body

Description:	Sets the default body text for notes added in the ticket note screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Body'} = '';</code>

6.43.18. Ticket::Frontend::AgentTicketNote###InvolvedAgent

Description:	Shows a list of all the involved agents on this ticket, in the ticket note screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	0
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'InvolvedAgent'} = '0';</code>
-----------------	--

6.43.19. Ticket::Frontend::AgentTicketNote###InformAgent

Description:	Shows a list of all the possible agents (all agents with note permissions on the queue/ticket) to determine who should be informed about this note, in the ticket note screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'InformAgent'} = '0';</code>

6.43.20. Ticket::Frontend::AgentTicketNote###ArticleTypeDefault

Description:	Defines the default type of the note in the ticket note screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'ArticleTypeDefault'} = 'note-internal';</code>

6.43.21. Ticket::Frontend::AgentTicketNote###ArticleTypes

Description:	Specifies the available note types for this ticket mask. If the option is deselected, ArticleTypeDefault is used and the option is removed from the mask.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'ArticleTypes'} = { 'note-external' => '1', 'note-internal' => '1', 'note-report' => '0' };</code>

6.43.22. Ticket::Frontend::AgentTicketNote###Priority

Description:	Shows the ticket priority options in the ticket note screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote

Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Priority'} = '0';</code>

6.43.23. Ticket::Frontend::AgentTicketNote###PriorityDefault

Description:	Defines the default ticket priority in the ticket note screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'PriorityDefault'} = '3 normal';</code>

6.43.24. Ticket::Frontend::AgentTicketNote###Title

Description:	Shows the title fields in the ticket note screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Title'} = '0';</code>

6.43.25. Ticket::Frontend::AgentTicketNote###HistoryType

Description:	Defines the history type for the ticket note screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'HistoryType'} = 'AddNote';</code>

6.43.26. Ticket::Frontend::AgentTicketNote###HistoryComment

Description:	Defines the history comment for the ticket note screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'HistoryComment'} = '%%Note';</code>
-----------------	--

6.43.27. Ticket::Frontend::AgentTicketNote###DynamicField

Description:	Dynamic fields shown in the ticket note screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'DynamicField'} = {};</code>

6.43.28. Ticket::Frontend::AgentTicketNote###RichTextWidth

Description:	Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'RichTextWidth'} = '620';</code>

6.43.29. Ticket::Frontend::AgentTicketNote###RichTextHeight

Description:	Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'RichTextHeight'} = '100';</code>

6.44. Frontend::Agent::Ticket::ViewOwner

6.44.1. Ticket::Frontend::AgentTicketOwner###Permission

Description:	Required permissions to use the ticket owner screen of a zoomed ticket in the agent interface.
Group:	Ticket

SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Permission'} = 'owner';</code>

6.44.2. Ticket::Frontend::AgentTicketOwner###RequiredLock

Description:	Defines if a ticket lock is required in the ticket owner screen of a zoomed ticket in the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'RequiredLock'} = '0';</code>

6.44.3. Ticket::Frontend::AgentTicketOwner###TicketType

Description:	Sets the ticket type in the ticket owner screen of a zoomed ticket in the agent interface (Ticket::Type needs to be activated).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'TicketType'} = '0';</code>

6.44.4. Ticket::Frontend::AgentTicketOwner###Service

Description:	Sets the service in the ticket owner screen of a zoomed ticket in the agent interface (Ticket::Service needs to be activated).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Service'} = '0';</code>

6.44.5. Ticket::Frontend::AgentTicketOwner###ServiceMandatory

Description:	Sets if service must be selected by the agent.
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Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'ServiceMandatory'} = '0';</code>

6.44.6. Ticket::Frontend::AgentTicketOwner###SLA-Mandatory

Description:	Sets if SLA must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'SLAMandatory'} = '0';</code>

6.44.7. Ticket::Frontend::AgentTicketOwner###Queue

Description:	Sets the queue in the ticket owner screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Queue'} = '0';</code>

6.44.8. Ticket::Frontend::AgentTicketOwner###Owner

Description:	Sets the ticket owner in the ticket owner screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Owner'} = '1';</code>

6.44.9. Ticket::Frontend::AgentTicketOwner###OwnerMandatory

Description:	Sets if ticket owner must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'OwnerMandatory'} = '1';</code>
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6.44.10. Ticket::Frontend::AgentTicketOwner###Responsible

Description:	Sets the responsible agent of the ticket in the ticket owner screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Responsible'} = '0';</code>

6.44.11. Ticket::Frontend::AgentTicketOwner###State

Description:	If a note is added by an agent, sets the state of the ticket in the ticket owner screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'State'} = '0';</code>

6.44.12. Ticket::Frontend::AgentTicketOwner###StateType

Description:	Defines the next state of a ticket after adding a note, in the ticket owner screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'StateType'} = ['open', 'pending reminder', 'pending auto'];</code>

6.44.13. Ticket::Frontend::AgentTicketOwner###StateDefault

Description:	Defines the default next state of a ticket after adding a note, in the ticket owner screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1

Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'StateDefault'} = 'open';</code>

6.44.14. Ticket::Frontend::AgentTicketOwner###Note

Description:	Allows adding notes in the ticket owner screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Note'} = '1';</code>

6.44.15. Ticket::Frontend::AgentTicketOwner###Note-Mandatory

Description:	Sets if note must be filled in by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'NoteMandatory'} = '1';</code>

6.44.16. Ticket::Frontend::AgentTicketOwner###Subject

Description:	Sets the default subject for notes added in the ticket owner screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Subject'} = '\$Text{"Owner Update"}!';</code>

6.44.17. Ticket::Frontend::AgentTicketOwner###Body

Description:	Sets the default body text for notes added in the ticket owner screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Body'} = '';</code>

6.44.18. Ticket::Frontend::AgentTicketOwner###InvolvedAgent

Description:	Shows a list of all the involved agents on this ticket, in the ticket owner screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'InvolvedAgent'} = '0';</code>

6.44.19. Ticket::Frontend::AgentTicketOwner###InformAgent

Description:	Shows a list of all the possible agents (all agents with note permissions on the queue/ticket) to determine who should be informed about this note, in the ticket owner screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'InformAgent'} = '0';</code>

6.44.20. Ticket::Frontend::AgentTicketOwner###ArticleTypeDefault

Description:	Defines the default type of the note in the ticket owner screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'ArticleTypeDefault'} = 'note-internal';</code>

6.44.21. Ticket::Frontend::AgentTicketOwner###ArticleTypes

Description:	Specifies the available note types for this ticket mask. If the option is deselected, ArticleTypeDefault is used and the option is removed from the mask.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0

Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'ArticleTypes'} = { 'note-external' => '0', 'note-internal' => '1', 'note-report' => '0' };</pre>
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6.44.22. Ticket::Frontend::AgentTicketOwner###Priority

Description:	Shows the ticket priority options in the ticket owner screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Priority'} = '0';</pre>

6.44.23. Ticket::Frontend::AgentTicketOwner###PriorityDefault

Description:	Defines the default ticket priority in the ticket owner screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'PriorityDefault'} = '3 normal';</pre>

6.44.24. Ticket::Frontend::AgentTicketOwner###Title

Description:	Shows the title fields in the ticket owner screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Title'} = '0';</pre>

6.44.25. Ticket::Frontend::AgentTicketOwner###HistoryType

Description:	Defines the history type for the ticket owner screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'HistoryType'} = 'AddNote';</code>
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6.44.26. Ticket::Frontend::AgentTicketOwner###HistoryComment

Description:	Defines the history comment for the ticket owner screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'HistoryComment'} = '%0Owner';</code>

6.44.27. Ticket::Frontend::AgentTicketOwner###DynamicField

Description:	Dynamic fields shown in the ticket owner screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'DynamicField'} = {};</code>

6.44.28. Ticket::Frontend::AgentTicketOwner###RichTextWidth

Description:	Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'RichTextWidth'} = '620';</code>

6.44.29. Ticket::Frontend::AgentTicketOwner###RichTextHeight

Description:	Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1

Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'RichTextHeight'} = '100';</code>

6.45. Frontend::Agent::Ticket::ViewPending

6.45.1. Ticket::Frontend::AgentTicketPending###Permission

Description:	Required permissions to use the ticket pending screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Permission'} = 'pending';</code>

6.45.2. Ticket::Frontend::AgentTicketPending###RequiredLock

Description:	Defines if a ticket lock is required in the ticket pending screen of a zoomed ticket in the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'RequiredLock'} = '1';</code>

6.45.3. Ticket::Frontend::AgentTicketPending###TicketType

Description:	Sets the ticket type in the ticket pending screen of a zoomed ticket in the agent interface (Ticket::Type needs to be activated).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'TicketType'} = '0';</code>

6.45.4. Ticket::Frontend::AgentTicketPending###Service

Description:	Sets the service in the ticket pending screen of a zoomed ticket in the agent interface (Ticket::Service needs to be activated).
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Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Service'} = '0';</code>

6.45.5. Ticket::Frontend::AgentTicketPending###ServiceMandatory

Description:	Sets if service must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'ServiceMandatory'} = '0';</code>

6.45.6. Ticket::Frontend::AgentTicketPending###SLAMandatory

Description:	Sets if SLA must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'SLAMandatory'} = '0';</code>

6.45.7. Ticket::Frontend::AgentTicketPending###Queue

Description:	Sets the queue in the ticket pending screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Queue'} = '0';</code>

6.45.8. Ticket::Frontend::AgentTicketPending###Owner

Description:	Sets the ticket owner in the ticket pending screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending

Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Owner'} = '0';</code>

6.45.9. Ticket::Frontend::AgentTicketPending###OwnerMandatory

Description:	Sets if ticket owner must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'OwnerMandatory'} = '0';</code>

6.45.10. Ticket::Frontend::AgentTicketPending###Responsible

Description:	Sets the responsible agent of the ticket in the ticket pending screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Responsible'} = '0';</code>

6.45.11. Ticket::Frontend::AgentTicketPending###State

Description:	If a note is added by an agent, sets the state of the ticket in the ticket pending screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'State'} = '1';</code>

6.45.12. Ticket::Frontend::AgentTicketPending###StateType

Description:	Defines the next state of a ticket after adding a note, in the ticket pending screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	1

Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'StateType'} = ['pending reminder', 'pending auto'];</pre>
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6.45.13. Ticket::Frontend::AgentTicketPending###StateDefault

Description:	Defines the default next state of a ticket after adding a note, in the ticket pending screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'StateDefault'} = 'pending reminder';</pre>

6.45.14. Ticket::Frontend::AgentTicketPending###Note

Description:	Allows adding notes in the ticket pending screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Note'} = '1';</pre>

6.45.15. Ticket::Frontend::AgentTicketPending###NoteMandatory

Description:	Sets if note must be filled in by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'NoteMandatory'} = '1';</pre>

6.45.16. Ticket::Frontend::AgentTicketPending###Subject

Description:	Sets the default subject for notes added in the ticket pending screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Subject'} = '\$Text{"Pending"}!';</code>
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6.45.17. Ticket::Frontend::AgentTicketPending###Body

Description:	Sets the default body text for notes added in the ticket pending screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Body'} = '';</code>

6.45.18. Ticket::Frontend::AgentTicketPending###InvolvedAgent

Description:	Shows a list of all the involved agents on this ticket, in the ticket pending screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'InvolvedAgent'} = '0';</code>

6.45.19. Ticket::Frontend::AgentTicketPending###InformAgent

Description:	Shows a list of all the possible agents (all agents with note permissions on the queue/ticket) to determine who should be informed about this note, in the ticket pending screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'InformAgent'} = '0';</code>

6.45.20. Ticket::Frontend::AgentTicketPending###ArticleTypeDefault

Description:	Defines the default type of the note in the ticket pending screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1

Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'ArticleTypeDefault'} = 'note-internal';</code>

6.45.21. Ticket::Frontend::AgentTicketPending###ArticleTypes

Description:	Specifies the available note types for this ticket mask. If the option is deselected, ArticleTypeDefault is used and the option is removed from the mask.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'ArticleTypes'} = { 'note-external' => '0', 'note-internal' => '1', 'note-report' => '0' };</code>

6.45.22. Ticket::Frontend::AgentTicketPending###Priority

Description:	Shows the ticket priority options in the ticket pending screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Priority'} = '0';</code>

6.45.23. Ticket::Frontend::AgentTicketPending###PriorityDefault

Description:	Defines the default ticket priority in the ticket pending screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'PriorityDefault'} = '3 normal';</code>

6.45.24. Ticket::Frontend::AgentTicketPending###Title

Description:	Shows the title fields in the ticket pending screen of a zoomed ticket in the agent interface.
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Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Title'} = '0';</code>

6.45.25. Ticket::Frontend::AgentTicketPending###HistoryType

Description:	Defines the history type for the ticket pending screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'HistoryType'} = 'AddNote';</code>

6.45.26. Ticket::Frontend::AgentTicketPending###HistoryComment

Description:	Defines the history comment for the ticket pending screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'HistoryComment'} = '%Pending';</code>

6.45.27. Ticket::Frontend::AgentTicketPending###DynamicField

Description:	Dynamic fields shown in the ticket pending screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'DynamicField'} = {};</code>

6.45.28. Ticket::Frontend::AgentTicketPending###RichTextWidth

Description:	Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
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Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'RichTextWidth'} = '620';</code>

6.45.29. Ticket::Frontend::AgentTicketPending###RichTextHeight

Description:	Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'RichTextHeight'} = '100';</code>

6.46. Frontend::Agent::Ticket::ViewPhoneInbound

6.46.1. Ticket::Frontend::AgentTicketPhoneInbound###Permission

Description:	Required permissions to use the ticket phone inbound screen in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneInbound
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'Permission'} = 'phone';</code>

6.46.2. Ticket::Frontend::AgentTicketPhoneInbound###RequiredLock

Description:	Defines if a ticket lock is required in the ticket phone inbound screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneInbound
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'RequiredLock'} = '0';</code>

6.46.3. Ticket::Frontend::AgentTicketPhoneInbound###ArticleType

Description:	Defines the default type of the note in the ticket phone inbound screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneInbound
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'ArticleType'} = 'phone';</code>

6.46.4. Ticket::Frontend::AgentTicketPhoneInbound###SenderType

Description:	Defines the default sender type for phone tickets in the ticket phone inbound screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneInbound
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'SenderType'} = 'customer';</code>

6.46.5. Ticket::Frontend::AgentTicketPhoneInbound###Subject

Description:	Defines the default subject for phone tickets in the ticket phone inbound screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneInbound
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'Subject'} = '\$Text{"Phone call"}!';</code>

6.46.6. Ticket::Frontend::AgentTicketPhoneInbound###Body

Description:	Defines the default note body text for phone tickets in the ticket phone inbound screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneInbound
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'Body'} = '';</code>

6.46.7. Ticket::Frontend::AgentTicketPhoneInbound###State

Description:	Defines the default ticket next state after adding a phone note in the ticket phone inbound screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneInbound
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'State'} = 'open';</code>

6.46.8. Ticket::Frontend::AgentTicketPhoneInbound###StateType

Description:	Next possible ticket states after adding a phone note in the ticket phone inbound screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneInbound
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'StateType'} = ['open', 'pending auto', 'pending reminder', 'closed'];</code>

6.46.9. Ticket::Frontend::AgentTicketPhoneInbound###HistoryType

Description:	Defines the history type for the ticket phone inbound screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneInbound
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'HistoryType'} = 'PhoneCallCustomer';</code>

6.46.10. Ticket::Frontend::AgentTicketPhoneInbound###HistoryComment

Description:	Defines the history comment for the ticket phone inbound screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneInbound
Valid:	1
Required:	1

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'HistoryComment'} = '';</code>
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6.46.11. Ticket::Frontend::AgentTicketPhoneInbound###DynamicField

Description:	Dynamic fields shown in the ticket phone inbound screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneInbound
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'DynamicField'} = {};</code>

6.46.12. Ticket::Frontend::AgentTicketPhoneInbound###RichTextWidth

Description:	Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneInbound
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'RichTextWidth'} = '475';</code>

6.46.13. Ticket::Frontend::AgentTicketPhoneInbound###RichTextHeight

Description:	Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneInbound
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneInbound'}->{'RichTextHeight'} = '200';</code>

6.47. Frontend::Agent::Ticket::ViewPhoneNew

6.47.1. Ticket::Frontend::AgentTicketPhone###Priority

Description:	Sets the default priority for new phone tickets in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneNew

Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'Priority'} = '3 normal';</code>

6.47.2. Ticket::Frontend::AgentTicketPhone###Article-Type

Description:	Sets the default article type for new phone tickets in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'ArticleType'} = 'phone';</code>

6.47.3. Ticket::Frontend::AgentTicketPhone###SenderType

Description:	Sets the default sender type for new phone ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'SenderType'} = 'customer';</code>

6.47.4. Ticket::Frontend::AgentTicketPhone::AllowMultipleFrom

Description:	Controls if more than one from entry can be set in the new phone ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone::AllowMultipleFrom'} = '1';</code>

6.47.5. Ticket::Frontend::AgentTicketPhone###Subject

Description:	Sets the default subject for new phone tickets (e.g. 'Phone call') in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneNew
Valid:	1

Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'Subject'} = '';</code>

6.47.6. Ticket::Frontend::AgentTicketPhone###Body

Description:	Sets the default note text for new telephone tickets. E.g 'New ticket via call' in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'Body'} = '';</code>

6.47.7. Ticket::Frontend::AgentTicketPhone###StateDefault

Description:	Sets the default next state for new phone tickets in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'StateDefault'} = 'open';</code>

6.47.8. Ticket::Frontend::AgentTicketPhone###StateType

Description:	Determines the next possible ticket states, after the creation of a new phone ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'StateType'} = ['open', 'pending auto', 'pending reminder', 'closed'];</code>

6.47.9. Ticket::Frontend::AgentTicketPhone###HistoryType

Description:	Defines the history type for the phone ticket screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneNew
Valid:	1
Required:	1

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'HistoryType'} = 'PhoneCallCustomer';</code>
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6.47.10. Ticket::Frontend::AgentTicketPhone###HistoryComment

Description:	Defines the history comment for the phone ticket screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'HistoryComment'} = '';</code>

6.47.11. Ticket::Frontend::AgentTicketPhone###SplitLinkType

Description:	Sets the default link type of splitted tickets in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneNew
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'SplitLinkType'} = { 'Direction' => 'Target', 'LinkType' => 'ParentChild' };</code>

6.47.12. Ticket::Frontend::AgentTicketPhone###ServiceMandatory

Description:	Sets if service must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneNew
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'ServiceMandatory'} = '0';</code>

6.47.13. Ticket::Frontend::AgentTicketPhone###SLAMandatory

Description:	Sets if SLA must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneNew
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'SLAMandatory'} = '0';</code>

6.47.14. Ticket::Frontend::AgentTicketPhone###DynamicField

Description:	Dynamic fields shown in the ticket phone screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneNew
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'DynamicField'} = {};</code>

6.47.15. Ticket::Frontend::AgentTicketPhone###RichTextWidth

Description:	Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneNew
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'RichTextWidth'} = '620';</code>

6.47.16. Ticket::Frontend::AgentTicketPhone###RichTextHeight

Description:	Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneNew
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'RichTextHeight'} = '320';</code>

6.48. Frontend::Agent::Ticket::ViewPhoneOutbound

6.48.1. Ticket::Frontend::AgentTicketPhoneOutbound###Permission

Description:	Required permissions to use the ticket phone outbound screen in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneOutbound
Valid:	1

Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'Permission'} = 'phone';</code>

6.48.2. Ticket::Frontend::AgentTicketPhoneOutbound###RequiredLock

Description:	Defines if a ticket lock is required in the ticket phone outbound screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneOutbound
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'RequiredLock'} = '1';</code>

6.48.3. Ticket::Frontend::AgentTicketPhoneOutbound###ArticleType

Description:	Defines the default type of the note in the ticket phone outbound screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneOutbound
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'ArticleType'} = 'phone';</code>

6.48.4. Ticket::Frontend::AgentTicketPhoneOutbound###SenderType

Description:	Defines the default sender type for phone tickets in the ticket phone outbound screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneOutbound
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'SenderType'} = 'agent';</code>

6.48.5. Ticket::Frontend::AgentTicketPhoneOutbound###Subject

Description:	Defines the default subject for phone tickets in the ticket phone outbound screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneOutbound

Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'Subject'} = '\$Text{"Phone call"}!';</code>

6.48.6. Ticket::Frontend::AgentTicketPhoneOutbound###Body

Description:	Defines the default note body text for phone tickets in the ticket phone outbound screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneOutbound
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'Body'} = '';</code>

6.48.7. Ticket::Frontend::AgentTicketPhoneOutbound###State

Description:	Defines the default ticket next state after adding a phone note in the ticket phone outbound screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneOutbound
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'State'} = 'closed successful';</code>

6.48.8. Ticket::Frontend::AgentTicketPhoneOutbound###StateType

Description:	Next possible ticket states after adding a phone note in the ticket phone outbound screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneOutbound
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'StateType'} = ['open', 'pending auto', 'pending reminder', 'closed'];</code>

6.48.9. Ticket::Frontend::AgentTicketPhoneOutbound###HistoryType

Description:	Defines the history type for the ticket phone outbound screen action, which gets used for ticket history in the agent interface.
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Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneOutbound
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'HistoryType'} = 'PhoneCallAgent';</code>

6.48.10. Ticket::Frontend::AgentTicketPhoneOutbound###HistoryComment

Description:	Defines the history comment for the ticket phone outbound screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneOutbound
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'HistoryComment'} = '';</code>

6.48.11. Ticket::Frontend::AgentTicketPhoneOutbound###DynamicField

Description:	Dynamic fields shown in the ticket phone outbound screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneOutbound
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'DynamicField'} = {};</code>

6.48.12. Ticket::Frontend::AgentTicketPhoneOutbound###RichTextWidth

Description:	Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneOutbound
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'RichTextWidth'} = '475';</code>

6.48.13. Ticket::Frontend::AgentTicketPhoneOutbound###RichTextHeight

Description:	Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
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Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneOutbound
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'RichTextHeight'} = '200';</code>

6.49. Frontend::Agent::Ticket::ViewPrint

6.49.1. Ticket::Frontend::AgentTicketPrint###DynamicField

Description:	Dynamic fields shown in the ticket print screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPrint
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPrint'}->{'DynamicField'} = {};</code>

6.50. Frontend::Agent::Ticket::ViewPriority

6.50.1. Ticket::Frontend::AgentTicketPriority###Permission

Description:	Required permissions to use the ticket priority screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Permission'} = 'priority';</code>

6.50.2. Ticket::Frontend::AgentTicketPriority###RequiredLock

Description:	Defines if a ticket lock is required in the ticket priority screen of a zoomed ticket in the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'RequiredLock'} = '1';</code>
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6.50.3. Ticket::Frontend::AgentTicketPriority###TicketType

Description:	Sets the ticket type in the ticket priority screen of a zoomed ticket in the agent interface (Ticket::Type needs to be activated).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'TicketType'} = '0';</code>

6.50.4. Ticket::Frontend::AgentTicketPriority###Service

Description:	Sets the service in the ticket priority screen of a zoomed ticket in the agent interface (Ticket::Service needs to be activated).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Service'} = '0';</code>

6.50.5. Ticket::Frontend::AgentTicketPriority###ServiceMandatory

Description:	Sets if service must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'ServiceMandatory'} = '0';</code>

6.50.6. Ticket::Frontend::AgentTicketPriority###SLAMandatory

Description:	Sets if SLA must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'SLAMandatory'} = '0';</code>
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6.50.7. Ticket::Frontend::AgentTicketPriority###Queue

Description:	Sets the queue in the ticket priority screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Queue'} = '0';</code>

6.50.8. Ticket::Frontend::AgentTicketPriority###Owner

Description:	Sets the ticket owner in the ticket priority screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Owner'} = '0';</code>

6.50.9. Ticket::Frontend::AgentTicketPriority###OwnerMandatory

Description:	Sets if ticket owner must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'OwnerMandatory'} = '0';</code>

6.50.10. Ticket::Frontend::AgentTicketPriority###Responsible

Description:	Sets the responsible agent of the ticket in the ticket priority screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Responsible'} = '0';</code>

6.50.11. Ticket::Frontend::AgentTicketPriority###State

Description:	If a note is added by an agent, sets the state of the ticket in the ticket priority screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'State'} = '0';</code>

6.50.12. Ticket::Frontend::AgentTicketPriority###StateType

Description:	Defines the next state of a ticket after adding a note, in the ticket priority screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'StateType'} = ['open', 'pending reminder', 'pending auto'];</code>

6.50.13. Ticket::Frontend::AgentTicketPriority###StateDefault

Description:	Defines the default next state of a ticket after adding a note, in the ticket priority screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'StateDefault'} = 'open';</code>

6.50.14. Ticket::Frontend::AgentTicketPriority###Note

Description:	Allows adding notes in the ticket priority screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Note'} = '1';</code>
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6.50.15. Ticket::Frontend::AgentTicketPriority###NoteMandatory

Description:	Sets if note must be filled in by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'NoteMandatory'} = '1';</code>

6.50.16. Ticket::Frontend::AgentTicketPriority###Subject

Description:	Sets the default subject for notes added in the ticket priority screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Subject'} = '\$Text{"Priority Update"}!';</code>

6.50.17. Ticket::Frontend::AgentTicketPriority###Body

Description:	Sets the default body text for notes added in the ticket priority screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Body'} = '';</code>

6.50.18. Ticket::Frontend::AgentTicketPriority###InvolvedAgent

Description:	Shows a list of all the involved agents on this ticket, in the ticket priority screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'InvolvedAgent'} = '0';</code>

6.50.19. Ticket::Frontend::AgentTicketPriority###InformAgent

Description:	Shows a list of all the possible agents (all agents with note permissions on the queue/ticket) to determine who should be informed about this note, in the ticket priority screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'InformAgent'} = '0';</code>

6.50.20. Ticket::Frontend::AgentTicketPriority###ArticleTypeDefault

Description:	Defines the default type of the note in the ticket priority screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'ArticleTypeDefault'} = 'note-internal';</code>

6.50.21. Ticket::Frontend::AgentTicketPriority###ArticleTypes

Description:	Specifies the available note types for this ticket mask. If the option is deselected, ArticleTypeDefault is used and the option is removed from the mask.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'ArticleTypes'} = { 'note-external' => '0', 'note-internal' => '1', 'note-report' => '0' };</code>

6.50.22. Ticket::Frontend::AgentTicketPriority###Priority

Description:	Shows the ticket priority options in the ticket priority screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority

Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Priority'} = '1';</code>

6.50.23. Ticket::Frontend::AgentTicketPriority###PriorityDefault

Description:	Defines the default ticket priority in the ticket priority screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'PriorityDefault'} = '3 normal';</code>

6.50.24. Ticket::Frontend::AgentTicketPriority###Title

Description:	Shows the title fields in the ticket priority screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Title'} = '0';</code>

6.50.25. Ticket::Frontend::AgentTicketPriority###HistoryType

Description:	Defines the history type for the ticket priority screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'HistoryType'} = 'AddNote';</code>

6.50.26. Ticket::Frontend::AgentTicketPriority###HistoryComment

Description:	Defines the history comment for the ticket priority screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1

Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'HistoryComment'} = '%Priority';</code>

6.50.27. Ticket::Frontend::AgentTicketPriority###DynamicField

Description:	Dynamic fields shown in the ticket priority screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'DynamicField'} = {};</code>

6.50.28. Ticket::Frontend::AgentTicketPriority###RichTextWidth

Description:	Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'RichTextWidth'} = '620';</code>

6.50.29. Ticket::Frontend::AgentTicketPriority###RichTextHeight

Description:	Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'RichTextHeight'} = '100';</code>

6.51. Frontend::Agent::Ticket::ViewQueue

6.51.1. Ticket::Frontend::AgentTicketQueue###StripEmptyLines

Description:	Strips empty lines on the ticket preview in the queue view.
Group:	Ticket

SubGroup:	Frontend::Agent::Ticket::ViewQueue
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'StripEmptyLines'} = '0';</code>

6.51.2. Ticket::Frontend::AgentTicketQueue###ViewAllPossibleTickets

Description:	Shows all both ro and rw queues in the queue view.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewQueue
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'ViewAllPossibleTickets'} = '0';</code>

6.51.3. Ticket::Frontend::AgentTicketQueue###HighlightAge1

Description:	Sets the age in minutes (first level) for highlighting queues that contain untouched tickets.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewQueue
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'HighlightAge1'} = '1440';</code>

6.51.4. Ticket::Frontend::AgentTicketQueue###HighlightAge2

Description:	Sets the age in minutes (second level) for highlighting queues that contain untouched tickets.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewQueue
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'HighlightAge2'} = '2880';</code>

6.51.5. Ticket::Frontend::AgentTicketQueue###Blink

Description:	Activates a blinking mechanism of the queue that contains the oldest ticket.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewQueue
Valid:	1

Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'Blink'} = '1';</code>

6.51.6. Ticket::Frontend::AgentTicketQueue###QueueSort

Description:	Sorts the tickets (ascendingly or descendingly) when a single queue is selected in the queue view and after the tickets are sorted by priority. Values: 0 = ascending (oldest on top, default), 1 = descending (youngest on top). Use the QueueID for the key and 0 or 1 for value.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewQueue
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'QueueSort'} = { '3' => '0', '7' => '1' };</code>

6.51.7. Ticket::Frontend::AgentTicketQueue###SortBy::Default

Description:	Defines the default sort criteria for all queues displayed in the queue view.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewQueue
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'SortBy::Default'} = 'Age';</code>

6.51.8. Ticket::Frontend::AgentTicketQueue###PreSort::ByPriority

Description:	Defines if a pre-sorting by priority should be done in the queue view.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewQueue
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'PreSort::ByPriority'} = '1';</code>

6.51.9. Ticket::Frontend::AgentTicketQueue###Order::Default

Description:	Defines the default sort order for all queues in the queue view, after priority sort.
--------------	---

Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewQueue
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'Order::Default'} = 'Up';</code>

6.51.10. Ticket::Frontend::AgentTicketQueue###DefaultColumns

Description:	Columns that can be filtered in the queue view of the agent interface. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewQueue
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketQueue'}->{'DefaultColumns'} = { 'Age' => '2', 'Changed' => '1', 'CustomerID' => '2', 'CustomerName' => '1', 'CustomerUserID' => '1', 'EscalationResponseTime' => '1', 'EscalationSolutionTime' => '1', 'EscalationTime' => '1', 'EscalationUpdateTime' => '1', 'Lock' => '2', 'Owner' => '2', 'PendingTime' => '1', 'Priority' => '1', 'Queue' => '2', 'Responsible' => '1', 'SLA' => '1', 'Service' => '1', 'State' => '2', 'TicketNumber' => '2', 'Title' => '2', 'Type' => '1' };</code>

6.52. Frontend::Agent::Ticket::ViewResponsible

6.52.1. Ticket::Frontend::AgentTicketResponsible-View###SortBy::Default

Description:	Defines the default ticket attribute for ticket sorting in the responsible view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	1

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsibleView'}->{'SortBy::Default'} = 'Age';</code>
-----------------	---

6.52.2. Ticket::Frontend::AgentTicketResponsible-View###Order::Default

Description:	Defines the default ticket order in the responsible view of the agent interface. Up: oldest on top. Down: latest on top.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsibleView'}->{'Order::Default'} = 'Up';</code>

6.52.3. Ticket::Frontend::AgentTicketResponsible###Permission

Description:	Required permissions to use the ticket responsible screen in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Permission'} = 'responsible';</code>

6.52.4. Ticket::Frontend::AgentTicketResponsible###RequiredLock

Description:	Defines if a ticket lock is required in the ticket responsible screen of the agent interface (if the ticket isn't locked yet, the ticket gets locked and the current agent will be set automatically as its owner).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'RequiredLock'} = '0';</code>

6.52.5. Ticket::Frontend::AgentTicketResponsible###TicketType

Description:	Sets the ticket type in the ticket responsible screen of the agent interface (Ticket::Type needs to be activated).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1

Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'TicketType'} = '0';</code>

6.52.6. Ticket::Frontend::AgentTicketResponsible###Service

Description:	Sets the service in the ticket responsible screen of the agent interface (Ticket::Service needs to be activated).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Service'} = '0';</code>

6.52.7. Ticket::Frontend::AgentTicketResponsible###ServiceMandatory

Description:	Sets if service must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'ServiceMandatory'} = '0';</code>

6.52.8. Ticket::Frontend::AgentTicketResponsible###SLAMandatory

Description:	Sets if SLA must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'SLAMandatory'} = '0';</code>

6.52.9. Ticket::Frontend::AgentTicketResponsible###Queue

Description:	Sets the queue in the ticket responsible screen of a zoomed ticket in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Queue'} = '0';</code>
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6.52.10. Ticket::Frontend::AgentTicketResponsible###Owner

Description:	Sets the ticket owner in the ticket responsible screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Owner'} = '0';</code>

6.52.11. Ticket::Frontend::AgentTicketResponsible###OwnerMandatory

Description:	Sets if ticket owner must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'OwnerMandatory'} = '0';</code>

6.52.12. Ticket::Frontend::AgentTicketResponsible###Responsible

Description:	Sets the responsible agent of the ticket in the ticket responsible screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Responsible'} = '1';</code>

6.52.13. Ticket::Frontend::AgentTicketResponsible###State

Description:	If a note is added by an agent, sets the state of a ticket in the ticket responsible screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'State'} = '0';</code>

6.52.14. Ticket::Frontend::AgentTicketResponsible###StateType

Description:	Defines the next state of a ticket after adding a note, in the ticket responsible screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'StateType'} = ['open', 'pending reminder', 'pending auto'];</pre>

6.52.15. Ticket::Frontend::AgentTicketResponsible###StateDefault

Description:	Defines the default next state of a ticket after adding a note, in the ticket responsible screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'StateDefault'} = 'open';</pre>

6.52.16. Ticket::Frontend::AgentTicketResponsible###Note

Description:	Allows adding notes in the ticket responsible screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Note'} = '1';</pre>

6.52.17. Ticket::Frontend::AgentTicketResponsible###NoteMandatory

Description:	Sets if note must be filled in by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'NoteMandatory'} = '1';</code>
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6.52.18. Ticket::Frontend::AgentTicketResponsible###Subject

Description:	Sets the default subject for notes added in the ticket responsible screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Subject'} = '\$Text{"Responsible Update"}!';</code>

6.52.19. Ticket::Frontend::AgentTicketResponsible###Body

Description:	Sets the default body text for notes added in the ticket responsible screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Body'} = '';</code>

6.52.20. Ticket::Frontend::AgentTicketResponsible###InvolvedAgent

Description:	Shows a list of all the involved agents on this ticket, in the ticket responsible screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'InvolvedAgent'} = '0';</code>

6.52.21. Ticket::Frontend::AgentTicketResponsible###InformAgent

Description:	Shows a list of all the possible agents (all agents with note permissions on the queue/ticket) to determine who should be informed about this note, in the ticket responsible screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	0

Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'InformAgent'} = '0';</code>

6.52.22. Ticket::Frontend::AgentTicketResponsible###ArticleTypeDefault

Description:	Defines the default type of the note in the ticket responsible screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'ArticleTypeDefault'} = 'note-internal';</code>

6.52.23. Ticket::Frontend::AgentTicketResponsible###ArticleTypes

Description:	Specifies the available note types for this ticket mask. If the option is deselected, ArticleTypeDefault is used and the option is removed from the mask.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'ArticleTypes'} = { 'note-external' => '0', 'note-internal' => '1', 'note-report' => '0' };</code>

6.52.24. Ticket::Frontend::AgentTicketResponsible###Priority

Description:	Shows the ticket priority options in the ticket responsible screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Priority'} = '0';</code>

6.52.25. Ticket::Frontend::AgentTicketResponsible###PriorityDefault

Description:	Defines the default ticket priority in the ticket responsible screen of the agent interface.
Group:	Ticket

SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'PriorityDefault'} = '3 normal';</code>

6.52.26. Ticket::Frontend::AgentTicketResponsible###Title

Description:	Shows the title fields in the ticket responsible screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'Title'} = '1';</code>

6.52.27. Ticket::Frontend::AgentTicketResponsible###HistoryType

Description:	Defines the history type for the ticket responsible screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'HistoryType'} = 'AddNote';</code>

6.52.28. Ticket::Frontend::AgentTicketResponsible###HistoryComment

Description:	Defines the history comment for the ticket responsible screen action, which gets used for ticket history in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'HistoryComment'} = '%%Responsible';</code>

6.52.29. Ticket::Frontend::AgentTicketResponsible###DynamicField

Description:	Dynamic fields shown in the ticket responsible screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket

SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'DynamicField'} = {};</code>

6.52.30. Ticket::Frontend::AgentTicketResponsible###RichTextWidth

Description:	Defines the width for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'RichTextWidth'} = '620';</code>

6.52.31. Ticket::Frontend::AgentTicketResponsible###RichTextHeight

Description:	Defines the height for the rich text editor component for this screen. Enter number (pixels) or percent value (relative).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsible'}->{'RichTextHeight'} = '100';</code>

6.52.32. Ticket::Frontend::AgentTicketResponsible-View###DefaultColumns

Description:	Columns that can be filtered in the responsible view of the agent interface. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketResponsibleView'}->{'DefaultColumns'} = { 'Age' => '2', 'Changed' => '1', 'CustomerID' => '2', 'CustomerName' => '1', 'CustomerUserID' => '1', 'EscalationResponseTime' => '1', 'EscalationSolutionTime' => '1', 'EscalationTime' => '1',</code>

```
'EscalationUpdateTime' => '1',
'Lock' => '2',
'Owner' => '2',
'PendingTime' => '1',
'Priority' => '1',
'Queue' => '2',
'Responsible' => '1',
'SLA' => '1',
'Service' => '1',
'State' => '2',
'TicketNumber' => '2',
'Title' => '2',
'Type' => '1'
};
```

6.53. Frontend::Agent::Ticket::ViewSearch

6.53.1. Ticket::Frontend::AgentTicketSearch###ExtendedSearchCondition

Description:	Allows extended search conditions in ticket search of the agent interface. With this feature you can search e. g. with this kind of conditions like "(key1&&key2)" or "(key1 key2)".
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'ExtendedSearchCondition'} = '1';</code>

6.53.2. Ticket::Frontend::AgentTicketSearch###SearchLimit

Description:	Maximum number of tickets to be displayed in the result of a search in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'SearchLimit'} = '2000';</code>

6.53.3. Ticket::Frontend::AgentTicketSearch###SearchPageShown

Description:	Number of tickets to be displayed in each page of a search result in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'SearchPageShown'} = '40';</code>

6.53.4. Ticket::Frontend::AgentTicketSearch###SearchViewableTicketLines

Description:	Number of lines (per ticket) that are shown by the search utility in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'SearchViewableTicketLines'} = '10';</code>

6.53.5. Ticket::Frontend::AgentTicketSearch###SortBy::Default

Description:	Defines the default ticket attribute for ticket sorting of the ticket search result of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'SortBy::Default'} = 'Age';</code>

6.53.6. Ticket::Frontend::AgentTicketSearch###Order::Default

Description:	Defines the default ticket order in the ticket search result of the agent interface. Up: oldest on top. Down: latest on top.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Order::Default'} = 'Down';</code>

6.53.7. Ticket::Frontend::AgentTicketSearch###SearchArticleCSVTree

Description:	Exports the whole article tree in search result (it can affect the system performance).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'SearchArticleCSVTree'} = '0';</code>

6.53.8. Ticket::Frontend::AgentTicketSearch###SearchCSVData

Description:	Data used to export the search result in CSV format.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'SearchCSVData'} = ['TicketNumber', 'Age', 'Created', 'Closed', 'FirstLock', 'FirstResponse', 'State', 'Priority', 'Queue', 'Lock', 'Owner', 'UserFirstname', 'UserLastname', 'CustomerID', 'CustomerName', 'From', 'Subject', 'AccountedTime', 'ArticleTree', 'SolutionInMin', 'SolutionDiffInMin', 'FirstResponseInMin', 'FirstResponseDiffInMin'];</pre>

6.53.9. Ticket::Frontend::AgentTicketSearch###ArticleCreateTime

Description:	Includes article create times in the ticket search of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'ArticleCreateTime'} = '0';</pre>

6.53.10. Ticket::Frontend::AgentTicketSearch###Defaults###Fulltext

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	1
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'Fulltext'} = '';</code>
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6.53.11. Ticket::Frontend::AgentTicketSearch###Defaults###TicketNumber

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketNumber'} = '';</code>

6.53.12. Ticket::Frontend::AgentTicketSearch###Defaults###Title

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'Title'} = '';</code>

6.53.13. Ticket::Frontend::AgentTicketSearch###Defaults###From

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'From'} = '';</code>

6.53.14. Ticket::Frontend::AgentTicketSearch###Defaults###To

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'To'} = '';</code>
-----------------	---

6.53.15. Ticket::Frontend::AgentTicketSearch###Defaults###Cc

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'Cc'} = '';</code>

6.53.16. Ticket::Frontend::AgentTicketSearch###Defaults###Subject

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'Subject'} = '';</code>

6.53.17. Ticket::Frontend::AgentTicketSearch###Defaults###Body

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'Body'} = '';</code>

6.53.18. Ticket::Frontend::AgentTicketSearch###Defaults###CustomerID

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'CustomerID'} = '';</code>
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6.53.19. Ticket::Frontend::AgentTicketSearch###Defaults###CustomerUserLogin

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'CustomerUserLogin'} = '';</code>

6.53.20. Ticket::Frontend::AgentTicketSearch###Defaults###StateIDs

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'StateIDs'} = [];</code>

6.53.21. Ticket::Frontend::AgentTicketSearch###Defaults###QueueIDs

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'QueueIDs'} = [];</code>

6.53.22. Ticket::Frontend::AgentTicketSearch###Defaults###TicketCreateTimePoint

Description:	Default data to use on attribute for ticket search screen. Example: "TicketCreateTimePointFormat=year;TicketCreateTimePointStart=Last;TicketCreateTimePoint=2;"
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketCreateTimePoint'} = '';</code>
-----------------	--

6.53.23. Ticket::Frontend::AgentTicketSearch###Defaults###TicketCreateTimeSlot

Description:	Default data to use on attribute for ticket search screen. Example: "TicketCreateTimeStartYear=2010;TicketCreateTimeStartMonth=10;TicketCreateTimeStartDay=4;TicketCreateTimeStopYear=2010;TicketCreateTimeStopMonth=11;TicketCreateTimeStopDay=3;".
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketCreateTimeSlot'} = '';</code>

6.53.24. Ticket::Frontend::AgentTicketSearch###Defaults###TicketChangeTimePoint

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketChangeTimePoint'} = '';</code>

6.53.25. Ticket::Frontend::AgentTicketSearch###Defaults###TicketChangeTimeSlot

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketChangeTimeSlot'} = '';</code>

6.53.26. Ticket::Frontend::AgentTicketSearch###Defaults###TicketCloseTimePoint

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0

Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketCloseTimePoint'} = '';</code>

6.53.27. Ticket::Frontend::AgentTicketSearch###Defaults###TicketCloseTimeSlot

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketCloseTimeSlot'} = '';</code>

6.53.28. Ticket::Frontend::AgentTicketSearch###Defaults###TicketEscalationTimePoint

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketEscalationTimePoint'} = '';</code>

6.53.29. Ticket::Frontend::AgentTicketSearch###Defaults###TicketEscalationTimeSlot

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketEscalationTimeSlot'} = '';</code>

6.53.30. Ticket::Frontend::AgentTicketSearch###Defaults###ArticleCreateTimePoint

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'ArticleCreateTimePoint'} = '';</code>
-----------------	---

6.53.31. Ticket::Frontend::AgentTicketSearch###Defaults###ArticleCreateTimeSlot

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'ArticleCreateTimeSlot'} = '';</code>

6.53.32. Ticket::Frontend::AgentTicketSearch###Defaults###SearchInArchive

Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'SearchInArchive'} = '';</code>

6.53.33. Ticket::Frontend::CustomerTicketSearch###SearchArticleCSVTree

Description:	Exports the whole article tree in search result (it can affect the system performance).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketSearch'}->{'SearchArticleCSVTree'} = '0';</code>

6.53.34. Ticket::Frontend::AgentTicketSearch###DynamicField

Description:	Dynamic fields shown in the ticket search screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and shown by default.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	1
Required:	0

Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'DynamicField'} = {};</code>
-----------------	--

6.53.35. Ticket::Frontend::AgentTicketSearch###Defaults###DynamicField

Description:	Defines the default shown ticket search attribute for ticket search screen. Example: "Key" must have the name of the Dynamic Field in this case 'X', "Content" must have the value of the Dynamic Field depending on the Dynamic Field type, Text: 'a text', Dropdown: '1', Date/Time: 'Search_DynamicField_XTimeSlotStartYear=1974; Search_DynamicField_XTimeSlotStartMonth=01; Search_DynamicField_XTimeSlotStartDay=26; Search_DynamicField_XTimeSlotStartHour=00; Search_DynamicField_XTimeSlotStartMinute=00; Search_DynamicField_XTimeSlotStartSecond=00; Search_DynamicField_XTimeSlotStopYear=2013; Search_DynamicField_XTimeSlotStopMonth=01; Search_DynamicField_XTimeSlotStopDay=26; Search_DynamicField_XTimeSlotStopHour=23; Search_DynamicField_XTimeSlotStopMinute=59; Search_DynamicField_XTimeSlotStopSecond=59;' and or 'Search_DynamicField_XTimePointFormat=week; Search_DynamicField_XTimePointStart=Before; Search_DynamicField_XTimePointValue=7';.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'DynamicField'} = {};</code>

6.53.36. Ticket::Frontend::AgentTicketSearch###SearchCSVDynamicField

Description:	Dynamic Fields used to export the search result in CSV format.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'SearchCSVDynamicField'} = {};</code>

6.53.37. Ticket::Frontend::AgentTicketSearch###DefaultColumns

Description:	Columns that can be filtered in the ticket search result view of the agent interface. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	1

Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'DefaultColumns'} = { 'Age' => '2', 'Changed' => '1', 'CustomerID' => '2', 'CustomerName' => '1', 'CustomerUserID' => '1', 'EscalationResponseTime' => '1', 'EscalationSolutionTime' => '1', 'EscalationTime' => '1', 'EscalationUpdateTime' => '1', 'Lock' => '2', 'Owner' => '2', 'PendingTime' => '1', 'Priority' => '1', 'Queue' => '2', 'Responsible' => '1', 'SLA' => '1', 'Service' => '1', 'State' => '2', 'TicketNumber' => '2', 'Title' => '2', 'Type' => '1' }; </pre>

6.54. Frontend::Agent::Ticket::ViewStatus

6.54.1. Ticket::Frontend::AgentTicketStatusView###ViewableTicketsPage

Description:	Shows all open tickets (even if they are locked) in the status view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewStatus
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::AgentTicketStatusView'}->{'ViewableTicketsPage'} = '50'; </pre>

6.54.2. Ticket::Frontend::AgentTicketStatusView###SortBy::Default

Description:	Defines the default ticket attribute for ticket sorting in the status view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewStatus
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::AgentTicketStatusView'}->{'SortBy::Default'} = 'Age'; </pre>

6.54.3. Ticket::Frontend::AgentTicketStatusView###Order::Default

Description:	Defines the default ticket order (after priority sort) in the status view of the agent interface. Up: oldest on top. Down: latest on top.
--------------	---

Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewStatus
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketStatusView'}->{'Order::Default'} = 'Down';</code>

6.54.4. Ticket::Frontend::AgentTicketStatusView###DefaultColumns

Description:	Columns that can be filtered in the status view of the agent interface. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewStatus
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketStatusView'}->{'DefaultColumns'} = { 'Age' => '2', 'Changed' => '1', 'CustomerID' => '2', 'CustomerName' => '1', 'CustomerUserID' => '1', 'EscalationResponseTime' => '1', 'EscalationSolutionTime' => '1', 'EscalationTime' => '1', 'EscalationUpdateTime' => '1', 'Lock' => '2', 'Owner' => '2', 'PendingTime' => '1', 'Priority' => '1', 'Queue' => '2', 'Responsible' => '1', 'SLA' => '1', 'Service' => '1', 'State' => '2', 'TicketNumber' => '2', 'Title' => '2', 'Type' => '1' };</code>

6.55. Frontend::Agent::Ticket::ViewWatch

6.55.1. Ticket::Frontend::AgentTicketWatchView###SortBy::Default

Description:	Defines the default ticket attribute for ticket sorting in the watch view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewWatch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketWatchView'}->{'SortBy::Default'} = 'Age';</code>

6.55.2. Ticket::Frontend::AgentTicket-WatchView###Order::Default

Description:	Defines the default ticket order in the watch view of the agent interface. Up: oldest on top. Down: latest on top.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewWatch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketWatchView'}->{'Order::Default'} = 'Up';</code>

6.55.3. Ticket::Frontend::AgentTicket-WatchView###DefaultColumns

Description:	Columns that can be filtered in the watch view of the agent interface. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default. Note: Only Ticket attributes and Dynamic Fields (DynamicField_NameX) are allowed.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewWatch
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketWatchView'}->{'DefaultColumns'} = { 'Age' => '2', 'Changed' => '1', 'CustomerID' => '2', 'CustomerName' => '1', 'CustomerUserID' => '1', 'EscalationResponseTime' => '1', 'EscalationSolutionTime' => '1', 'EscalationTime' => '1', 'EscalationUpdateTime' => '1', 'Lock' => '2', 'Owner' => '2', 'PendingTime' => '1', 'Priority' => '1', 'Queue' => '2', 'Responsible' => '1', 'SLA' => '1', 'Service' => '1', 'State' => '2', 'TicketNumber' => '2', 'Title' => '2', 'Type' => '1' };</code>

6.56. Frontend::Agent::Ticket::ViewZoom

6.56.1. Ticket::Frontend::PlainView

Description:	Shows a link to see a zoomed email ticket in plain text.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewZoom
Valid:	1

Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::PlainView'} = '0';</code>

6.56.2. Ticket::Frontend::ZoomExpand

Description:	Shows all the articles of the ticket (expanded) in the zoom view.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::ZoomExpand'} = '0';</code>

6.56.3. Ticket::Frontend::ZoomExpandSort

Description:	Shows the articles sorted normally or in reverse, under ticket zoom in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::ZoomExpandSort'} = 'normal';</code>

6.56.4. Ticket::ZoomAttachmentDisplayCount

Description:	Shows a count of icons in the ticket zoom, if the article has attachments.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::ZoomAttachmentDisplayCount'} = '20';</code>

6.56.5. Ticket::ZoomTimeDisplay

Description:	Displays the accounted time for an article in the ticket zoom view.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::ZoomTimeDisplay'} = '0';</code>

6.56.6. Ticket::UseArticleColors

Description:	Shows colors for different article types in the article table.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewZoom
Valid:	1

Required:	1
Config-Setting:	<code>\$Self->{'Ticket::UseArticleColors'} = '0';</code>

6.56.7. Ticket::Frontend::TicketArticleFilter

Description:	Activates the article filter in the zoom view to specify which articles should be shown.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::TicketArticleFilter'} = '0';</code>

6.56.8. Ticket::Frontend::HTMLArticleHeightDefault

Description:	Set the default height (in pixels) of inline HTML articles in AgentTicketZoom.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::HTMLArticleHeightDefault'} = '100';</code>

6.56.9. Ticket::Frontend::HTMLArticleHeightMax

Description:	Set the maximum height (in pixels) of inline HTML articles in AgentTicketZoom.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::HTMLArticleHeightMax'} = '2500';</code>

6.56.10. Ticket::Frontend::ZoomRichTextForce

Description:	Show article as rich text even if rich text writing is disabled.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::ZoomRichTextForce'} = '1';</code>

6.56.11. Ticket::Frontend::AgentTicketZoom###DynamicField

Description:	Dynamic fields shown in the sidebar of the ticket zoom screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled.
--------------	---

Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewZoom
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketZoom'}->{'DynamicField'} = {};</code>

6.57. Frontend::Agent::TicketOverview

6.57.1. Ticket::Frontend::Overview###Small

Description:	Allows having a small format ticket overview (CustomerInfo => 1 - shows also the customer information).
Group:	Ticket
SubGroup:	Frontend::Agent::TicketOverview
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::Overview'}->{'Small'} = { 'CustomerInfo' => '1', 'Module' => 'Kernel::Output::HTML::TicketOverviewSmall', 'ModulePriority' => '100', 'Name' => 'Small', 'NameShort' => 'S' };</code>

6.57.2. Ticket::Frontend::OverviewSmall###Column-Header

Description:	Shows either the last customer article's subject or the ticket title in the small format overview.
Group:	Ticket
SubGroup:	Frontend::Agent::TicketOverview
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::OverviewSmall'}->{'ColumnHeader'} = 'LastCustomerSubject';</code>

6.57.3. Ticket::Frontend::Overview###Medium

Description:	Allows having a medium format ticket overview (CustomerInfo => 1 - shows also the customer information).
Group:	Ticket
SubGroup:	Frontend::Agent::TicketOverview
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::Overview'}->{'Medium'} = { 'CustomerInfo' => '0', 'Module' => 'Kernel::Output::HTML::TicketOverviewMedium', 'ModulePriority' => '200', 'Name' => 'Medium', 'NameShort' => 'M', };</code>

```
'OverviewMenuModules' => '1',
'TicketActionsPerTicket' => '0'
};
```

6.57.4. Ticket::Frontend::Overview###Preview

Description:	Shows a preview of the ticket overview (CustomerInfo => 1 - shows also Customer-Info, CustomerInfoMaxSize max. size in characters of Customer-Info).
Group:	Ticket
SubGroup:	Frontend::Agent::TicketOverview
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::Overview'}->{'Preview'} = { 'CustomerInfo' => '0', 'CustomerInfoMaxSize' => '18', 'DefaultPreViewLines' => '25', 'DefaultViewNewLine' => '90', 'Module' => 'Kernel::Output::HTML::TicketOverviewPreview', 'ModulePriority' => '300', 'Name' => 'Large', 'NameShort' => 'L', 'OverviewMenuModules' => '1', 'StripEmptyLines' => '0', 'TicketActionsPerTicket' => '0' };</pre>

6.57.5. Ticket::Frontend::Overview::PreviewArticleSenderTypes

Description:	Defines which article sender types should be shown in the preview of a ticket.
Group:	Ticket
SubGroup:	Frontend::Agent::TicketOverview
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::Overview::PreviewArticleSenderTypes'} = { 'agent' => '1', 'customer' => '1', 'system' => '1' };</pre>

6.57.6. Ticket::Frontend::Overview::PreviewArticleLimit

Description:	Sets the count of articles visible in preview mode of ticket overviews.
Group:	Ticket
SubGroup:	Frontend::Agent::TicketOverview
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::Overview::PreviewArticleLimit'} = '5';</pre>

6.57.7. Ticket::Frontend::Overview::PreviewArticle-TypeExpanded

Description:	Defines wich article type should be expanded when entering the overview. If nothing defined, latest article will be expanded.
Group:	Ticket
SubGroup:	Frontend::Agent::TicketOverview
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::Overview::PreviewArticleTypeExpanded'} = '';</code>

6.57.8. Ticket::Frontend::OverviewSmall###DynamicField

Description:	Dynamic fields shown in the ticket small format overview screen of the agent interface. Possible settings: 0 = Disabled, 1 = Available, 2 = Enabled by default.
Group:	Ticket
SubGroup:	Frontend::Agent::TicketOverview
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::OverviewSmall'}->{'DynamicField'} = {};</code>

6.57.9. Ticket::Frontend::OverviewMedium###DynamicField

Description:	Dynamic fields shown in the ticket medium format overview screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled.
Group:	Ticket
SubGroup:	Frontend::Agent::TicketOverview
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::OverviewMedium'}->{'DynamicField'} = {};</code>

6.57.10. Ticket::Frontend::OverviewPreview###DynamicField

Description:	Dynamic fields shown in the ticket preview format overview screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled.
Group:	Ticket
SubGroup:	Frontend::Agent::TicketOverview
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::OverviewPreview'}->{'DynamicField'} = {};</code>

6.58. Frontend::Agent::ToolBarModule

6.58.1. Frontend::ToolBarModule###1-Ticket::AgentTicketQueue

Description:	Toolbar Item for a shortcut.
Group:	Ticket
SubGroup:	Frontend::Agent::ToolBarModule
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::ToolBarModule'}->{'1-Ticket::AgentTicketQueue'} = { 'AccessKey' => 'q', 'Action' => 'AgentTicketQueue', 'CssClass' => 'QueueView', 'Icon' => 'icon-folder-close', 'Link' => 'Action=AgentTicketQueue', 'Module' => 'Kernel::Output::HTML::ToolBarLink', 'Name' => 'Queue view', 'Priority' => '1010010' };</pre>

6.58.2. Frontend::ToolBarModule###2-Ticket::AgentTicketStatus

Description:	Toolbar Item for a shortcut.
Group:	Ticket
SubGroup:	Frontend::Agent::ToolBarModule
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::ToolBarModule'}->{'2-Ticket::AgentTicketStatus'} = { 'AccessKey' => 'o', 'Action' => 'AgentTicketStatusView', 'CssClass' => 'StatusView', 'Icon' => 'icon-list-ol', 'Link' => 'Action=AgentTicketStatusView', 'Module' => 'Kernel::Output::HTML::ToolBarLink', 'Name' => 'Status view', 'Priority' => '1010020' };</pre>

6.58.3. Frontend::ToolBarModule###3-Ticket::AgentTicketEscalation

Description:	Toolbar Item for a shortcut.
Group:	Ticket
SubGroup:	Frontend::Agent::ToolBarModule
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::ToolBarModule'}->{'3-Ticket::AgentTicketEscalation'} = { 'AccessKey' => 'w', 'Action' => 'AgentTicketEscalationView',</pre>

```
'CssClass' => 'EscalationView',
'Icon' => 'icon-exclamation',
'Link' => 'Action=AgentTicketEscalationView',
'Module' => 'Kernel::Output::HTML::ToolBarLink',
'Name' => 'Escalation view',
'Priority' => '1010030'
};
```

6.58.4. Frontend::ToolBarModule###4-Ticket::AgentTicketPhone

Description:	Toolbar Item for a shortcut.
Group:	Ticket
SubGroup:	Frontend::Agent::ToolBarModule
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::ToolBarModule'}->{'4-Ticket::AgentTicketPhone'} = { 'AccessKey' => 'l', 'Action' => 'AgentTicketPhone', 'CssClass' => 'PhoneTicket', 'Icon' => 'icon-phone', 'Link' => 'Action=AgentTicketPhone', 'Module' => 'Kernel::Output::HTML::ToolBarLink', 'Name' => 'New phone ticket', 'Priority' => '1020010' };</pre>

6.58.5. Frontend::ToolBarModule###5-Ticket::AgentTicketEmail

Description:	Toolbar Item for a shortcut.
Group:	Ticket
SubGroup:	Frontend::Agent::ToolBarModule
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::ToolBarModule'}->{'5-Ticket::AgentTicketEmail'} = { 'AccessKey' => 'e', 'Action' => 'AgentTicketEmail', 'CssClass' => 'EmailTicket', 'Icon' => 'icon-envelope', 'Link' => 'Action=AgentTicketEmail', 'Module' => 'Kernel::Output::HTML::ToolBarLink', 'Name' => 'New email ticket', 'Priority' => '1020020' };</pre>

6.58.6. Frontend::ToolBarModule###6-Ticket::AgentTicketProcess

Description:	Toolbar Item for a shortcut.
Group:	Ticket
SubGroup:	Frontend::Agent::ToolBarModule
Valid:	0
Required:	0

Config-Setting:	<pre>\$Self->{'Frontend::ToolBarModule'}->{'6-Ticket::AgentTicketProcess'} = { 'AccessKey' => 'p', 'Action' => 'AgentTicketProcess', 'CssClass' => 'ProcessTicket', 'Icon' => 'icon-th-large', 'Link' => 'Action=AgentTicketProcess', 'Module' => 'Kernel::Output::HTML::ToolBarLink', 'Name' => 'New process ticket', 'Priority' => '1020030' };</pre>
-----------------	---

6.58.7. Frontend::ToolBarModule###6-Ticket::TicketResponsible

Description:	Agent interface notification module to see the number of tickets an agent is responsible for.
Group:	Ticket
SubGroup:	Frontend::Agent::ToolBarModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::ToolBarModule'}->{'6-Ticket::TicketResponsible'} = { 'CssClass' => 'Responsible', 'CssClassNew' => 'Responsible New', 'CssClassReached' => 'Responsible Reached', 'Icon' => 'icon-user', 'IconNew' => 'icon-user', 'IconReached' => 'icon-user', 'Module' => 'Kernel::Output::HTML::ToolBarTicketResponsible', 'Priority' => '1030010' };</pre>

6.58.8. Frontend::ToolBarModule###7-Ticket::TicketWatcher

Description:	Agent interface notification module to see the number of watched tickets.
Group:	Ticket
SubGroup:	Frontend::Agent::ToolBarModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::ToolBarModule'}->{'7-Ticket::TicketWatcher'} = { 'CssClass' => 'Watcher', 'CssClassNew' => 'Watcher New', 'CssClassReached' => 'Watcher Reached', 'Icon' => 'icon-eye-open', 'IconNew' => 'icon-eye-open', 'IconReached' => 'icon-eye-open', 'Module' => 'Kernel::Output::HTML::ToolBarTicketWatcher', 'Priority' => '1030020' };</pre>

6.58.9. Frontend::ToolBarModule###8-Ticket::TicketLocked

Description:	Agent interface notification module to check the used charset.
--------------	--

Group:	Ticket
SubGroup:	Frontend::Agent::ToolBarModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::ToolBarModule'}->{'8-Ticket::TicketLocked'} = { 'CssClass' => 'Locked', 'CssClassNew' => 'Locked New', 'CssClassReached' => 'Locked Reached', 'Icon' => 'icon-lock', 'IconNew' => 'icon-lock', 'IconReached' => 'icon-lock', 'Module' => 'Kernel::Output::HTML::ToolBarTicketLocked', 'Priority' => '1030030' };</pre>

6.58.10. Frontend::ToolBarModule###9-Ticket::TicketSearchProfile

Description:	Agent interface module to access search profiles via nav bar.
Group:	Ticket
SubGroup:	Frontend::Agent::ToolBarModule
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::ToolBarModule'}->{'9-Ticket::TicketSearchProfile'} = { 'Block' => 'ToolBarSearchProfile', 'Description' => 'Search-Template', 'MaxWidth' => '40', 'Module' => 'Kernel::Output::HTML::ToolBarTicketSearchProfile', 'Name' => 'Search-Template', 'Priority' => '1990010' };</pre>

6.58.11. Frontend::ToolBarModule###10-Ticket::TicketSearchFulltext

Description:	Agent interface module to access fulltext search via nav bar.
Group:	Ticket
SubGroup:	Frontend::Agent::ToolBarModule
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::ToolBarModule'}->{'10-Ticket::TicketSearchFulltext'} = { 'Block' => 'ToolBarSearchFulltext', 'CSS' => 'Core.Agent.Toolbar.FulltextSearch.css', 'Description' => 'Fulltext search', 'Module' => 'Kernel::Output::HTML::ToolBarGeneric', 'Name' => 'Fulltext-Search', 'Priority' => '1990020', 'Size' => '10' };</pre>

6.58.12. Frontend::ToolBarModule###11-CICSearch-CustomerID

Description:	Agent interface module to access CIC search via nav bar.
--------------	--

Group:	Ticket
SubGroup:	Frontend::Agent::ToolBarModule
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::ToolBarModule'}->{'11-CICSearchCustomerID'} = { 'Block' => 'ToolBarCICSearchCustomerID', 'CSS' => 'Core.Agent.Toolbar.CICSearch.css', 'Description' => 'CustomerID Search', 'Module' => 'Kernel::Output::HTML::ToolBarGeneric', 'Name' => 'CustomerID search', 'Priority' => '1990030', 'Size' => '10' };</pre>

6.58.13. Frontend::ToolBarModule###11-CICSearch-CustomerUser

Description:	Agent interface module to access CIC search via nav bar.
Group:	Ticket
SubGroup:	Frontend::Agent::ToolBarModule
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::ToolBarModule'}->{'11-CICSearchCustomerUser'} = { 'Block' => 'ToolBarCICSearchCustomerUser', 'CSS' => 'Core.Agent.Toolbar.CICSearch.css', 'Description' => 'CustomerUser Search', 'Module' => 'Kernel::Output::HTML::ToolBarGeneric', 'Name' => 'Customer user search', 'Priority' => '1990040', 'Size' => '10' };</pre>

6.59. Frontend::Customer

6.59.1. Ticket::Frontend::CustomerDisableCompanyTicketAccess

Description:	This option will deny the access to customer company tickets, which are not created by the customer user.
Group:	Ticket
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::CustomerDisableCompanyTicketAccess'} = '0';</pre>

6.59.2. Ticket::Frontend::CustomerTicketOverviewCustomEmptyText

Description:	Custom text for the page shown to customers that have no tickets yet.
Group:	Ticket

SubGroup:	Frontend::Customer
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketOverviewCustomEmptyText'} = { 'Button' => 'Create your first ticket', 'Text' => 'Please click the button below to create your first ticket.', 'Title' => 'Welcome!' };</pre>

6.59.3. Frontend::CustomerUser::Item###15-OpenTickets

Description:	Customer item (icon) which shows the open tickets of this customer as info block. Setting CustomerUserLogin to 1 searches for tickets based on login name rather than CustomerID.
Group:	Ticket
SubGroup:	Frontend::Customer
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::CustomerUser::Item'}->{'15-OpenTickets'} = { 'Action' => 'AgentTicketSearch', 'Attributes' => 'StateType=Open;', 'CSS' => 'Core.Agent.CustomerUser.OpenTicket.css', 'CSSClassNoOpenTicket' => 'NoOpenTicket', 'CSSClassOpenTicket' => 'OpenTicket', 'CustomerUserLogin' => '0', 'Module' => 'Kernel::Output::HTML::CustomerUserGenericTicket', 'Subaction' => 'Search', 'Target' => '_blank', 'Text' => 'Open tickets' };</pre>

6.59.4. Frontend::CustomerUser::Item###16-OpenTicketsForCustomerUserLogin

Description:	Customer item (icon) which shows the open tickets of this customer as info block. Setting CustomerUserLogin to 1 searches for tickets based on login name rather than CustomerID.
Group:	Ticket
SubGroup:	Frontend::Customer
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::CustomerUser::Item'}->{'16-OpenTicketsForCustomerUserLogin'} = { 'Action' => 'AgentTicketSearch', 'Attributes' => 'StateType=Open;', 'CSS' => 'Core.Agent.CustomerUser.OpenTicket.css', 'CSSClassNoOpenTicket' => 'NoOpenTicket', 'CSSClassOpenTicket' => 'OpenTicket', 'CustomerUserLogin' => '1', 'Module' => 'Kernel::Output::HTML::CustomerUserGenericTicket', 'Subaction' => 'Search', 'Target' => '_blank', };</pre>

	<pre>'Text' => 'Open tickets of customer' };</pre>
--	---

6.59.5. Frontend::CustomerUser::Item###17-ClosedTickets

Description:	Customer item (icon) which shows the closed tickets of this customer as info block. Setting CustomerUserLogin to 1 searches for tickets based on login name rather than CustomerID.
Group:	Ticket
SubGroup:	Frontend::Customer
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::CustomerUser::Item'}->{'17-ClosedTickets'} = { 'Action' => 'AgentTicketSearch', 'Attributes' => 'StateType=Closed;', 'CSS' => 'Core.Agent.CustomerUser.OpenTicket.css', 'CSSClassNoOpenTicket' => 'NoOpenTicket', 'CSSClassOpenTicket' => 'OpenTicket', 'CustomerUserLogin' => '0', 'Module' => 'Kernel::Output::HTML::CustomerUserGenericTicket', 'Subaction' => 'Search', 'Target' => '_blank', 'Text' => 'Closed tickets' };</pre>

6.59.6. Frontend::CustomerUser::Item###18-ClosedTicketsForCustomerUserLogin

Description:	Customer item (icon) which shows the closed tickets of this customer as info block. Setting CustomerUserLogin to 1 searches for tickets based on login name rather than CustomerID.
Group:	Ticket
SubGroup:	Frontend::Customer
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::CustomerUser::Item'}->{'18-ClosedTicketsForCustomerUserLogin'} = { 'Action' => 'AgentTicketSearch', 'Attributes' => 'StateType=Closed;', 'CSS' => 'Core.Agent.CustomerUser.OpenTicket.css', 'CSSClassNoOpenTicket' => 'NoOpenTicket', 'CSSClassOpenTicket' => 'OpenTicket', 'CustomerUserLogin' => '1', 'Module' => 'Kernel::Output::HTML::CustomerUserGenericTicket', 'Subaction' => 'Search', 'Target' => '_blank', 'Text' => 'Closed tickets of customer' };</pre>

6.59.7. CustomerFrontend::CommonObject###QueueObject

Description:	Path of the file that stores all the settings for the QueueObject object for the customer interface.
--------------	--

Group:	Ticket
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerFrontend::CommonObject'}->{'QueueObject'} = 'Kernel::System::Queue';</code>

6.59.8. CustomerFrontend::CommonObject###TicketObject

Description:	Path of the file that stores all the settings for the TicketObject for the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerFrontend::CommonObject'}->{'TicketObject'} = 'Kernel::System::Ticket';</code>

6.59.9. CustomerFrontend::CommonParam###Action

Description:	Defines the default used Frontend-Module if no Action parameter given in the url on the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerFrontend::CommonParam'}->{'Action'} = 'CustomerTicketOverview';</code>

6.59.10. CustomerFrontend::CommonParam###TicketID

Description:	Default ticket ID used by the system in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerFrontend::CommonParam'}->{'TicketID'} = '';</code>

6.60. Frontend::Customer::ModuleMetaHead

6.60.1. CustomerFrontend::HeaderMetaModule###2-TicketSearch

Description:	Module to generate html OpenSearch profile for short ticket search in the customer interface.
--------------	---

Group:	Ticket
SubGroup:	Frontend::Customer::ModuleMetaHead
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerFrontend::HeaderMetaModule'}->{'2-TicketSearch'} = { 'Action' => 'CustomerTicketSearch', 'Module' => 'Kernel::Output::HTML::CustomerHeaderMetaTicketSearch' };</pre>

6.61. Frontend::Customer::ModuleRegistration

6.61.1. CustomerFrontend::Module###CustomerTicketOverview

Description:	Frontend module registration for the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerFrontend::Module'}->{'CustomerTicketOverview'} = { 'Description' => 'Overview of customer tickets', 'NavBar' => [{ 'AccessKey' => 't', 'Block' => '', 'Description' => 'Tickets', 'Link' => 'Action=CustomerTicketOverview;Subaction=MyTickets', 'LinkOption' => '', 'Name' => 'Tickets', 'NavBar' => 'Ticket', 'Prio' => '100', 'Type' => 'Menu' }, { 'AccessKey' => 'm', 'Block' => '', 'Description' => 'My Tickets', 'Link' => 'Action=CustomerTicketOverview;Subaction=MyTickets', 'LinkOption' => '', 'Name' => 'My Tickets', 'NavBar' => 'Ticket', 'Prio' => '110', 'Type' => 'Submenu' }, { 'AccessKey' => 'c', 'Block' => '', 'Description' => 'Company Tickets', 'Link' => 'Action=CustomerTicketOverview;Subaction=CompanyTickets', 'LinkOption' => '', 'Name' => 'Company Tickets', 'NavBar' => 'Ticket', 'Prio' => '120', 'Type' => 'Submenu' }], 'NavBarName' => 'Ticket', };</pre>

```
'Title' => 'Overview'
};
```

6.61.2. CustomerFrontend::Module###CustomerTicketMessage

Description:	Frontend module registration for the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerFrontend::Module'}->{'CustomerTicketMessage'} = { 'Description' => 'Create tickets', 'NavBar' => [{ 'AccessKey' => 'n', 'Block' => '', 'Description' => 'Create new Ticket', 'Link' => 'Action=CustomerTicketMessage', 'LinkOption' => '', 'Name' => 'New Ticket', 'NavBar' => 'Ticket', 'Prio' => '100', 'Type' => 'Submenu' }], 'NavBarName' => 'Ticket', 'Title' => 'New Ticket' };</pre>

6.61.3. CustomerFrontend::Module###CustomerTicketZoom

Description:	Frontend module registration for the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerFrontend::Module'}->{'CustomerTicketZoom'} = { 'Description' => 'Ticket zoom view', 'Loader' => { 'JavaScript' => ['Core.Customer.TicketZoom.js', 'Core.UI.Popup.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Zoom' };</pre>

6.61.4. CustomerFrontend::Module###CustomerTicketPrint

Description:	Frontend module registration for the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::ModuleRegistration

Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerFrontend::Module'}->{'CustomerTicketPrint'} = { 'Description' => 'Customer Ticket Print Module', 'NavBarName' => '', 'Title' => 'Print' };</pre>

6.61.5. CustomerFrontend::Module###CustomerTicketAttachment

Description:	Frontend module registration for the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerFrontend::Module'}->{'CustomerTicketAttachment'} = { 'Description' => 'To download attachments', 'NavBarName' => '', 'Title' => '' };</pre>

6.61.6. CustomerFrontend::Module###CustomerTicketSearch

Description:	Frontend module registration for the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerFrontend::Module'}->{'CustomerTicketSearch'} = { 'Description' => 'Customer ticket search', 'NavBar' => [{ 'AccessKey' => 's', 'Block' => '', 'Description' => 'Search', 'Link' => 'Action=CustomerTicketSearch', 'LinkOption' => '', 'Name' => 'Search', 'NavBar' => 'Ticket', 'Prio' => '300', 'Type' => 'Submenu' }], 'NavBarName' => 'Ticket', 'Title' => 'Search' };</pre>

6.62. Frontend::Customer::Preferences

6.62.1. CustomerPreferencesGroups###ShownTickets

Description:	Defines all the parameters for the ShownTickets object in the customer preferences of the customer interface.
--------------	---

Group:	Ticket
SubGroup:	Frontend::Customer::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerPreferencesGroups'}->{'ShownTickets'} = { 'Active' => '1', 'Column' => 'User Profile', 'Data' => { '15' => '15', '20' => '20', '25' => '25', '30' => '30' }, 'DataSelected' => '25', 'Key' => 'Tickets per page', 'Label' => 'Number of displayed tickets', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserShowTickets', 'Prio' => '4000' };</pre>

6.62.2. CustomerPreferencesGroups###RefreshTime

Description:	Defines all the parameters for the RefreshTime object in the customer preferences of the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerPreferencesGroups'}->{'RefreshTime'} = { 'Active' => '1', 'Column' => 'User Profile', 'Data' => { '' => 'off', '10' => '10 minutes', '15' => '15 minutes', '2' => ' 2 minutes', '5' => ' 5 minutes', '7' => ' 7 minutes' }, 'DataSelected' => '', 'Key' => 'Refresh interval', 'Label' => 'Ticket overview', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserRefreshTime', 'Prio' => '4000' };</pre>

6.63. Frontend::Customer::Ticket::ViewNew

6.63.1. Ticket::Frontend::CustomerTicketMessage###NextScreenAfterNewTicket

Description:	Determines the next screen after new customer ticket in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1

Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'NextScreenAfterNewTicket'} = 'CustomerTicketOverview';</code>

6.63.2. Ticket::Frontend::CustomerTicketMessage###Priority

Description:	Allows customers to set the ticket priority in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'Priority'} = '1';</code>

6.63.3. Ticket::Frontend::CustomerTicketMessage###PriorityDefault

Description:	Defines the default priority of new customer tickets in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'PriorityDefault'} = '3 normal';</code>

6.63.4. Ticket::Frontend::CustomerTicketMessage###Queue

Description:	Allows customers to set the ticket queue in the customer interface. If this is set to 'No', QueueDefault should be configured.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'Queue'} = '1';</code>

6.63.5. Ticket::Frontend::CustomerTicketMessage###QueueDefault

Description:	Defines the default queue for new customer tickets in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	0

Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'QueueDefault'} = 'Postmaster';</code>

6.63.6. Ticket::Frontend::CustomerTicketMessage###TicketType

Description:	Allows customers to set the ticket type in the customer interface. If this is set to 'No', TicketTypeDefault should be configured.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'TicketType'} = '1';</code>

6.63.7. Ticket::Frontend::CustomerTicketMessage###TicketTypeDefault

Description:	Defines the default ticket type for new customer tickets in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'TicketTypeDefault'} = 'default';</code>

6.63.8. Ticket::Frontend::CustomerTicketMessage###Service

Description:	Allows customers to set the ticket service in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'Service'} = '1';</code>

6.63.9. Ticket::Frontend::CustomerTicketMessage###SLA

Description:	Allows customers to set the ticket SLA in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1

Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'SLA'} = '1';</code>

6.63.10. Ticket::Frontend::CustomerTicketMessage###ServiceMandatory

Description:	Sets if service must be selected by the customer.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'ServiceMandatory'} = '0';</code>

6.63.11. Ticket::Frontend::CustomerTicketMessage###SLAMandatory

Description:	Sets if SLA must be selected by the customer.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'SLAMandatory'} = '0';</code>

6.63.12. Ticket::Frontend::CustomerTicketMessage###StateDefault

Description:	Defines the default state of new customer tickets in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'StateDefault'} = 'new';</code>

6.63.13. Ticket::Frontend::CustomerTicketMessage###ArticleType

Description:	Defines the default type for article in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'ArticleType'} = 'webrequest';</code>

6.63.14. Ticket::Frontend::CustomerTicketMessage###SenderType

Description:	Sender type for new tickets from the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'SenderType'} = 'customer';</code>

6.63.15. Ticket::Frontend::CustomerTicketMessage###HistoryType

Description:	Defines the default history type in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'HistoryType'} = 'WebRequestCustomer';</code>

6.63.16. Ticket::Frontend::CustomerTicketMessage###HistoryComment

Description:	Comment for new history entries in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'HistoryComment'} = '';</code>

6.63.17. CustomerPanelSelectionType

Description:	Defines the receipt target of the tickets ("Queue" shows all queues, "SystemAddress" displays all system addresses) in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerPanelSelectionType'} = 'Queue';</code>

6.63.18. CustomerPanelSelectionString

Description:	Determines the strings that will be shown as receipt (To:) of the ticket in the customer interface. For Queue as CustomerPanelS-
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	electionType, "<Queue>" shows the names of the queues, and for SystemAddress, "<Realname> <<Email>>" shows the name and email of the receipt.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'CustomerPanelSelectionString'} = '<Queue>';</code>

6.63.19. CustomerPanelOwnSelection

Description:	Determines which queues will be valid for ticket's recipients in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'CustomerPanelOwnSelection'} = { 'Junk' => 'First Queue', 'Misc' => 'Second Queue' };</code>

6.63.20. CustomerPanel::NewTicketQueueSelection-Module

Description:	Module for To-selection in new ticket screen in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerPanel::NewTicketQueueSelectionModule'} = 'Kernel::Output::HTML::CustomerNewTicketQueueSelectionGeneric';</code>

6.63.21. Ticket::Frontend::CustomerTicketMessage###DynamicField

Description:	Dynamic fields options shown in the ticket message screen of the customer interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required. NOTE. If you want to display these fields also in the ticket zoom of the customer interface, you have to enable them in CustomerTicketZoom###DynamicField.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketMessage'}->{'DynamicField'} = {};</code>

6.64. Frontend::Customer::Ticket::ViewPrint

6.64.1. Ticket::Frontend::CustomerTicketPrint###DynamicField

Description:	Dynamic fields shown in the ticket print screen of the customer interface. Possible settings: 0 = Disabled, 1 = Enabled.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewPrint
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketPrint'}->{'DynamicField'} = {};</code>

6.65. Frontend::Customer::Ticket::ViewSearch

6.65.1. Ticket::CustomerTicketSearch::SearchLimit

Description:	Maximum number of tickets to be displayed in the result of a search in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::CustomerTicketSearch::SearchLimit'} = '5000';</code>

6.65.2. Ticket::CustomerTicketSearch::Search-PageShown

Description:	Number of tickets to be displayed in each page of a search result in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::CustomerTicketSearch::SearchPageShown'} = '40';</code>

6.65.3. Ticket::CustomerTicketSearch::SortBy::Default

Description:	Defines the default ticket attribute for ticket sorting in a ticket search of the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::CustomerTicketSearch::SortBy::Default'} = 'Age';</code>

6.65.4. Ticket::CustomerTicketSearch::Order::Default

Description:	Defines the default ticket order of a search result in the customer interface. Up: oldest on top. Down: latest on top.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::CustomerTicketSearch::Order::Default'} = 'Down';</code>

6.65.5. Ticket::Frontend::CustomerTicketSearch###ExtendedSearchCondition

Description:	Allows extended search conditions in ticket search of the customer interface. With this feature you can search w. g. with this kind of conditions like "(key1&&key2)" or "(key1 key2)".
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketSearch'}->{'ExtendedSearchCondition'} = '1';</code>

6.65.6. Ticket::Frontend::CustomerTicketSearch###SearchCSVData

Description:	Data used to export the search result in CSV format.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketSearch'}->{'SearchCSVData'} = ['TicketNumber', 'Age', 'Created', 'Closed', 'State', 'Priority', 'Lock', 'CustomerID', 'CustomerName', 'From', 'Subject'];</code>

6.65.7. Ticket::Frontend::CustomerTicketSearch###DynamicField

Description:	Dynamic fields shown in the ticket search screen of the customer interface. Possible settings: 0 = Disabled, 1 = Enabled.
Group:	Ticket

SubGroup:	Frontend::Customer::Ticket::ViewSearch
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketSearch'}->{'DynamicField'} = {};</code>

6.65.8. Ticket::Frontend::CustomerTicketSearch###SearchOverviewDynamicField

Description:	Dynamic fields shown in the ticket search overview results screen of the customer interface. Possible settings: 0 = Disabled, 1 = Enabled.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewSearch
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketSearch'}->{'SearchOverviewDynamicField'} = {};</code>

6.65.9. Ticket::Frontend::CustomerTicketSearch###SearchCSVDynamicField

Description:	Dynamic Fields used to export the search result in CSV format.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewSearch
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketSearch'}->{'SearchCSVDynamicField'} = {};</code>

6.66. Frontend::Customer::Ticket::ViewZoom

6.66.1. Ticket::Frontend::CustomerTicketZoom###NextScreenAfterFollowUp

Description:	Determines the next screen after the follow up screen of a zoomed ticket in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'NextScreenAfterFollowUp'} = 'CustomerTicketOverview';</code>

6.66.2. Ticket::Frontend::CustomerTicketZoom###ArticleType

Description:	Defines the default type of the note in the ticket zoom screen of the customer interface.
--------------	---

Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'ArticleType'} = 'webrequest';</code>

6.66.3. Ticket::Frontend::CustomerTicketZoom###SenderType

Description:	Defines the default sender type for tickets in the ticket zoom screen of the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'SenderType'} = 'customer';</code>

6.66.4. Ticket::Frontend::CustomerTicketZoom###HistoryType

Description:	Defines the history type for the ticket zoom action, which gets used for ticket history in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'HistoryType'} = 'FollowUp';</code>

6.66.5. Ticket::Frontend::CustomerTicketZoom###HistoryComment

Description:	Defines the history comment for the ticket zoom action, which gets used for ticket history in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'HistoryComment'} = '';</code>

6.66.6. Ticket::Frontend::CustomerTicketZoom###Priority

Description:	Allows customers to change the ticket priority in the customer interface.
--------------	---

Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'Priority'} = '1';</code>

6.66.7. Ticket::Frontend::CustomerTicketZoom###PriorityDefault

Description:	Defines the default priority of follow up customer tickets in the ticket zoom screen in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'PriorityDefault'} = '3 normal';</code>

6.66.8. Ticket::Frontend::CustomerTicketZoom###State

Description:	Allows choosing the next compose state for customer tickets in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'State'} = '1';</code>

6.66.9. Ticket::Frontend::CustomerTicketZoom###StateDefault

Description:	Defines the default next state for a ticket after customer follow up in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'StateDefault'} = 'open';</code>

6.66.10. Ticket::Frontend::CustomerTicketZoom###StateType

Description:	Defines the next possible states for customer tickets in the customer interface.
--------------	--

Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'StateType'} = ['open', 'closed'];</pre>

6.66.11. Ticket::Frontend::CustomerTicketZoom###AttributesView

Description:	Shows the activated ticket attributes in the customer interface (0 = Disabled and 1 = Enabled).
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'AttributesView'} = { 'Owner' => '0', 'Priority' => '1', 'Queue' => '1', 'Responsible' => '0', 'SLA' => '0', 'Service' => '0', 'State' => '1', 'Type' => '0' };</pre>

6.66.12. Ticket::Frontend::CustomerTicketZoom###DynamicField

Description:	Dynamic fields shown in the ticket zoom screen of the customer interface. Possible settings: 0 = Disabled, 1 = Enabled.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewZoom
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'DynamicField'} = {};</pre>

6.66.13. Ticket::Frontend::CustomerTicketZoom###FollowUpDynamicField

Description:	Dynamic fields options shown in the ticket reply section in the ticket zoom screen of the customer interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewZoom
Valid:	1

Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'FollowUpDynamicField'} = {};</code>

6.67. Frontend::Customer::TicketOverview

6.67.1. Ticket::Frontend::CustomerTicketOverviewSortable

Description:	Controls if customers have the ability to sort their tickets.
Group:	Ticket
SubGroup:	Frontend::Customer::TicketOverview
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketOverviewSortable'} = '';</code>

6.67.2. Ticket::Frontend::CustomerTicketOverview###ColumnHeader

Description:	Shows either the last customer article's subject or the ticket title in the small format overview.
Group:	Ticket
SubGroup:	Frontend::Customer::TicketOverview
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketOverview'}->{'ColumnHeader'} = 'TicketTitle';</code>

6.67.3. Ticket::Frontend::CustomerTicketOverview###Owner

Description:	Show the current owner in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::TicketOverview
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketOverview'}->{'Owner'} = '0';</code>

6.67.4. Ticket::Frontend::CustomerTicketOverview###Queue

Description:	Show the current queue in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::TicketOverview
Valid:	1
Required:	1

Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketOverview'}->{'Queue'} = '0';</code>
-----------------	---

6.67.5. Ticket::Frontend::CustomerTicketOverview###DynamicField

Description:	Dynamic fields shown in the ticket overview screen of the customer interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket
SubGroup:	Frontend::Customer::TicketOverview
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerTicketOverview'}->{'DynamicField'} = {};</code>

6.68. Frontend::Queue::Preferences

6.68.1. QueuePreferences###Comment2

Description:	Parameters of the example queue attribute Comment2.
Group:	Ticket
SubGroup:	Frontend::Queue::Preferences
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'QueuePreferences'}->{'Comment2'} = { 'Block' => 'TextArea', 'Cols' => '50', 'Desc' => 'Define the queue comment 2.', 'Label' => 'Comment2', 'Module' => 'Kernel::Output::HTML::QueuePreferencesGeneric', 'PrefKey' => 'Comment2', 'Rows' => '5' };</code>

6.69. Frontend::SLA::Preferences

6.69.1. SLAPreferences###Comment2

Description:	Parameters of the example SLA attribute Comment2.
Group:	Ticket
SubGroup:	Frontend::SLA::Preferences
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'SLAPreferences'}->{'Comment2'} = { 'Block' => 'TextArea', 'Cols' => '50', 'Desc' => 'Define the sla comment 2.', 'Label' => 'Comment2', 'Module' => 'Kernel::Output::HTML::SLAPreferencesGeneric', 'PrefKey' => 'Comment2', 'Rows' => '5' };</code>

6.70. Frontend::Service::Preferences

6.70.1. ServicePreferences###Comment2

Description:	Parameters of the example service attribute Comment2.
Group:	Ticket
SubGroup:	Frontend::Service::Preferences
Valid:	0
Required:	0
Config-Setting:	<pre> \$self->{'ServicePreferences'}->{'Comment2'} = { 'Block' => 'TextArea', 'Cols' => '50', 'Desc' => 'Define the service comment 2.', 'Label' => 'Comment2', 'Module' => 'Kernel::Output::HTML::ServicePreferencesGeneric', 'PrefKey' => 'Comment2', 'Rows' => '5' }; </pre>

Appendix C. Credits

OTRS is an open source project, and we would like to thank many people for their help and support. The following list is surely incomplete, and we apologize for that! Just drop us a note if you are not on this list.

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