

OTRS 3.0 - Admin Manual

OTRS 3.0 - Admin Manual

Copyright © 2003-2011 OTRS AG

René Bakker, Stefan Bedorf, Michiel Beijen, Shawn Beasley, Hauke Böttcher, Jens Bothe, Udo Bretz, Martin Edenhofer, Carlos Javier García, Martin Gruner, Manuel Hecht, Christopher Kuhn, André Mindermann, Marc Nilius, Elva María Novoa, Henning Oswald, Martha Elia Pascual, Thomas Raith, Carlos Fernando Rodríguez, Stefan Rother, Burchard Steinbild, Daniel Zamorano.

This work is copyrighted by OTRS AG.

You may copy it in whole or in part as long as the copies retain this copyright statement.

The source code of this document can be found at [source.otrs.org](http://source.otrs.org/viewvc.cgi/doc-admin/) [<http://source.otrs.org/viewvc.cgi/doc-admin/>].

UNIX is a registered trademark of X/Open Company Limited. Linux is a registered trademark of Linus Torvalds.

MS-DOS, Windows, Windows 95, Windows 98, Windows NT, Windows 2000, Windows XP, Windows 2003, Windows Vista and Windows 7 are registered trademarks of Microsoft Corporation. Other trademarks and registered trademarks are: SUSE and YaST of SUSE Linux GmbH, Red Hat and Fedora are registered trademarks of Red Hat, Inc. Mandrake is a registered trademark of MandrakeSoft, SA. Debian is a registered trademark of Software in the Public Interest, Inc. MySQL and the MySQL Logo are registered trademarks of Oracle Corporation and/or its affiliates.

All trade names are used without the guarantee for their free use and are possibly registered trade marks.

OTRS AG essentially follows the notations of the manufacturers. Other products mentioned in this manual may be trademarks of the respective manufacturer.

Table of Contents

Preface	xi
1. Trouble Ticket Systems - The Basics	1
What is a trouble ticket system, and why do you need one?	1
What is a trouble ticket?	2
2. OTRS - Open Ticket Request System	3
Basics	3
Features	3
Top new features of OTRS 3.0	5
New features of OTRS 2.4	6
New features of OTRS 2.3	9
New features of OTRS 2.2	10
New features of OTRS 2.1	11
Hardware and software requirements	12
Community	13
Commercial Support and Services for OTRS	14
3. Installation	15
The simple way - Installation of pre-built packages	15
Installing the RPM on a SUSE Linux server	15
Installing OTRS on a CentOS system	17
Installing OTRS on a Debian system	17
Installing OTRS on a Ubuntu system	17
Installing OTRS on Microsoft Windows systems	17
Installation from source (Linux, Unix)	17
Preparing the installation from source	17
Installation of Perl modules	18
Configuring the Apache web server	21
Configuring the database	22
Setting up the cron jobs for OTRS	28
Upgrading the OTRS Framework	32
Upgrading Windows Installer	37
4. First steps	38
Agent web interface	38
Customer web interface	38
Public web interface	39
First login	40
The web interface - an overview	40
What is a queue?	42
User preferences	43
5. The ADMIN area of OTRS	45
Basics	45
Agents, Groups and Roles	45
Agents	45
Groups	46
Roles	49
Customers and Customer Groups	53
Customers	53
Customer Groups	55
Queues	56
Salutations, signatures, attachments and responses	58
Salutations	58
Signatures	59

Attachments	60
Responses	63
Auto responses	65
Email addresses	68
Notifications	69
SMIME	71
PGP	72
States	72
SysConfig	73
Using mail accounts	74
Filtering incoming messages	75
Executing automated jobs with the GenericAgent	77
Admin email	78
Session management	79
System Log	80
SQL queries via the SQL box	81
Package Manager	81
6. System Configuration	83
OTRS config files	83
Configuring the system through the web interface	83
7. Sending/Receiving emails	85
Sending emails	85
Via Sendmail (default)	85
Via SMTP server or smarthost	85
Receiving emails	85
Mail accounts configured via the OTRS GUI	85
Via command line program and procmail (otrs.PostMaster.pl)	87
Fetching emails via POP3 or IMAP and fetchmail for otrs.PostMaster.pl	87
Filtering/dispatching by OTRS/PostMaster modules (for more complex dispatching)	88
8. Time related functions	90
Setting up business hours, holidays and time zones	90
Business Hours	90
Fixed date holidays	90
TimeVacationDaysOneTime	90
Automated Unlocking	91
9. Ticket Responsibility & Ticket Watching	92
Ticket Responsibility	92
Ticket watching	93
10. Customize the PDF output	95
11. Using external backends	96
Customer data	96
Customer user backend	96
Database (Default)	96
LDAP	100
Use more than one customer backend with OTRS	103
Backends to authenticate Agents and Customers	106
Authentication backends for Agents	106
Authentication backends for Customers	109
Customize the customer self-registration	111
Customizing the web interface	111
Customer mapping	111
Customize the customer_user table in the OTRS DB	113
12. States	115

Predefined states	115
New	115
Open	115
Pending reminder	115
Pending auto close-	115
Pending auto close+	115
Merged	115
Closed Successful	115
Closed Unsuccessful	115
Customizing states	116
13. Modifying ticket priorities	119
14. Creating your own themes	120
15. Localization of the OTRS frontend	121
16. PGP	122
17. S/MIME	126
18. Access Control Lists (ACLs)	130
19. Stats module	134
Handling of the module by the agent	134
Overview	134
Generate and view reports	135
Edit / New	138
Import	143
Administration of the stats module by the OTRS administrator	144
Permission settings, Groups and Queues	144
SysConfig	144
Administration of the stats module by the system administrator	144
Data base table	145
List of all files	145
Caching	145
otrs.GenerateStats.pl	145
Automated stat generation - Cronjob	146
Static stats	146
Using old static stats	146
Default stats	147
20. Additional applications	148
FAQ	148
21. Performance Tuning	149
OTRS	149
TicketIndexModule	149
TicketStorageModule	149
Archiving Tickets	150
Database	151
MySQL	151
PostgreSQL	151
Webserver	151
Pre-established database connections	151
Preloaded modules - startup.pl	152
Reload Perl modules when updated on disk	152
Choosing the Right Strategy	152
mod_gzip/mod_deflate	152
22. Backing up the system	153
Backup	153
Restore	153
A. Additional Resources	155

Homepage OTRS.org	155
Mailing lists	155
Bug tracking	156
Commercial Support	157
B. Configuration Options Reference	158
Framework	158
Core	158
Core::LinkObject	168
Core::Log	169
Core::MIME-Viewer	171
Core::MirrorDB	172
Core::PDF	173
Core::Package	177
Core::PerformanceLog	179
Core::SOAP	180
Core::Sendmail	180
Core::Session	183
Core::SpellChecker	188
Core::Stats	189
Core::Stats::Graph	190
Core::Time	195
Core::Time::Calendar1	200
Core::Time::Calendar2	203
Core::Time::Calendar3	206
Core::Time::Calendar4	209
Core::Time::Calendar5	213
Core::Time::Calendar6	216
Core::Time::Calendar7	219
Core::Time::Calendar8	222
Core::Time::Calendar9	226
Core::Web	229
Core::WebUserAgent	244
Crypt::PGP	244
Crypt::SMIME	247
Frontend::Admin::AdminCustomerUser	248
Frontend::Admin::ModuleRegistration	248
Frontend::Agent	262
Frontend::Agent::Dashboard	268
Frontend::Agent::ModuleMetaHead	272
Frontend::Agent::ModuleNotify	272
Frontend::Agent::ModuleRegistration	274
Frontend::Agent::NavBarModule	280
Frontend::Agent::Preferences	281
Frontend::Agent::SearchRouter	287
Frontend::Agent::Stats	287
Frontend::Customer	291
Frontend::Customer::Auth	300
Frontend::Customer::ModuleMetaHead	308
Frontend::Customer::ModuleNotify	308
Frontend::Customer::ModuleRegistration	309
Frontend::Customer::Preferences	311
Frontend::Public	315
Frontend::Public::ModuleRegistration	315
Ticket	316

Core::ArticleFreeText	316
Core::FulltextSearch	320
Core::LinkObject	321
Core::PostMaster	322
Core::Stats	334
Core::Ticket	336
Core::TicketACL	354
Core::TicketBulkAction	354
Core::TicketFreeText	355
Core::TicketFreeTextDefault	381
Core::TicketFreeTime	388
Core::TicketWatcher	395
Frontend::Admin::ModuleRegistration	395
Frontend::Agent	406
Frontend::Agent::CustomerSearch	415
Frontend::Agent::Dashboard	417
Frontend::Agent::ModuleMetaHead	421
Frontend::Agent::ModuleNotify	421
Frontend::Agent::ModuleRegistration	421
Frontend::Agent::Preferences	437
Frontend::Agent::SearchRouter	444
Frontend::Agent::Ticket::ArticleAttachmentModule	444
Frontend::Agent::Ticket::ArticleComposeModule	445
Frontend::Agent::Ticket::ArticleViewModule	446
Frontend::Agent::Ticket::ArticleViewModulePre	447
Frontend::Agent::Ticket::MenuModule	447
Frontend::Agent::Ticket::MenuModulePre	456
Frontend::Agent::Ticket::ViewBounce	460
Frontend::Agent::Ticket::ViewBulk	462
Frontend::Agent::Ticket::ViewClose	465
Frontend::Agent::Ticket::ViewCompose	473
Frontend::Agent::Ticket::ViewCustomer	478
Frontend::Agent::Ticket::ViewEmailNew	478
Frontend::Agent::Ticket::ViewEscalation	483
Frontend::Agent::Ticket::ViewForward	484
Frontend::Agent::Ticket::ViewFreeText	487
Frontend::Agent::Ticket::ViewHistory	495
Frontend::Agent::Ticket::ViewMailbox	496
Frontend::Agent::Ticket::ViewMerge	498
Frontend::Agent::Ticket::ViewMove	499
Frontend::Agent::Ticket::ViewNote	502
Frontend::Agent::Ticket::ViewOwner	510
Frontend::Agent::Ticket::ViewPending	518
Frontend::Agent::Ticket::ViewPhoneNew	526
Frontend::Agent::Ticket::ViewPhoneOutbound	531
Frontend::Agent::Ticket::ViewPriority	536
Frontend::Agent::Ticket::ViewQueue	544
Frontend::Agent::Ticket::ViewResponsible	546
Frontend::Agent::Ticket::ViewSearch	555
Frontend::Agent::Ticket::ViewStatus	573
Frontend::Agent::Ticket::ViewZoom	574
Frontend::Agent::TicketOverview	577
Frontend::Agent::ToolBarModule	578
Frontend::Customer	583

Frontend::Customer::ModuleMetaHead	585
Frontend::Customer::ModuleRegistration	585
Frontend::Customer::Preferences	589
Frontend::Customer::Ticket::ViewNew	590
Frontend::Customer::Ticket::ViewSearch	597
Frontend::Customer::Ticket::ViewZoom	600
Frontend::Queue::Preferences	604
Frontend::SLA::Preferences	605
Frontend::Service::Preferences	605
C. Credits	607
D. GNU Free Documentation License	609
0. PREAMBLE	609
1. APPLICABILITY AND DEFINITIONS	609
2. VERBATIM COPYING	610
3. COPYING IN QUANTITY	610
4. MODIFICATIONS	611
5. COMBINING DOCUMENTS	612
6. COLLECTIONS OF DOCUMENTS	612
7. AGGREGATION WITH INDEPENDENT WORKS	613
8. TRANSLATION	613
9. TERMINATION	613
10. FUTURE REVISIONS OF THIS LICENSE	613
How to use this License for your documents	614

List of Tables

3.1. Needed Perl modules for OTRS	19
3.2. Description of several cron job scripts.	29
5.1. Default groups available on a fresh OTRS installation	47
5.2. Rights associated with OTRS Groups	49
5.3. Events for Auto answers	67
5.4. Function of the different X-OTRS-headers	75
A.1. Mailinglists	155

List of Examples

5.1. Sort spam mails into a specific queue	77
7.1. .fetchmailrc	88
7.2. Example jobs for the filter module Kernel::System::PostMaster::Filter::Match	88
7.3. Example job for the filter module Kernel::System::PostMaster::Filter::CMD	89
11.1. Configuring a DB customer backend	96
11.2. Using company tickets with a DB backend	100
11.3. Configuring an LDAP customer backend	100
11.4. Using Company tickets with an LDAP backend	103
11.5. Using more than one customer backend with OTRS	103
11.6. Authenticate agents against a DB backend	106
11.7. Authenticate agents against an LDAP backend	107
11.8. Authenticate Agents using HTTPBasic	108
11.9. Authenticate Agents against a Radius backend	109
11.10. Customer user authentication against a DB backend	109
11.11. Customer user authentication against an LDAP backend	109
11.12. Customer user authentication with HTTPBasic	110
11.13. Customer user authentication against a Radius backend	111
18.1. ACL allowing movement into a queue of only those tickets with ticket priority 5.	130
18.2. ACL disabling the closing of tickets in the raw queue, and hiding the close button...	130
18.3. ACL removing the status for all agents, only providing it for a group.	131
18.4. ACL only showing Hardware services for tickets that are created in queues that start with "HW".	131
19.1. Definition of a value series - one element	142
19.2. Definition of a value series - two elements	142

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 well enough 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>* [<http://bugs.otrs.org>]. Thanks in advance for your contributions!

Chapter 1. Trouble Ticket Systems - The Basics

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

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 mails from customers needing help with the devices. Some days, he is unable to respond promptly or even acknowledge the mails. Some customers get impatient and write a second mail with the same question. All mails containing support requests are stored in a single inbox file. The requests are not sorted, and Max answers the mails 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 file. They don't know that Max often gets two identical requests from a desperate customer. Sometimes they both end up responding separately to the same request, with the customer receiving two different answers. Further, Max is unaware of the details of their responses. He is also unaware of the details of customer problems and their resolution, 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 the Open Ticket Request System (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 generates an auto-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 they receive an acknowledgement to their requests and it is not necessary to send a second message with the same question. Max, John and Joe can now login 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 mails and phone calls, and if different service representatives need to respond at different times, a ticket system

can be of great help. 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.

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 be stored too with every email. Also, 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.

Chapter 2. OTRS - Open Ticket Request System

This chapter describes the features of the Open Ticket Request System (OTRS). You will find information about the hardware and software requirements for OTRS. Additionally, this chapter tells you how to get commercial support for OTRS, should you require it, and how to contact the community.

Basics

The Open Ticket Request System (OTRS) is a web application which can be used with every HTML-compatible web browser. The web interface of OTRS does not use active web content like Flash or Java applets to ensure that the system is usable with mobile phones or other mobile computers. To use OTRS, no special client operating system is necessary; only an HTML browser is needed.

OTRS is separated into several components. The basic component is the OTRS framework that contains all central functions for the application and the ticket system. Via the web interface of the central OTRS framework, it is possible to install additional applications like a web mailer, a content manager, a file manager, a web calendar and a tool to monitor system status information.

Features

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

The features of OTRS

- Web interface:
 - Easy and initial handling with a web browser.
 - Because no active web contents like Flash or Java applets are used, the web interface is usable with most web browsers, even with mobile phones or other mobile computers.
 - A web interface to administer the system via the web is available.
 - A web interface to handle customer requests by employees/agents via the web is integrated.
 - A web interface for customers is available to write new tickets, check the state and answer old tickets and search through their own tickets.
 - The web interface can be customized with different themes; own themes can be integrated.
 - Support for many languages.
 - The appearance of output templates can be customized (dtl).
 - Mails from and into the system can contain multiple attachments.
- Mail interface:
 - Support for mail attachments (MIME support).

- Automatic conversion of HTML into plain text messages (more security for dangerous content and enables faster searching).
- Mail can be filtered with the X-OTRS headers of the system or via mail addresses, e.g. for spam messages.
- PGP support, creation and import of own keys, signing and encrypting outgoing mail, signed and encrypted messages can be displayed.
- Support for viewing and encrypting S/MIME messages, handling of S/MIME certificates.
- Auto answers for customers, configurable for every queue.
- Email notifications for agents about new tickets, follow-ups or unlocked tickets.
- Follow-ups by references or In-Reply-To header entries.
- Tickets:
 - Expanded queue view, fast overview of new requests in a queue.
 - Tickets can be locked.
 - Creation of own auto answer templates.
 - Creation of own auto responders, configurable for every queue.
 - Ticket history, overview of all events for a ticket (changes of ticket states, replies, notes, etc.).
 - Print view for tickets.
 - Adding own (internal or external) notes to a ticket (text and attachments).
 - Ticket zooming.
 - Access control lists for tickets can be defined.
 - Forwarding or bouncing tickets to other mail addresses.
 - Moving tickets between queues.
 - Changing/setting the priority of a ticket.
 - The working time for every ticket can be counted.
 - Up-coming tasks for a ticket can be defined (pending features).
 - Bulk actions on tickets are possible.
 - Automatic and timed actions on tickets are possible with the "GenericAgent".
 - Full text search on all tickets is possible.
- System:
 - OTRS runs on many operating systems (Linux, Solaris, AIX, FreeBSD, OpenBSD, Mac OS 10.x, Microsoft Windows).

- ASP support (active service providing).
- Linking several objects is possible, e.g. tickets and FAQ entries.
- Integration of external back-ends for the customer data, e.g. via AD, eDirectory or OpenLDAP.
- Setting up an own ticket identifier, e.g. Call#, Ticket# or Request#.
- The integration of your own ticket counter is possible.
- Support of several database systems for the central OTRS back-end, e.g. MySQL, PostgreSQL, Oracle, DB2).
- Framework to create stats.
- utf-8 support for the front- and back-end.
- Authentication for customers via database, LDAP, HTTPAuth or Radius.
- Support of user accounts, user groups and roles.
- Support of different access levels for several systems components or queues.
- Integration of standard answer texts.
- Support of sub queues.
- Different salutations and signatures can be defined for every queue.
- Email notifications for admins.
- Information on updates via mail or the web interface.
- Escalation for tickets.
- Support for different time zones.
- Simple integration of own add-ons or applications with the OTRS API.
- Simple creation of own front-ends, e.g. for X11, console.

Top new features of OTRS 3.0

Context

- User Centered redesign of the Graphical User Interface which results in a dramatic shift from a comprehensive but static to a more powerful and dynamic application using state-of-the art technologies like Ajax, xHTML and optimized CSS.

New Ticket and Article Indicator

- This new feature has been implemented on both ticket and article level. It allows an agent at a glance to check for any updates within a ticket or on the article level to check for new and unread articles. You benefit from increased transparency and decreased response times.

Optimized Fulltext Search

- The new search feature allows you to flexibly customize the way you browse the information base. Options the new search feature provides range from single search-string searches to complex multi-string boolean search operations including various operators. You benefit from fully customizable searches according to your needs.

New Ticket Zoom View

- The redesign based on Ajax technology allows agents to display complex and linked information structures in real-time while keeping the agents' current working environment. The agent will benefit from increased orientation and increased workflow efficiency.

Global Ticket Overviews

- Well known from OTRS 2.4 the global ticket overviews have been optimized to achieve increased inter- activity. Depending on the use case and preferences of your agents they can easily change the ticket overviews layout according to their special needs. Options are small, medium and large, each providing a different degree of information details.

Accessability

- The redesign includes common accessibility standards WCAG and WAI-ARIA which also allows disabled users to better interact with OTRS Help Desk. The US Rehabilitation Acts Section 508 has been fulfilled.

New Customer Interface

- The customer web front-end can be integrated to your organizations intranet and is fully integrated into the redesigned help desk system.

Archive Feature

- OTRS 3.0 now offers a new archiving feature. With a separated archive you'll benefit from a reduced time spent for searches and increased display of results.

New features of OTRS 2.4

Licensing changed to AGPL Version 3

- Why AGPL instead of GPL? - AGPL and GPL are identical, with one exception: For software used in an SaaS environment Copyleft is effective in AGPL - which is not the case when using GPL. Keeping in mind the growing world of SaaS, ((otrs)) wants to ensure that future developments continue to return to the OTRS community. This is the reason for the switch to AGPL.

Why v3 instead of v2? - GPL v2 is getting older and has, especially in the USA, various legal uncertainties. In the opinion of ((otrs)) GPL v3 is keeping the spirit of GPL v2, and at the same time has been tailored to new needs. ((otrs)) views GPLv3, more specifically AGPLv3, as being the best balanced Copyleft Open Source License available today, offering Protection for copyright owners and users and providing the best security under the law.

New Management Dashboard

- The need for a system-spanning, next to real-time, and personalized presentation of useful information led to an integrated Management Dashboard. It is possible to create plug-ins to display content from individual extensions alongside the standard content. Standard plug-ins are:
- Ticket volume (new & open) from the last 24h, 48h and 72h
- Calendar including an overview of upcoming events (escalations, auto-unlocks, etc.)
- System-wide overview of ticket distribution within the queues
- First Response Time/Solution Time of Queues
- Integration of RSS

New Standard Reports

- The new reports provided with OTRS 2.4 are:
- Created Tickets
- Closed Tickets
- SLA Analysis
- Required working time per customer / per queue
- Solution time analysis per customer / per queue
- Answer time analysis per customer / per queue

New Master/Slave Ticket Feature

- With the Master/Slave Ticket, it is possible to link multiple tickets of a similar nature, and handle them collectively. As soon as the problem is solved, only the master ticket must be closed. All other tickets will be closed automatically, and the solution text for the master ticket will be sent to all customers of slave tickets.

A new link type 'Slave' will be available. All tickets with this Type of link will inherit the following actions from their Master ticket:

- Status change
- Email answers
- Change in FreeText fields
- Notes
- Pending time changes
- Priority changes
- Owner changes
- Responsibility changes

New Rich-Text/HTML E-Mail Support (WYSIWYG)

- With this feature, it is now possible to write e-mails, notes, and notifications in rich text format (HTML format). Using a WYSIWYG editor (What You See Is What You Get), it is possible to comfortably write using formatted text and even include in-line pictures.

New Out-Of-Office Feature

- With this new feature it is possible for all users to activate "out-of-office" to notify colleagues and OTRS of the period of their absence. The out-of-office feature is active for a time frame set by the user. Activation of this feature has the following effects:

In the lists in which an agent can be selected as owner or responsible (i.e. Ticket creation or changing ownership), the period of absence and the time till return will be shown behind the user's name. This will help making the absence of the user more transparent.

If an agent receives a follow-up during a period of absence, the ticket is automatically unlocked and a notification is sent to all agents in the queue. This allows immediate reaction to the customer follow-up by another service employee.

New Ticket Overviews and global Bulk Action

- Flexibility of presentation within the ticket overview is a must. Based on the "S/M/L" (Small/Medium/Large) Ticket View every agent has the possibility to change the view for each type of overview (Queue View, Status View, etc) on-the-fly with a simple mouse click on the appropriate icon. This allows for the highest possible level of individualization and adjustment to any operational situation.

Additionally, decentralization of the Bulk Action feature integrated the Bulk Action in all ticket overviews (Bulk Action allows processing of multiple tickets at a time).

Postmaster Filter recognizes Follow-Ups to internal forwarded messages

- Currently, e-mail replies to forwarded articles arrive in OTRS as email-external. The problem is that the answers to these forwarded articles can be seen by the customer in the web- interface. Although it is possible to classify e-mails of an entire domain as email-internal, this only shifts the problem. Also, such step makes it impossible to properly service customers in the domain, as the customer would not be able to track tickets in the customer web-interface any more. With this new feature, e-mail replies can be traced back, and email- internal or email-external will be set based upon the original Forward-Article type.

Configurable event based notifications

- Until now, a very inflexible notification could be sent to an agents and customers, for example Agent: New Ticket or Customer: Status Change. In order to make the notification system more flexible, a complete overhaul was performed on the messaging mechanism. The new system allows messaging to agents, customers, or a dedicated email address, based on the event taking place.

With this, it is now possible to just inform the customer when the ticket has been closed. Or, for example, when a VIP customer creates a ticket, a message can be sent to a specific address. Events (i.e. TicketCreate, TicketStateUpdate, TicketPriorityUpdate, ArticleCreate), and all known message variables (i.e. <OTRS_TICKET_TicketNumber> <OTRS_TICKET_Priority>), are freely selectable for creating triggered messages via the web interface.

READ-ONLY Permissions and Notifications with watched Tickets

- In the current release of OTRS it is possible for a user to maintain a Watched Tickets List. This feature is dealing with tickets marked as "subscribed" by a user. It has the advantage that users no longer lose track of tickets marked as "subscribed", and are able to view them on an individual list. The "Read-Only" Feature - Up to now, tickets marked as "subscribed" were shown in a list, however, the agent could only actually view them if they were in a queue for which the agent had read permissions. With the "Read-Only" Feature, agents subscribed to a ticket always have read permissions on the ticket, even if the ticket is moved to a queue where the agent has no permissions. "Notify" Feature - Via a personalized setting, every agent can define whether or not to receive notifications about tickets, just as the owner and responsible of a ticket would receive. This allows for active tracking of watched tickets.

Secure SMTP

- OTRS can receive and send mails in multiple ways. All currently available methods for receiving emails have been implemented within OTRS 2.3 (POP3, POP3S, IMAP, IMAPS). Until now, there were two options for sending emails: using a local MTA (Sendmail, Postfix, etc.) or per SMTP. In OTRS 2.4.x, SMTPS (Secure SMTP) has been implemented in order to keep up to the growing security standards.

New features of OTRS 2.3

Performance

- Data base- and code-improvements increase lead to a general performance gain of up to 20%.
- The support of an indexed full text search has been added. The feature is disabled per default because additional disc space is needed. The expected performance gain is 50%.
- Reduced reloads by using AJAX technology.
- Instead of an ongoing recalculating of the escalation time during run time, it is only recalculated when it changes due to an event in OTRS. It is then being stored in the ticket object which allows a direct access of external reporting tools to the data base as well as a more efficient reporting on escalations. This will also lead into a substantial performance improvement.

Search functionality

- Support of logical expressions: ticket-, customer- and FAQ- search supports logical expressions, utilizing the AND, OR and ! operators as well as structuring expressions with parentheses.
- Search for ticket numbers by using the Browser OpenSearch feature (OpenSearch format).
- Search for ticket titles in the agent ticket search form and in the generic agent.
- Search for ticket close time in the agent ticket search form and in the generic agent.

Ticket zoom and ticket move

- Expand/Collapse of articles: the article view can be expanded to display all articles at once. The current article will remain in focus, and the preceding, or following articles will be displayed.
- Structured article tree - The article tree has been changed to a table.

- Printing of articles has been realized.
- The ticket title of linked tickets are displayed in case of a mouse over action.
- Merged tickets are displayed crossed out.
- Multiple files can be attached while moving a ticket using the ticket move mask.

Ticket FreeText and FreeTime opportunities

- When splitting a ticket, all FreeText and Free Time data will be copied to the new ticket.
- Ticket Free Time fields can be declared as mandatory.
- A URL can be configured that takes the value of a FreeText field and displays it as an URL link in the ticket.
- Added X-OTRS-TicketTime and X-OTRS-FollowUp-TicketTime email headers.

IMAP, IMAPS and POP3S support

- With OTRS 2.3 additionally to POP3, POP3S, IMAP and IMAPS is supported to fetch mails from your MTA.

Security

- In case of a lost password, OTRS is sending an e-mail to the user with a "password reset link". After clicking this link the new password is sent to the user in a second e-mail.

Notifications and escalations

- All agents that have a read permission on a certain queue can be selected for notification.
- An escalation view has been added that displays all tickets sorted by their remaining time to escalation.

New features of OTRS 2.2

New features of OTRS 2.2

- Support of Services and SLAs: As major step towards IT Service Management OTRS 2.2 brings in the new attributes 'Service' and 'Service Level Agreements (SLA)'. While creating a new ticket a service requester has to select both a service (e. g. email-service) and a related SLA . SLA attributes are "response time", "update time" and "solution time". These attributes are used by the IT Service Organization for notification and escalation purposes in order to keep the agreed SLA. Service- and SLA-related informations within incoming email headers might also be used by the Postmaster-Filter as already known before.
- Support of native ticket types: Ticket types can now be managed over the admin interface. You do not longer need to use ticket free text field for this purpose. Installations which already use a ticket free text field for ticket type classification do not need to migrate. This feature will also be shown in zoom and print view for agents and customers and can be changed via the agent interface.
- Support of multiple authentication backends: Added support of multi authentication feature for agent and customer backend. By using this feature it is now possible to use multiple trusted

authentication sources (i.e. use LDAP as a first source for authentication and in case of an unsuccessful authentication try a SQL DB as a second source).

- Support of different password crypt types: Supported and permitted password authentication types for agent and/or customer login are:
 - `unix_crypt()`
 - `md5()`
 - `plain()`

Default is '`unix_crypt()`'. The administrator can easily switch from `unix_crypt()` to `md5()` on the fly by changing the related configuration parameter.

- Changed OTRS internal CustomerUser structure: Customer datas (CustomerUser) are restructured and split into the objects "CustomerCompany" and "CustomerUser" within the internal OTRS database. Company related attributes like company name and address will be managed separately from those attributes related to a single contact (e.g. first name, surname, phone etc.).

This information will be shown in zoom and print like the current customer info.

- Enhanced OPM-Format: OPM Packages are now delivered with an additional on-line help. The introduction page will inform the user about new features and will also give a short overview about the next steps to do after having installed the packages.
- PostMaster-Admin-Interface: The improvement has lead to a more detailed definition of those email addresses which have to be matched by PostMaster filter.
- SysConfig Improvement: A quicker page view and page saving leads to essential time savings during configuration process.

New features of OTRS 2.1

New features of OTRS 2.1

- Stable Support of Microsoft SQL Server: starting this version OTRS offers an interface to MS SQL Server databases. OTRS supports all popular operating systems like Linux, Windows, UNIX, Mac OS X etc. as well as all major databases like MS SQL, MySQL, PostgreSQL, Oracle and DB2.
- Multi-Calendar Function: This Feature simplifies working in distributed surroundings. National teams are supported by permitting different local working schedules and public holiday regulations. International organizations are additionally supported by a time-zone feature.
- New Statistics-Framework: Gain access and define your Reports- and Statistics in a more flexible way than ever. A powerful and easy to use Wizard will guide you through the process. Once defined OTRS may deliver periodically needed Reports automatically to a predefined Mailing List. Export- and Import functions allow to transfer Statistics between different OTRS Installations. So you can define and test your Statistics before loading them up to your production System.
- Optimized Synchronization of authorizations from LDAP-Directory Services: That simplifies the connection of all known LDAP-Directory Services like Microsoft Active Directory, OpenLDAP,

Novell eDirectory, Oracle Internet Directory, etc. A useful Feature which saves time and effort of maintaining authorizations in the local Database of OTRS.

- PDF-Generator: OTRS now supports the Output of Reports and Statistics as well as the results of a ticket search and ticket zoom in the PDF-Format.
- New implemented Knowledge Database / FAQ-Module: OTRS makes allowance for the need of an efficient Knowledge Management within daily Service Request handling. Fundamental in this context is a quick access towards existing problem-solving Know-How and standardized answers. Advantages: optimized search-functions, more effective administration of FAQ-Articles, faster Navigation and opportunities to rate an existing FAQ-Article.
- Tracking of Sub-orders and Support of hierarchical Team-Structures: New Features like the Ticket Supervisor and the Ticket Watchers support working within hierarchical Teams and enable you to define and depute Work packages temporarily to another Service Agent. While the Ticket Supervisor enables authorized Team members to depute a Ticket to another Service Agent without losing the right to edit this ticket the Ticket Watcher allows you to track a ticket passive on the basis of an individual watch list.
- Optimized Follow-Up-Detection: In addition to the subject heading, OTRS also checks for referable ticket numbers inside the Email-body and further attachments. This new feature aims to automatically assign an incoming Service Request to an existing Incident much faster than before.

Hardware and software requirements

OTRS can be installed on many operating systems. OTRS runs not only on linux and on other unix derivatives (e.g. OpenBSD or FreeBSD) but on all Microsoft Windows platforms too. OTRS has no 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.

If you want to use OTRS, you need some other software components. The basic software requirements are: a web and a database servers, as well as a working Perl environment with some additional modules. The web server and Perl have to be installed on the same machine as OTRS. The database back-end can be installed locally or on another host.

For the web server, we recommend using apache 2, because its module `mod_perl` improves greatly the performance of OTRS. If you can't use apache, OTRS should run on any web server that can execute Perl scripts.

For database back-ends, you can use MySQL, PostgreSQL, Oracle, MSSQL or DB2. 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 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

Perl

- Perl 5.8.8 or higher

Webserver

- Apache2 + mod_perl2 or higher (recommended, mod_perl is really fast!)
- Webserver with CGI support (CGI is not recommended)
- IIS 6 or higher

Databases

- MySQL 4.1 or higher
- PostgreSQL 8.0 or higher
- Oracle 10g or higher
- DB2 8 or higher
- MSSQL 2000 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.

Community

OTRS has a large user community. Users and developers discuss about OTRS and interchange information on related issues through the mailing-lists. There is available help for questions regarding the installation, configuration, usage, localization and development. Software bugs can be reported on the bug tracking system, so that they reach the responsible developers directly and without getting lost.

The homepage of the OTRS community is: <http://www.otrs.org> [<http://www.otrs.org>] (see Figure 2.1 below).

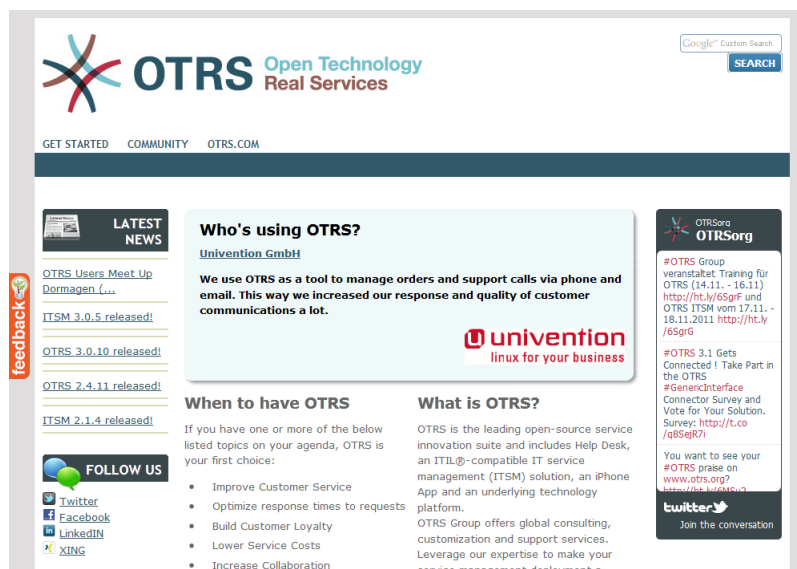


Figure 2.1. OTRS community homepage.

Commercial Support and Services for OTRS

Commercial support for OTRS is also available. You can find the available options on the website of OTRS Group, the company behind OTRS: <http://www.otrs.com/> [<http://www.otrs.com/>] .

OTRS Group provides subscription support services, customization, consulting and training for *OTRS Help Desk* [<http://www.otrs.com/products/otrs-help-desk/>] and *OTRS ITSM* [<http://www.otrs.com/en/products/otrs-itsm/>]. It also provides *Best Practice Product Editions* [<http://www.otrs.com/solutions/>]. With these Editions, OTRS Group helps organizations to design, deploy and optimize OTRS for each unique environment. Additionally, OTRS Group provides hosted versions including *OTRS OnDemand* [<http://www.otrs.com/en/solutions/ondemand/>] and *Managed OTRS* [<http://www.otrs.com/en/solutions/managed-otrs/>].

You can find more detailed information about OTRS Group on <http://www.otrs.com> [<http://www.otrs.com>] and you can contact us via email on [sales at otrs.com](mailto:sales@otrs.com) [<mailto:sales@otrs.com>] .

Chapter 3. 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.

The simple way - Installation of pre-built packages

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.org> [<http://www.otrs.org>]. The following sections describe the installation of OTRS with a pre-built or binary package on SUSE, Debian and Microsoft Windows systems. Only if you are unable to use the pre-built packages for some reason should you follow the manual process.

Installing the RPM on a SUSE Linux server

This section demonstrates the installation of a pre-built RPM package on a SUSE Linux distro. We have tested against all recent SLES and OpenSUSE versions. Before you start the installation, please have a look at <http://www.otrs.org/downloads> [<http://www.otrs.org/downloads>] and check if a newer OTRS RPM package is available. Always use the latest RPM package.

Install OTRS with yast (yast2) or via the command line and **rpm**. OTRS needs some Perl modules which are not installed on a SUSE system by default, and so we recommend using yast, since it addresses the package dependencies automatically.

If you decide to install OTRS via the command line and **rpm**, first you have to manually install the needed Perl modules. Assuming you saved the file `otrs.rpm` in the directory `/tmp`, you can execute the command specified in Script 3.1 to install OTRS.

Note: If you install it on SLES9 or OES, follow this description to install the missing perl-GD packages. <http://faq.otrs.org/otrs/public.pl?FAQID=49>

```
linux:~ # rpm -i /tmp/otrs-xxx.rpm
otrs
#####
Check OTRS user (/etc/passwd)... otrs exists.
```

Next steps:

```
[SuSEconfig]
Execute 'SuSEconfig' to configure the web server.
```

```
[start Apache and MySQL]
```

Execute 'rcapache restart' and 'rcmysql start' in case they don't run.

[install the OTRS database]

Use a web browser and open this link:

<http://localhost/otrs/installer.pl>

[OTRS services]

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

Have fun!

Your OTRS Team

<http://otrs.org/>

linux:~ #

Script 3.1. Command to install OTRS.

After the installation of the OTRS RPM package, you have to run SuSEconfig, as shown in Script 3.2.

```
linux:~ # SuSEconfig
Starting SuSEconfig, the SuSE Configuration Tool...
Running in full featured mode.
Reading /etc/sysconfig and updating the system...
Executing /sbin/conf.d/SuSEconfig.aaa_at_first...
Executing /sbin/conf.d/SuSEconfig.apache...
Including /opt/otrs/scripts/apache-httpd.include.conf
Executing /sbin/conf.d/SuSEconfig.bootsplash...
Executing /sbin/conf.d/SuSEconfig.doublecheck...
Executing /sbin/conf.d/SuSEconfig.guile...
Executing /sbin/conf.d/SuSEconfig.hostname...
Executing /sbin/conf.d/SuSEconfig.ispell...
Executing /sbin/conf.d/SuSEconfig.perl...
Executing /sbin/conf.d/SuSEconfig.permissions...
Executing /sbin/conf.d/SuSEconfig.postfix...
Setting up postfix local as MDA...
Setting SPAM protection to "off"...
Executing /sbin/conf.d/SuSEconfig.profiles...
Finished.
linux:~ #
```

Script 3.2. Running the SuSEconfig command.

The OTRS installation is done. Restart your web server to load the OTRS specific changes in its configuration, as shown in Script 3.3.

```
linux:~ # rcapache restart
Shutting down httpd                                done
Starting httpd [ PERL ]                             done
linux:~ #
```

Script 3.3. Restarting the web server.

The next step is to setup the OTRS database, as described at section 3.2.4.

Installing OTRS on a CentOS system

On the OTRS Wiki you can find detailed instructions for setting up OTRS on a CentOS system. Please note that these instructions will also apply to RedHat systems since they use the same source: http://wiki.otrs.org/index.php?title=Installation_of_OTRS_3.0b1_on_CentOS_5.5 [http://wiki.otrs.org/index.php?title=Installation_of_OTRS_3.0b1_on_CentOS_5.5].

Installing OTRS on a Debian system

On the OTRS Wiki you can find detailed instructions for setting up OTRS on a Debian system: http://wiki.otrs.org/index.php?title=Installation_on_Debian_5.04_jenny [http://wiki.otrs.org/index.php?title=Installation_on_Debian_5.04_jenny].

Installing OTRS on a Ubuntu system

On the OTRS Wiki you can find detailed instructions for setting up OTRS on an Ubuntu system: [http://wiki.otrs.org/index.php?title=Installation_on_Ubuntu_Lucid_Lynx_\(10.4\)](http://wiki.otrs.org/index.php?title=Installation_on_Ubuntu_Lucid_Lynx_(10.4)) [[http://wiki.otrs.org/index.php?title=Installation_on_Ubuntu_Lucid_Lynx_\(10.4\)](http://wiki.otrs.org/index.php?title=Installation_on_Ubuntu_Lucid_Lynx_(10.4))].

Installing OTRS on Microsoft Windows systems

Installing OTRS on a Microsoft Windows system is very easy. Download the latest installer for Win32 from <http://www.otrs.org/downloads/> [<http://www.otrs.org/downloads/>] 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. After that you will be able to login as OTRS administrator and configure the system according to your needs. To log in as OTRS administrator use the username 'root@localhost' and the default password 'root'.

Warning

Please change the password for the 'root@localhost' account as soon as possible.

Important

The Win32 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. For that reason you should only install OTRS on Windows systems that don't already have an installation of Apache or another web server, or MySQL.

Installation from source (Linux, Unix)

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.org/downloads/> [<http://www.otrs.org/downloads/>]

Unpack the archive (for example, using **tar**) into the directory `/opt`, and rename the directory from `otrs-3.0` to `otrs` (see Script 3.4 below).

```
linux:/opt# tar xf /tmp/otrs-3.0.tar.gz
linux:/opt# mv otrs-3.0 otrs
linux:/opt# ls
otrs
linux:/opt#
```

Script 3.4. First steps to install OTRS.

OTRS should NOT be run with root rights. You should add a new user for OTRS as the next step. 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 have to add the new 'otrs' user to the group of the web server user (see Script 3.5 below).

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

Script 3.5. 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 3.6 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 3.6. 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.

Installation of Perl modules

OTRS needs some additional Perl modules, as described in Table 3-1. If you install OTRS from source, you will have 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.

Table 3.1. Needed Perl modules for OTRS

Name	Description
DBI	Establishes a connection to the database back-end.
DBD::mysql	Contains special functions to connect to the MySQL database back-end (only required if MySQL is used).
DBD::pg	Contains special functions to connect to the PostgreSQL database back-end (only required if PostgreSQL is used).
Digest::MD5	Allows the use of the md5 algorithm.
CSS::Minifier	Minifies a CSS file and writes the output directly to another file.
Crypt::PasswdMD5	Provides interoperable MD5-based crypt functions.
MIME::Base64	Encodes / decodes Base64 strings, e.g. for mail attachments.
JavaScript::Minifier	Minifies a JavaScript file and writes the output directly to another file.
Net::DNS	Perl interface to the domain name system.
LWP::UserAgent	Processes HTTP requests.
Net::LDAP	Perl interface to a LDAP directory (only required if an LDAP back-end is used).
GD	Interface to the GD graphics library (only required if the OTRS stats module is used).
GD::Text, GD::Graph, GD::Graph::lines, GD::Text::Align	Some more text and graphic tools for the GD graphics library (only required if the OTRS stats module is used).
PDF::API2, Compress::Zlib	Needed to generate the PDF output for reports, search results and for the ticket print view.

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 3.7 below).

Please note that some modules are optional.

```
linux:~# cd /opt/otrs/bin/
linux:/opt/otrs/bin# ./otrs.CheckModules.pl
  o CGI.....ok (v3.49)
  o Crypt::PasswdMD5.....ok (v1.3)
  o CSS::Minifier.....ok (v0.01)
  o Date::Format.....ok (v2.24)
  o Date::Pcalc.....ok (v1.2)
  o DBI.....ok (v1.609)
  o DBD::mysql.....ok (v4.013)
  o Digest::MD5.....ok (v2.36_01)
  o Encode::HanExtra.....ok (v0.23)
```

```
o GD.....ok (v2.44)
  o GD::Text.....ok (v0.86)
  o GD::Graph.....ok (v1.44)
  o GD::Graph::lines.....ok (v1.15)
  o GD::Text::Align.....ok (v1.18)
o IO::Scalar.....ok (v2.110)
o IO::Wrap.....ok (v2.110)
o JavaScript::Minifier.....ok (v1.05)
o JSON.....ok (v2.21)
  o JSON::PP.....ok (v2.27003)
  o JSON::XS.....Not installed! (Optional - Install
it for faster AJAX/JavaScript handling.)
o LWP::UserAgent.....ok (v5.829)
o Mail::Internet.....ok (v2.06)
o Mail::POP3Client.....ok (v2.18 )
  o IO::Socket::SSL.....ok (v1.31)
o MIME::Base64.....ok (v3.07_01)
o MIME::Tools.....ok (v5.428)
o Net::DNS.....ok (v0.65)
o Net::POP3.....ok (v2.29)
o Net::IMAP::Simple.....ok (v1.1916)
  o Net::IMAP::Simple::SSL.....ok (v1.3)
o Net::SMTP.....ok (v2.31)
  o Authen::SASL.....ok (v2.15)
  o Net::SMTP::SSL.....ok (v1.01)
o Net::LDAP.....ok (v0.4001)
o PDF::API2.....ok (v0.73)
  o Compress::Zlib.....ok (v2.008)
o SOAP::Lite.....ok (v0.712)
o Text::CSV.....ok (v1.18)
  o Text::CSV_PP.....ok (v1.26)
  o Text::CSV_XS.....Not installed! (Optional -
Optional, install it for faster CSV handling.)
o XML::Parser.....ok (v2.36)
linux:/opt/otrs/bin#
```

Script 3.7. Checking needed modules.

You should strive to install the missing modules from your Linux distribution's package management system. In that way, 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 two commands **perl -cw bin/cgi-bin/index.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 3.8 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/otrs.PostMaster.pl
otrs.PostMaster.pl syntax OK
linux:/opt/otrs#
```

Script 3.8. Checking syntax.

Configuring the Apache web server

This section describes the basic configuration of the Apache web server with `mod_cgi` for OTRS. The web server should be able to execute CGI scripts. OTRS won't work if the Perl scripts cannot be parsed. Check the configuration files of your web server, and search for the line that loads the CGI module. If you see something like the following, the CGI module should already be in use.

```
LoadModule cgi_module /usr/lib/apache2/modules/mod_cgi.so
```

To access the web interface of OTRS conveniently via a short address, `Alias` and `ScriptAlias` entries are needed. Most Apache installations have a `conf.d` directory included. On Linux systems you can find this directory very often 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 3.11 below).

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

Script 3.11. Restarting the web server.

Now your web server should be configured for OTRS.

If you choose to increase performance and you can install `mod_perl`, then you can leave `mod_cgi` off, and configure the Apache web server for use with `mod_perl`, in the following manner:

Please ensure that `mod_perl` is installed and loaded, in order to take advantage of this feature. Due to the nature of the start-up script, your server will not fail to start if `mod_perl` is not properly loaded or compiled in your apache web server, unless `mod_cgi` is also on. Technically speaking you can leave `mod_cgi` on as well, but you should not.

Search your `/etc/apache*` directory for `mod_perl.so` (see Script 3.12 below) to see if the module is already loaded.

```
#:/ grep -Rn mod_perl.so /etc/apache*
```

Script 3.12. Searching for mod_perl.

When you use the appropriate start script listed above and the module is loaded, the script (when commented in) `/opt/otrs/scripts/apache2-perl-startup.pl` can be used to load the perl modules into memory one time, saving on load times and increasing performance.

Configuring the database

The simple way - Using the web installer (works only with MySQL)

If you use MySQL as the database back-end, you can use the OTRS web installer: <http://localhost/otrs/installer.pl> [<http://localhost/otrs/installer.pl>].

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

1. Check out the information about the OTRS offices and click on next to continue (see Figure 3.1 below).

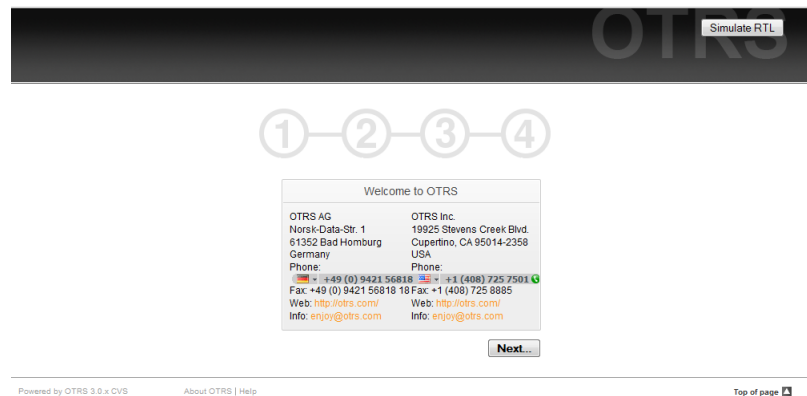


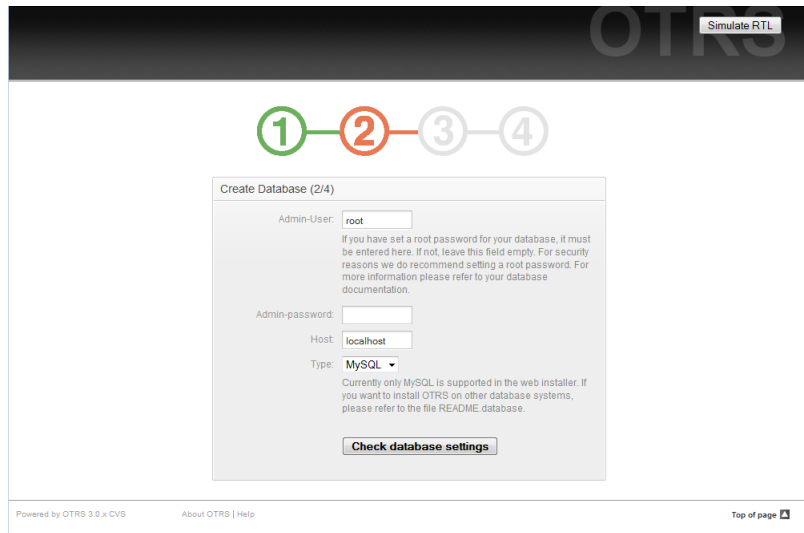
Figure 3.1. Welcome screen.

2. Read the GNU Affero General Public License (see Figure 3.2 below) and accept it, by clicking the corresponding button at the bottom of the page.



Figure 3.2. GNU Affero General Public License.

3. Provide the username and password of the administrator, the DNS name of the computer which hosts OTRS and the type of database system to be used. After that, check the settings (see Figure 3.3 below).



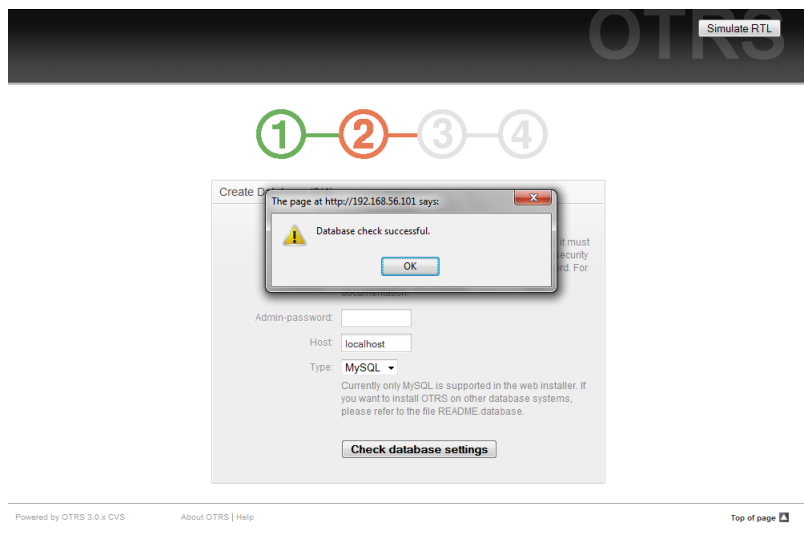
The screenshot shows the OTRS web installer interface. At the top, there's a header with the OTRS logo and a 'Simulate RTL' button. Below the header, a progress bar shows four steps: 1 (green), 2 (red), 3 (grey), and 4 (grey). The main content area is titled 'Create Database (2/4)'. It contains the following fields and options:

- Admin-User:** A text input field containing 'root'. Below it, a note states: 'If you have set a root password for your database, it must be entered here. If not, leave this field empty. For security reasons we do recommend setting a root password. For more information please refer to your database documentation.'
- Admin-password:** A text input field.
- Host:** A text input field containing 'localhost'.
- Type:** A dropdown menu set to 'MySQL'. Below it, a note states: 'Currently only MySQL is supported in the web installer. If you want to install OTRS on other database systems, please refer to the file README.database.'

At the bottom of the form is a button labeled 'Check database settings'. The footer of the page includes 'Powered by OTRS 3.0.x CVS', 'About OTRS | Help', and a 'Top of page' link.

Figure 3.3. Database initial settings.

You will be notified if the check was successful. Press OK to continue (see Figure 3.4 below).



This screenshot is similar to Figure 3.3, but it includes a modal dialog box in the center. The dialog box has a yellow warning icon and the text: 'The page at http://192.168.56.101 says: Database check successful.' with an 'OK' button. The background form is partially obscured by the dialog box. The rest of the interface, including the progress bar and footer, remains the same as in Figure 3.3.

Figure 3.4. Notification for successful check.

4. Create a new database user, choose a name for the database and click on 'Next' (see Figure 3.5 below).

Warning

It is never a good idea to use default passwords. Please change the default password for the OTRS database!

Create Database (2/4)

Admin-User:

If you have set a root password for your database, it must be entered here. If not, leave this field empty. For security reasons we do recommend setting a root password. For more information please refer to your database documentation.

Admin-password:

Host:

Type:

Currently only MySQL is supported in the web installer. If you want to install OTRS on other database systems, please refer to the file README.database.

Database-User (New)

User:

A new database user with limited rights will be created for this OTRS system.

Password:

default 'root'

DB connect host:

Database

Name:

Action: ☒ Create ☐ Delete

Figure 3.5. Database settings.

If the database and its user were successfully created, you will get a setup notification, as shown in Figure 3.6. Click 'Next' to go to the next screen.

OTRS

1 2 3 4

Create Database (2/4)

Creating database 'otrs': **Done.**

Creating tables 'otrs-schema.mysql.sql': **Done.**

Inserting initial inserts 'otrs-initial_insert.mysql.sql': **Done.**

Foreign Keys 'otrs-schema-post.mysql.sql': **Done.**

Creating database user 'otrs@localhost': **Done.**

Reloading grant tables: **Done.**

—=> Database setup successfull

Powered by OTRS 3.0.x CVS About OTRS | Help [Top of page](#)

Figure 3.6. Notification indicating successful database setup.

5. Provide all the required system settings and click on 'Next' (see Figure 3.7 below).

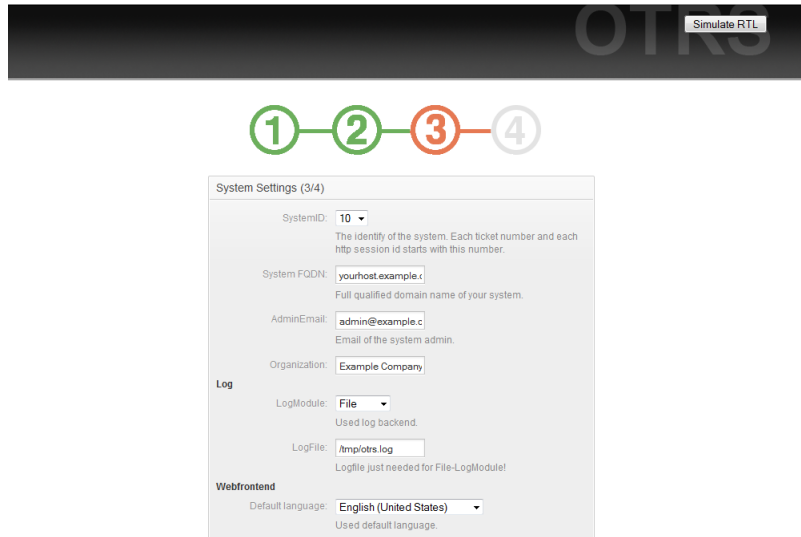


Figure 3.7. System settings.

6. If you want, 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 3.8 below).

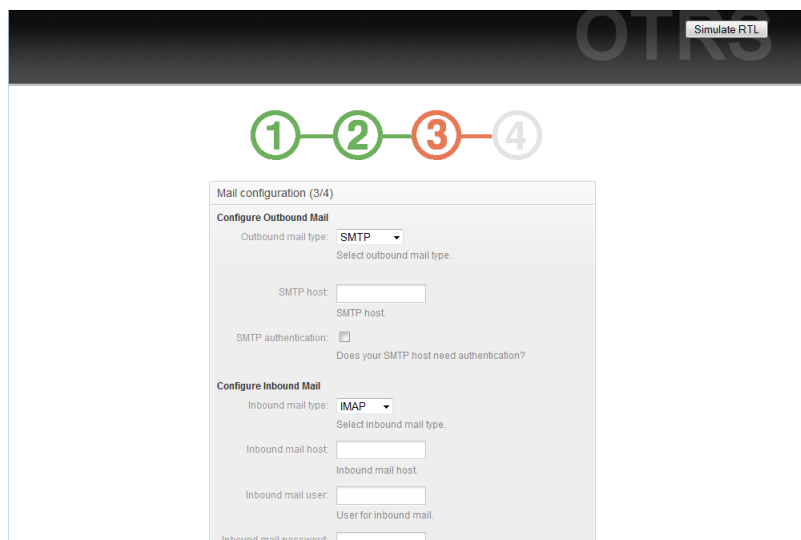


Figure 3.8. Mail configuration.

7. Restart the OTRS service now to use the new configuration settings as shown in the Script 3.13.

```
linux:~ # rcotrs restart-force
Shutting down OTRS
  Disable /opt/otrs/bin/otrs.PostMaster.pl ... done.
no crontab for otrs
  Shutting down cronjobs ... failed!
Shutting down OTRS (completely)
  Shutting down Apache ... done.
```

```

Shutting down MySQL ... done.

done
Starting OTRS (completely)
  Starting Apache ... done.
  Starting MySQL ... done.
Starting OTRS
  Checking Apache ... done.
  Checking MySQL ... done.
  Checking database connect... (It looks Ok!).
  Enable /opt/otrs/bin/otrs.PostMaster.pl ... done.
  Checking otrs spool dir... done.
  Creating cronjobs (source /opt/otrs/var/cron/*) ... done.

-->> http://linux.example.com/otrs/index.pl <--

done

done
linux:~ #

```

Script 3.13. Restarting the OTRS service.

Congratulations! Now the installation of OTRS is finished and you should be able to work with the system (see Figure 3.9 below). To log into the web interface of OTRS, use the address `http://localhost/otrs/index.pl` [http://localhost/otrs/index.pl] from your web browser. Log in as OTRS administrator, using the username 'root@localhost' and the password 'root'. After that you can configure the system for your needs.

Warning

Please change the password for the 'root@localhost' account as soon as possible.

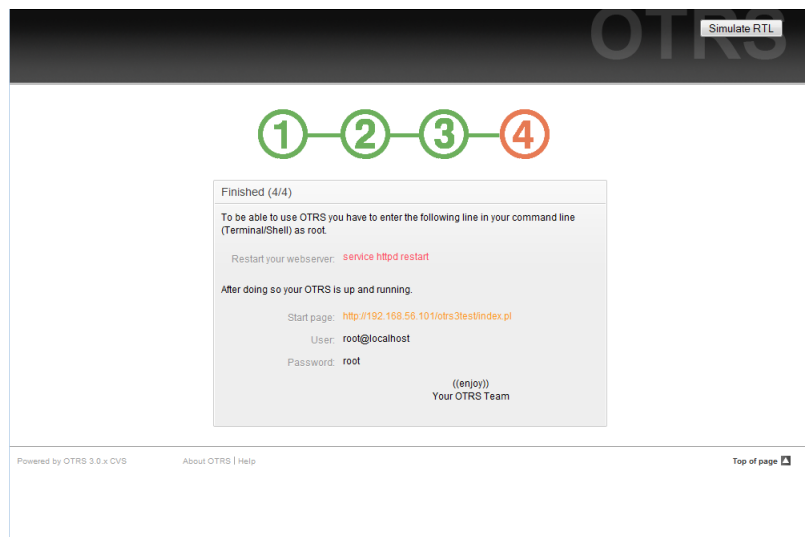


Figure 3.9. Final steps to install OTRS.

Installing the OTRS database manually

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 3.14 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 3.14. 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 your database, use one of the files `otrs-initial_insert.mysql.sql`, `otrs-initial_insert.db2.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 3.15 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 3.15. Parameters to be customized.

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 3.16 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 3.16. 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 3.17 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 3.17. Copying and renaming all the files needed to create the cron jobs.

Table 3-2 describes the different cron jobs.

Table 3.2. 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 3.18 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 3.18. 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 3.19 below).

```
linux:/opt/otrs/bin# crontab -l -u otrs
# --
# cron/aaa_base - base crontab package
# Copyright (C) 2001-2011 OTRS AG, http://otrs.org/
# --
# This software comes with ABSOLUTELY NO WARRANTY.
# --
# Who gets the cron emails?
MAILTO="root@localhost"

# --
# cron/cache - delete expired cache
# Copyright (C) 2001-2011 OTRS AG, http://otrs.org/
# 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) 2001-2011 OTRS AG, http://otrs.org/
# --
# 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) 2001-2011 OTRS AG, http://otrs.org/
# --
# --
# 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) 2001-2011 OTRS AG, http://otrs.org/
# --
# 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) 2001-2011 OTRS AG, http://otrs.org/
# --
# 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) 2001-2011 OTRS AG, http://otrs.org/
# --
# This software comes with ABSOLUTELY NO WARRANTY.
# --
# check daily the spool directory of OTRS
#10 0 * * * * test -e /etc/init.d/otrs & /etc/init.d/otrs cleanup
>> /dev/null; test -e /etc/rc.d/init.d/otrs && /etc/rc.d/init.d/otrs
cleanup >> /dev/null
10 0 * * * $HOME/bin/otrs.CleanUp.pl >> /dev/null
# --
# cron/postmaster_mailbox - postmaster_mailbox cron of the OTRS
# Copyright (C) 2001-2011 OTRS AG, http://otrs.org/
# --
# 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) 2001-2011 OTRS AG, http://otrs.org/
# --
# 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) 2001-2011 OTRS AG, http://otrs.org/
# --
# 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) 2001-2011 OTRS AG, http://otrs.org/
# --
# 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 3.19. Crontab file.

Upgrading the OTRS Framework

These instructions are for people upgrading OTRS from version 2.4 to 3.0, and apply both for RPM and source code (tarball) upgrades.

If you are running a lower version of OTRS, you have to follow the upgrade path to 2.4 first (1.1->1.2->1.3->2.0->2.1->2.2->2.3->2.4->3.0 ...).

If you need to do a "patch level upgrade", which is an upgrade for instance from OTRS version 3.0.3 to 3.0.4, you should skip steps 8, 9, 10, and 13 - 16.

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/*

3. Backup the database.

4. 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> tar -xzf otrs-x.x.x.tar.gz
shell> ln -s otrs-x.x.x otrs
```

Restore old configuration files.

- Kernel/Config.pm
- Kernel/Config/GenericAgent.pm
- Kernel/Config/Files/ZZZAuto.pm
- 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 2.4 and 3.0 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).

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. Apply the database changes (part 1/2):

```
shell> cd /opt/otrs/

# MySQL:
shell> cat scripts/DBUpdate-to-3.0.mysql.sql | mysql -p -f -u root
otrs
# PostgreSQL:
shell> cat scripts/DBUpdate-to-3.0.postgresql.sql | psql otrs
```

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

You must execute the migration script to migrate some data from the old database structure to the new one. Please run:

```
shell> scripts/DBUpdate-to-3.0.pl
```

10 Apply the database changes (part 2/2):

```
# MySQL:
shell> cat scripts/DBUpdate-to-3.0-post.mysql.sql | mysql -p -f -u
      root otrs
# PostgreSQL:
shell> cat scripts/DBUpdate-to-3.0-post.postgresql.sql | psql otrs
```

11 Refresh the configuration and delete caches. Please run:

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

12 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
```

13 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.

14 Check for encoding issues:

With OTRS 3.0, the default charset of OTRS was changed from "iso-8859-1" to "utf-8".

This will only affect you if you did not specify a charset in Kernel/Config.pm (all installations that were made with the web installer have a custom setting there) or if you didn't change the default charset in the AdminSysConfig.

If you experience problems with the new charset, add this line to Kernel/Config.pm:

```
$Self->{'DefaultCharset'} = 'iso-8859-1';
```

In general, using "utf-8" is the recommended mode of running OTRS, and switching from "iso-8859-1" should work well.

Please note: We recommend you change existing non-UTF-8 installations of OTRS to UTF-8 with the upgrade to 3.0. All other encodings are now deprecated.

OTRS 3.1 will only allow UTF-8 as the internal charset.

15 Check for Custom Frontend Module Registrations

Starting with OTRS 3.0, application modules may have their own special CSS and/or JavaScript code. This is part of the frontend module registration of the modules in the SysConfig. This may cause problems during the upgrade, because locally modified frontend module configuration settings will not catch the updates of the new default configuration.

To check if you are affected, please look at the file `Kernel/Config/Files/ZZZAuto.pm` and look for entries like:

```
$Self->{'Frontend::Module'}->{'AgentStats'} = { ... };
```

These settings should be reset to their default value in Admin -> SysConfig (in this case: 'Frontend::Module###AgentStats') with the little "Reset" button next to the "Active" checkbox. Then the settings will be reset with the new module-specific settings and no longer show up in `Kernel/Config/Files/ZZZAuto.pm`. After this procedure, you may customize these settings again, if needed.

The same procedure must be executed for the setting "Frontend::ToolBarModule###1-Ticket::TicketSearchFulltext", as this now also uses module specific CSS styles. If this setting is not activated on your system, you can safely omit this step.

16. Check for customized PreferencesGroups entries

With OTRS 3.0, there were a few corrections in PreferencesGroups configuration entries. Notably, the keys 'Activ' and 'Colum' were changed to 'Active' and 'Column', respectively. You only need to take action if you have customized such settings on your system, otherwise they will be updated automatically.

To check if you are affected, please look at the file `Kernel/Config/Files/ZZZAuto.pm` and look for entries like:

```
$Self->{'CustomerPreferencesGroups'}->{'RefreshTime'} = {  
  'Activ' => '0',  
  'Colum' => 'Frontend',  
  'Data' => {  
    '' => 'off',  
    '10' => '10 minutes',  
    '15' => '15 minutes',  
    '2' => ' 2 minutes',  
    '5' => ' 5 minutes',  
    '7' => ' 7 minutes'  
  },  
  'Desc' => 'Select your QueueView refresh time.',  
  'Label' => 'QueueView refresh time',  
  'Module' => 'Kernel::Output::HTML::PreferencesGeneric',  
  'PrefKey' => 'UserRefreshTime',  
  'Prio' => '4000'  
};
```

This needs to be changed as follows:

```
$Self->{'CustomerPreferencesGroups'}->{'RefreshTime'} = {
  'Active' => '0',
  'Column' => 'Frontend',
  'Data' => {
    '' => 'off',
    '10' => '10 minutes',
    '15' => '15 minutes',
    '2' => ' 2 minutes',
    '5' => ' 5 minutes',
    '7' => ' 7 minutes'
  },
  'Desc' => 'Select your QueueView refresh time.',
  'Label' => 'QueueView refresh time',
  'Module' => 'Kernel::Output::HTML::PreferencesGeneric',
  'PrefKey' => 'UserRefreshTime',
  'Prio' => '4000'
};
```

17.Customer Database Backend Field Renaming

The field 'salutation' in the built-in customer database has been renamed to the more appropriate 'title'. If you are using the built-in database data source for customers, and you have changed the configuration, for instance because you have added fields to the customer table, or because you have enabled Customer Company support, you should change the mapping in your `Kernel/Config.pm`:

Change this line:

```
[ 'UserSalutation', 'Salutation', 'salutation', 1, 0, 'var',
'', 0 ],
```

to:

```
[ 'UserTitle',      'Title',      'title',      1, 0, 'var',
'', 0 ],
```

Please note that this can also affect any salutations or other templates where you have used the string `<OTRS_*_UserSalutation>`. If you have used this string AND you use the built-in customer table, please replace it with `<OTRS_CURRENT_UserTitle>` instead.

18.Check Your Cronjobs

With OTRS 3.0, some commandline scripts were renamed, such as `otrs.PostMaster.pl`. Please check that your cronjobs still use the correct filenames. With RPM upgrades, files such as `/etc/sysconfig/otrs` sometimes are not correctly overwritten, thus keeping the old cron settings, which may lead to errors.

19.Optional: Mark Tickets as Read

In OTRS 3.0 there is a new feature: New tickets and new articles which an Agent did not read yet are highlighted as 'unread'. For all tickets which were created before the upgrade to OTRS

3.0, the 'read' information is missing, and therefore these tickets will be marked as 'unread'. If this bothers you, you can use a script to set all tickets and articles as read for all agents which have read permissions for these tickets. Note that this script may run for a while!

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

20.Well done!

Upgrading Windows Installer

There is currently no in-place upgrade tool available for OTRS installations that were done with the Windows Installer. The upgrade process basically consists of backing up the database and the filesystem, uninstalling OTRS, installing the new version, restoring the database and running the upgrade procedure if needed.

Upgrading is described in FAQ# 4200351 [<http://faq.otrs.org/otrs/public.pl?Action=PublicFAQ;ItemID=351>], and there is also an informative YouTube video [<http://www.youtube.com/watch?v=sf0R-reMTWc>] available.

Chapter 4. First steps

This chapter's goal is to give a quick 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 for every account.

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` [`http://www.example.com/`], then the OTRS login screen can be reached by using the address `http://www.example.com/otrs/index.pl` [`http://www.example.com/otrs/index.pl`] in a web browser (see Figure 4.1 below).

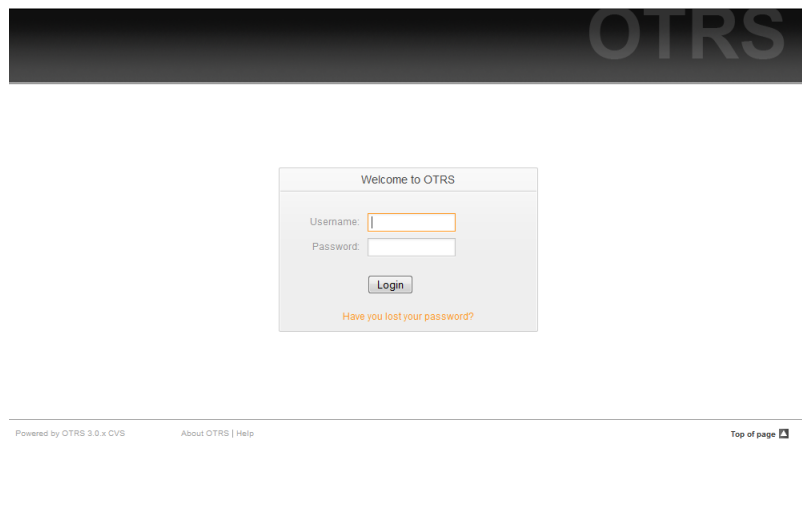


Figure 4.1. Login screen of the agent interface.

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 created, etc.

Continuing with the above example, the customer login screen can be reached by using the URL `http://www.example.com/otrs/customer.pl` [`http://www.example.com/otrs/customer.pl`] with a web browser (see Figure 4.2 below).

Company Support

Login

Username

Password

Login

Forgot password?

Not yet registered? [Sign up now.](#)

Powered by OTRS 3.0.x CVS

Figure 4.2. Login screen of the customer interface.

Public web interface

In addition to the web interfaces for agents and customers, OTRS also has a public web interface that 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 URLs below: <http://www.example.com/otrs/faq.pl> [<http://www.example.com/otrs/faq.pl>] , <http://www.example.com/otrs/public.pl> [<http://www.example.com/otrs/public.pl>]

The screenshot shows a web browser window displaying the OTRS public web interface. The browser's address bar shows the URL <http://portal.otrs.de/otrs/public.pl?Action=PublicFAQ&Subaction=Explorer>. The page features a header with the OTRS logo ((otrs)) and the tagline "The Ticket People." Below the header, there is a navigation bar with links for "Explorer: FAQ#". The main content area is titled "FAQ" and includes a "default comment" section. A table lists various FAQ entries with columns for "Name / Comment", "subcategories", and "Article". The table contains three entries: "OTRS Framework", "Bugszilla", and "FileManager Module". To the right of the table, there is a "quick search" section with a search input field and a "Search" button. Below the search section, there are two sections: "latest created article" and "latest changed article", each displaying a list of recent articles with their titles, tags, and timestamps.

Name / Comment	subcategories	Article
OTRS Framework Questions and answers about the OTRS framework	4	19
Bugszilla Reporting Bugs	0	1
FileManager Module A web file system manager with download/upload option.	0	1
Benchmark Module A simple benchmark application	0	1

Figure 4.3. Public web interface.

First login

Access the login screen as described in the section [Agent web interface](#) . Enter a user name and a password. Since the system has just been freshly 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 4.4](#)).

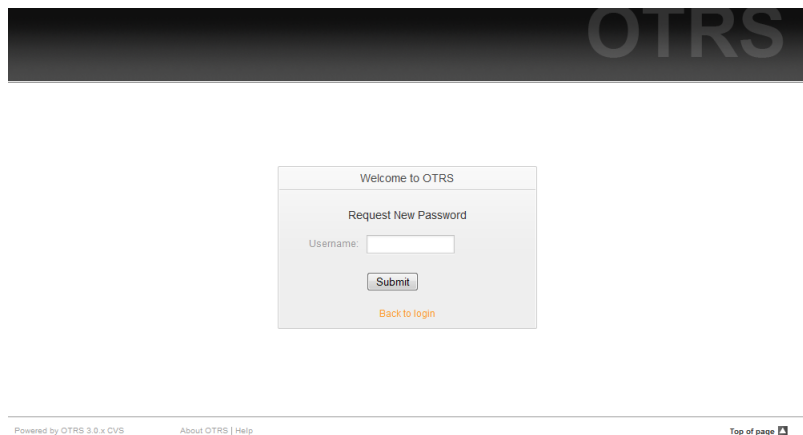


Figure 4.4. Request new password.

The web interface - an overview

On successfully logging into the system, you are presented with the Dashboard page (see [Figure 4.5](#) below). The Dashboard is completely customizable. 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 which are pending, escalated, new and open.

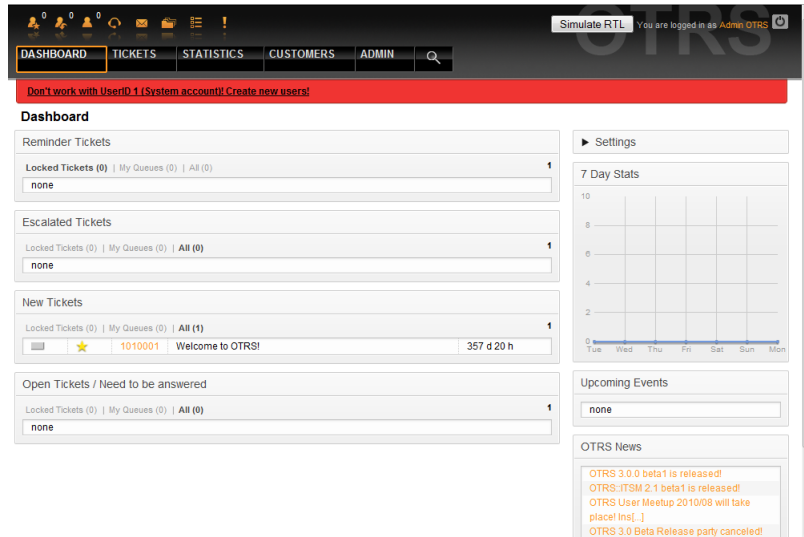


Figure 4.5. Dashboard of the agent interface.

To improve clarity, the general web interface is separated into different areas. The top row of each page shows some general information such 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 which is the default start page after login. 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 choosing 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 the administrator modules, allowing 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 File Manager or the Web Mailer, 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 each in a separate box. These boxes can be relocated within the same column by clicking on and dragging the box header, and dropping them elsewhere.

In the left column, you can see information on some tickets classified as - reminder, escalated, new and open. In each of the categories, you are also able to see all tickets you are allowed to access, how many tickets you have locked and how many are located in "My Queues". "My Queues" are queues that you identify in your user configuration account preferences as those you have a special interest in tracking.

In the right column is the Settings button. Click on it to expand the section and see the various settings, as shown in Figure 4.6. You can then check or uncheck the individual settings options, and save your changes. This section is fixed, so you can not drag and drop it.

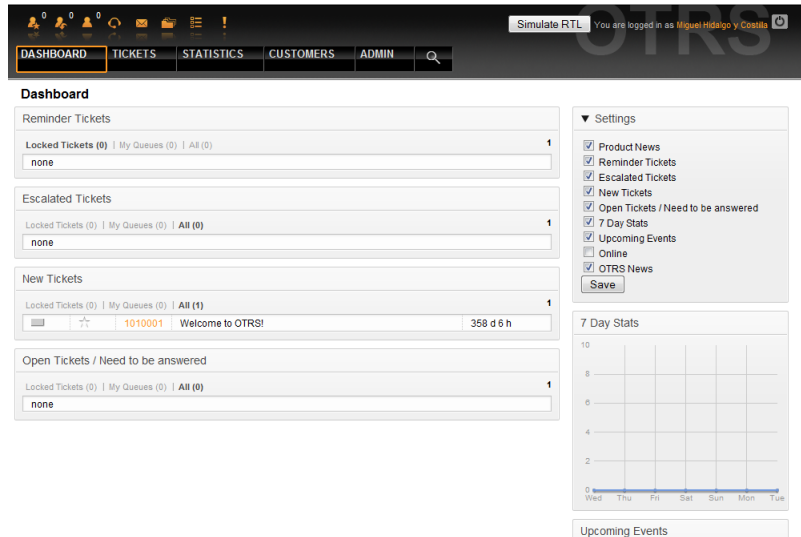


Figure 4.6. Dashboard Settings.

Below the settings area, you can see a section with a graph of ticket activity over the past 7 days. Further below is a section showing Upcoming Events and OTRS News.

Finally at the bottom of the page, the site footer is displayed (see Figure 4.7 below). It contains links to directly access the OTRS official website, or go to the Top of the page.



Figure 4.7. Footer.

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 the new product. More and more emails get into the one queue of Max's OTRS and it's hard 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. Fresh new mails arriving at the ticket system are stored into the old queue titled "raw". Of the two new queues, one titled "video recorder" is for video recorder requests, while the other one titled "dvd recorder" is for dvd recorder requests.

Max asks Sandra to watch the "raw" queue and sort (dispatch) the mails 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. Else, if two different mail addresses are used, Sandra only has to dispatch those emails into the two other queues, that 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.

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 4.8 below), and customers must click on the "Preferences" link (see Figure 4.9 below).

Figure 4.8. 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.

Company Personal Support [Simulate RTL](#)

[New Ticket](#) [My Tickets](#) [Company Tickets](#) [Search](#) [Preferences](#) [Logout](#)

Interface language

Your language: English (United States) [Update](#)

Number of displayed tickets

Max. displayed tickets: 25 [Update](#)

Ticket overview

Refresh interval: off [Update](#)

Change password

New Password:

Verify Password:

[Update](#)

S/MIME Certificate

S/MIME Certificate Upload: [Browse...](#) [Update](#)

Powered by OTRS 3.0.x CVS [About OTRS Help](#)

Figure 4.8. 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 5. The ADMIN area of OTRS

Basics

OTRS administrators use the Admin page on the OTRS web interface to configure the system - 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 5.1 below). The rest of the agents won't see this link.

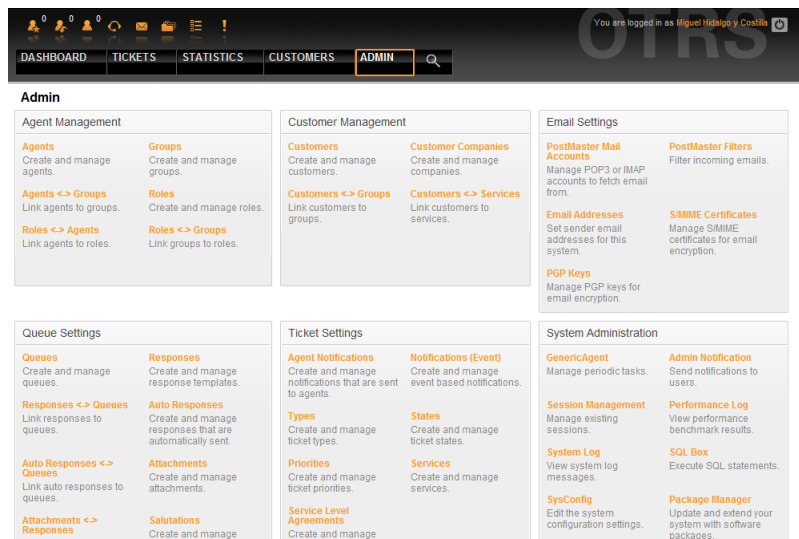


Figure 5.1. OTRS Admin screen.

Agents, Groups and Roles

Agents

By clicking the link *Agents*, you get access to the agent management screen of OTRS (see Figure 5.2 below). Administrators can add, change or deactivate agent accounts. Administrators can also manage agent preferences, for instance the language and notification settings for their 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*.

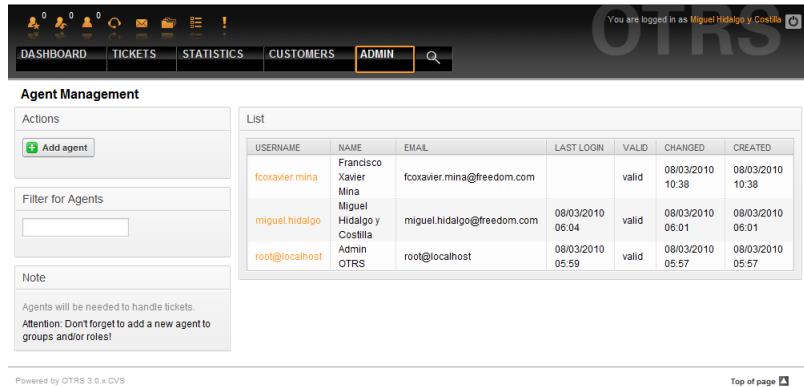


Figure 5.2. Agent management.

To register an agent, click on the "Add agent" button, type all the needed data and press the Submit button at the bottom of the screen, as shown in Figure 5.3.

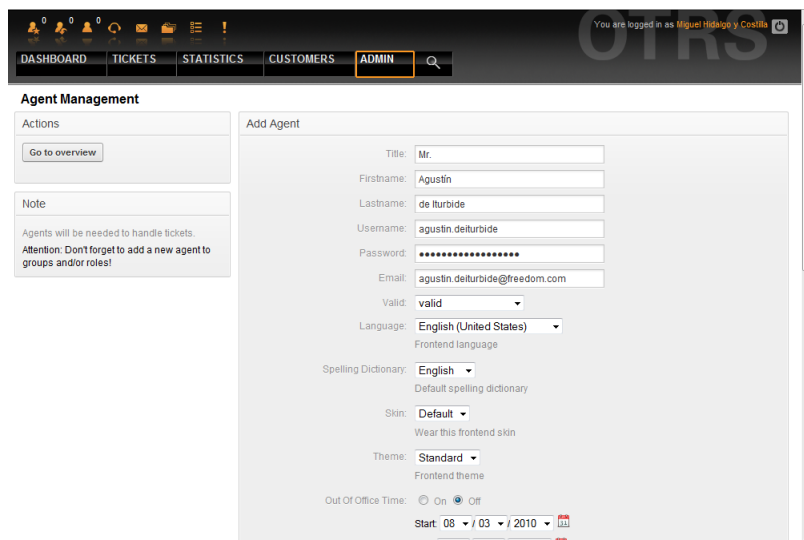


Figure 5.3. Adding a new agent.

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.

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 5.1. 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.
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 group *users* is initially empty. The agent 'root@localhost' belongs by default to the admin and stats groups.

You can access the group management page (see Figure 5.4 below) by clicking the *Groups* link in the admin area.

The screenshot shows the OTRS Group Management interface. At the top, there's a navigation bar with 'ADMIN' highlighted. Below it, the 'Group Management' section is visible. On the left, under 'Actions', there's a green 'Add group' button. In the center, a table lists the default groups. On the right, a 'Note' box provides instructions on how to use the groups.

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

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.

Figure 5.4. 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 5.5 below).

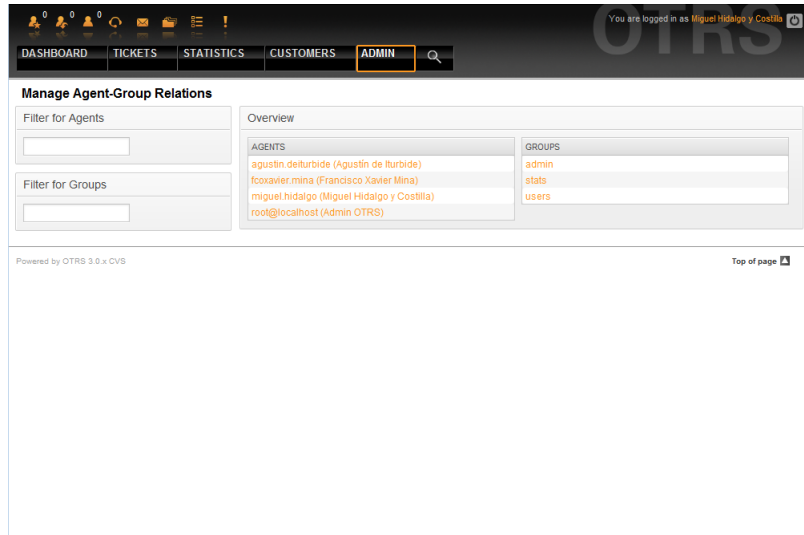


Figure 5.5. Group management.

An overview of all groups and agents in the system is displayed. You can also use the filters to find a specific entity. If you want to change the groups that an agent is member of, just click on the agent's name (see Figure 5.6 below). To change the agents associated with a group, just click on the group you want to edit (see Figure 5.7 below).

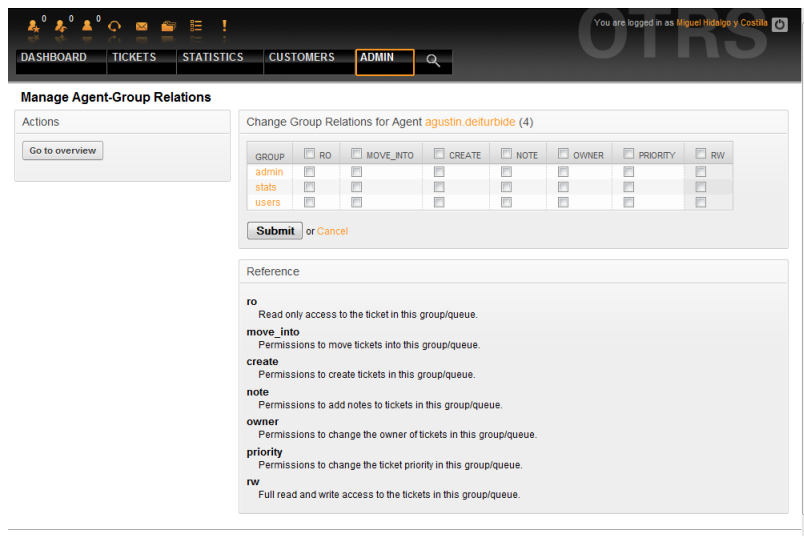


Figure 5.6. Change the groups an agent belongs to.

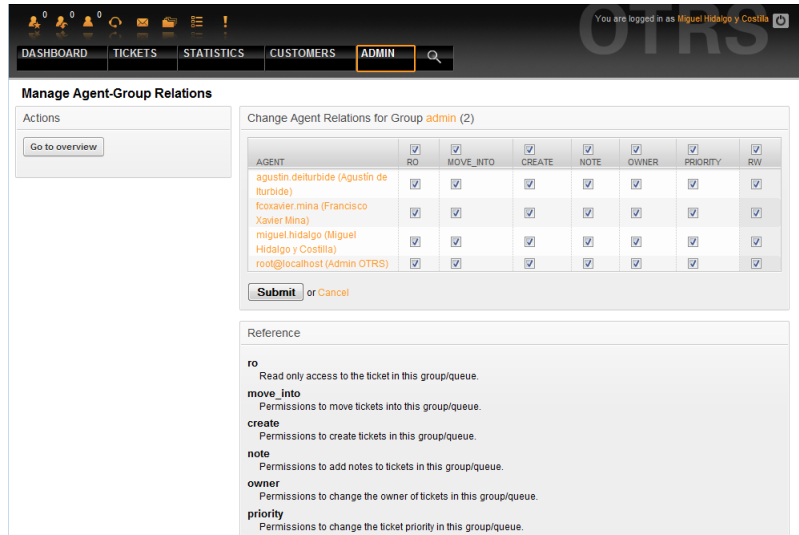


Figure 5.7. Change the agents that belong to a specific group.

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

Table 5.2. 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.
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.

Roles

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

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 shall do this via 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 different 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 rights automatically changed. 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 maintaining larger OTRS installations. You should take care in their use though. Mixing Agent to Group with Agent to Role mappings can make for a complex access control scheme, 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 5.8 below) by clicking the *Roles* link on the Admin page.

Role Management

Actions

[Add role](#)

Note

Create a role and put groups in it. Then add the role to the users.

NAME	COMMENT	VALID	CHANGED	CREATED
Help desk	Member of the help desk tel.]	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

Powered by OTRS 3.0.x CVS

Top of page

Figure 5.8. 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 5.9 below).

The screenshot shows the OTRS ADMIN interface. At the top, there's a navigation bar with tabs: DASHBOARD, TICKETS, STATISTICS, CUSTOMERS, and ADMIN (highlighted). A search bar is next to the ADMIN tab. Below the navigation bar, the page title is "Role Management". On the left, there's a sidebar with "Actions" (containing a "Go to overview" button) and a "Note" section. The main content area is titled "Add Role" and contains a form with the following fields: "Name" (text input with "IT supervisor"), "Valid" (dropdown menu with "valid" selected), and "Comment" (text input with "Supervisor of the IT department"). At the bottom of the form are "Submit" and "Cancel" buttons. The footer of the page indicates "Powered by OTRS 3.0.x CVS" and a "Top of page" link.

Figure 5.9. 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 5.10 below). To change the agents associated with a role, click on the role you want to edit (see Figure 5.11 below).

The screenshot shows the OTRS ADMIN interface for managing role-agent relations. The navigation bar is the same as in Figure 5.9. The page title is "Manage Role-Agent Relations". On the left, there's a sidebar with "Actions" (containing a "Go to overview" button) and a "Filter" section with a text input field. The main content area is titled "Change Role Relations for Agent agustin.deiturbide (4)". It contains a table with the following data:

ROLE	ACTIVE
Help desk	<input checked="" type="checkbox"/>
IT supervisor	<input checked="" type="checkbox"/>
Service desk	<input checked="" type="checkbox"/>

At the bottom of the table are "Submit" and "Cancel" buttons. The footer of the page indicates "Powered by OTRS 3.0.x CVS" and a "Top of page" link.

Figure 5.10. Change the Roles associated with an Agent.

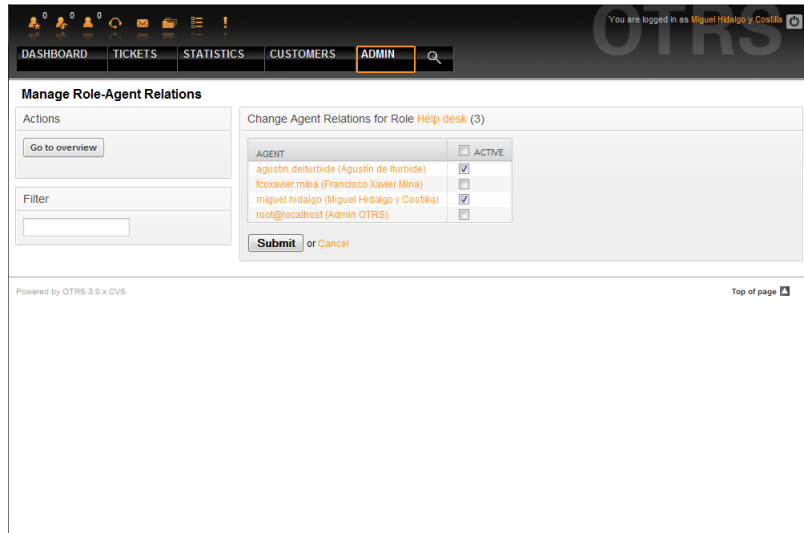


Figure 5.11. Change the Agents associated with a specific Role.

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 5.12. You can also use filters to find a specific entity.

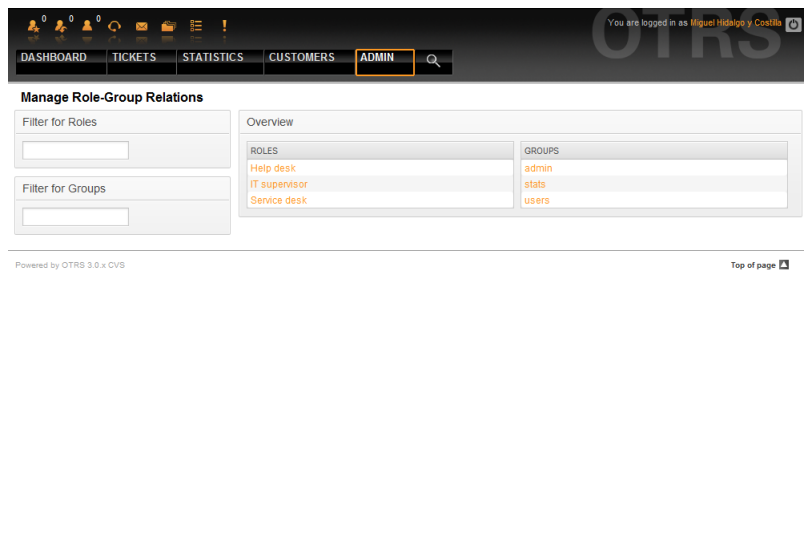


Figure 5.12. Manage Roles-Groups relations.

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

Actions

[Go to overview](#)

Filter

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).

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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

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.

Powered by OTRS 3.0.x CVS Top of page

Figure 5.13. Change Group relations for a Role.

Manage Role-Group Relations

Actions

[Go to overview](#)

Filter

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).

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](#)

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.

Powered by OTRS 3.0.x CVS Top of page

Figure 5.14. Change Role relations for a Group.

Customers and Customer Groups

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 5.14 below), who can log into the system via the Customers interface (customer.pl). Through this interface, your customers can create tickets and access them as they are updated. It is important to know that a customer is needed for the ticket history in the system.

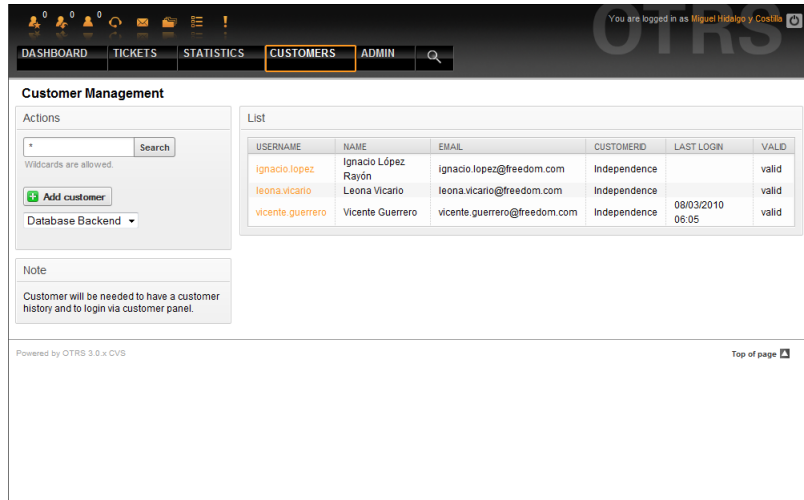


Figure 5.14. Customer management.

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 5.15 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.

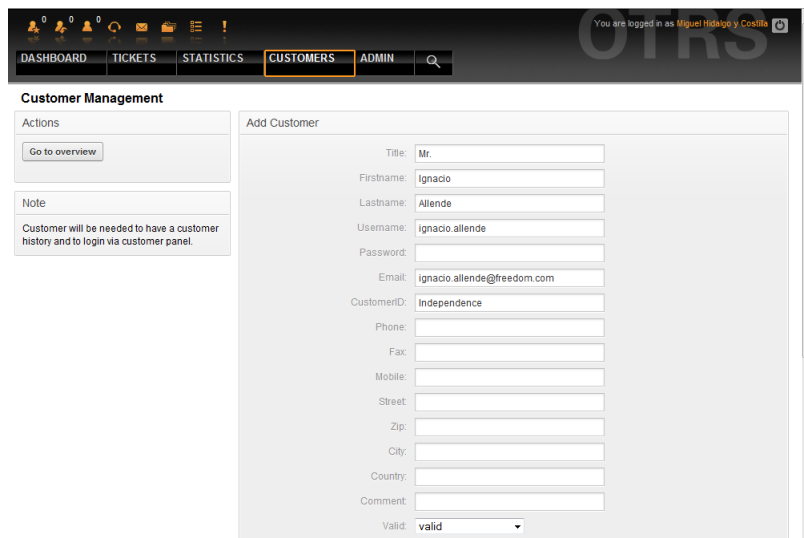


Figure 5.14. Adding a customer.

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*.

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 5.15 below).

Manage Customer-Group Relations

Actions

Search for customers (wildcards are allowed):

Edit Customer Default Groups
 These groups are automatically assigned to all customers. They can be administered through the configuration setting "CustomerGroupAlwaysGroups".

Filter for Groups

Search Result:

CUSTOMERS (4)

- Mr. Ignacio Allende <ignacio.allende@freedom.com> (Independence)
- Mr. Ignacio López Rayón <ignacio.lopez@freedom.com> (Independence)
- Mr. Vicente Guerrero <vicente.guerrero@freedom.com> (Independence)
- Mrs. Leona Vicario <leona.vicario@freedom.com> (Independence)

GROUPS

- admin
- stats

Customer Default Groups:

GROUPS

- users
- info

No changes can be made to these groups.

Powered by OTRS 3.0.x CVS Top of page

Figure 5.15. 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).

Manage Customer-Group Relations

Actions

Edit Customer Default Groups
 These groups are automatically assigned to all customers. They can be administered through the configuration setting "CustomerGroupAlwaysGroups".

Filter for Groups

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).

Change Group Relations for Customer ignacio.allende (ignacio.allende)

GROUP	RO	RW
admin	<input type="checkbox"/>	<input type="checkbox"/>
stats	<input type="checkbox"/>	<input type="checkbox"/>

or

Customer Default Groups:

GROUPS

- users
- info

No changes can be made to these groups.

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 5.16. Change Group relations for a Customer.

Actions

Go to overview

* Search

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).

Change Customer Relations for Group admin (2)

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 5.17. Change Customer relations for a Group.

Queues

Clicking on the link "Queues" of the Admin page, you can manage the queues of your system (see Figure 5.18 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.

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 5.18. Queue management.

Here you can add queues (see Figure 5.19 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 OTRS ADMIN interface. At the top, there's a navigation bar with tabs: DASHBOARD, TICKETS, STATISTICS, CUSTOMERS, and ADMIN (which is highlighted). Below the navigation bar, there's a 'Manage Queues' section. On the left, there's an 'Actions' panel with a 'Go to overview' button. The main area is titled 'Add Queue' and contains a form for creating a new queue. The form fields are: Name (text input, value: Support), Sub-queue of (dropdown menu, value: -), Group (dropdown menu, value: admin), Unlock timeout minutes (text input, value: 1220), Escalation - first response time (minutes) (text input, value: 60), Escalation - update time (minutes) (text input, value: 180), and Escalation - solution time (minutes) (text input, value: 300). Each time input field has a '(Notify by: -)' dropdown next to it. Below each time input, there's a small text block explaining the settings: '0 = no unlock - 24 hours = 1440 minutes - Only business hours are counted. If an agent locks a ticket and does not close it before the unlock timeout has passed, the ticket will unlock and will become available for other agents.' for the unlock timeout; and '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.' for the escalation times.

Figure 5.19. 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 to the customer, either by email or phone, the ticket is escalated.

Escalation - Update Time

- If there is any customer followup via e-mail or the customer portal and 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 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*.

Salutations, signatures, attachments and responses

Salutations

A salutation is a text module for a response. 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 5.20 below).

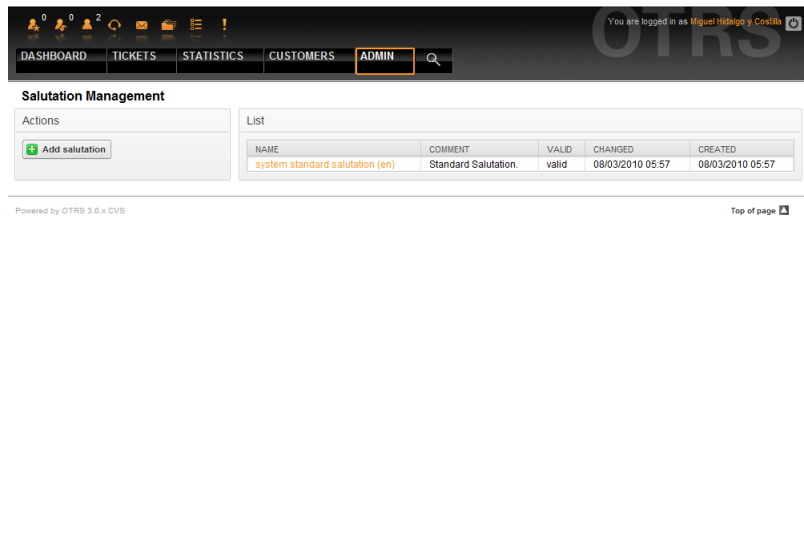


Figure 5.20. Salutation management.

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 needed data and submit it (see Figure 5.21 below).

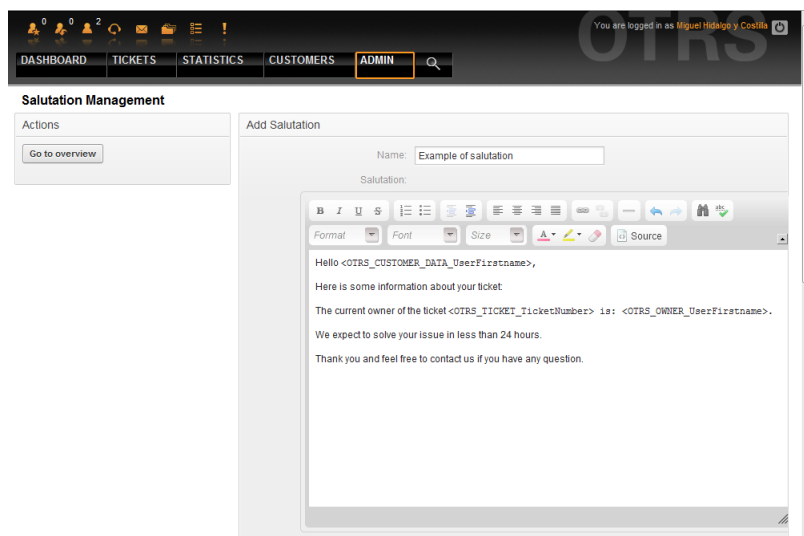


Figure 5.21. Adding a new salutation.

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 responses 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*.

Signatures

Another text module for a response is the signature. Signatures can be linked to a queue, as described in the section about the queues. Only if a signature is linked to a queue will it be included into the response text. Through the "Signatures" link of the Admin page, you can manage the signatures in your system (see Figure 5.22 below).

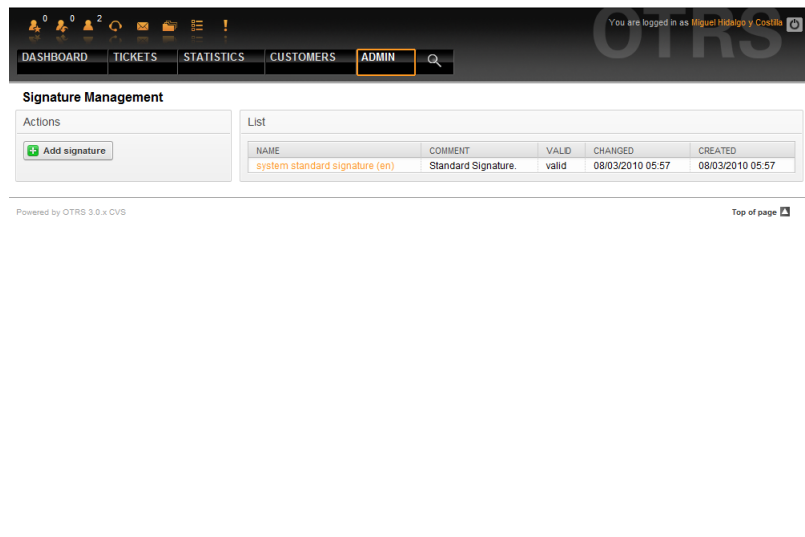


Figure 5.22. Signatures management.

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 5.23 below).

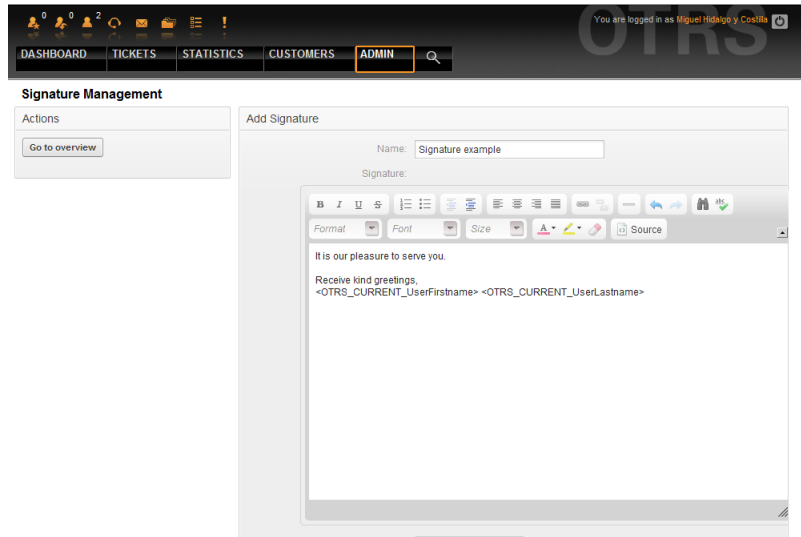


Figure 5.23. Adding a new signature.

Like salutations, signatures can also contain dynamical 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*.

Attachments

You can also optionally add one or more attachments for a response. If the response is selected, the attachments will be attached to the message composition window. If necessary, the agent can remove the attachment from an individual response 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 5.24 below).

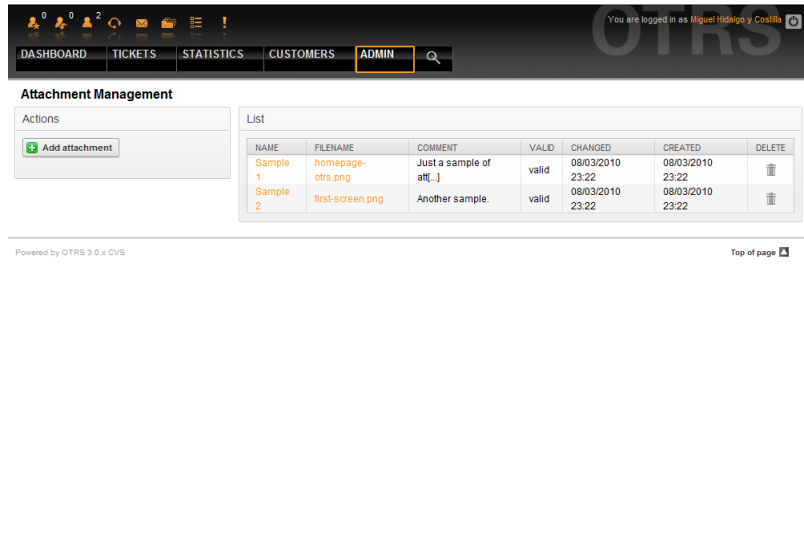


Figure 5.24. Attachments management.

To create a new attachment, press the button "Add attachment", provide the needed data and submit it (see Figure 5.25 below).

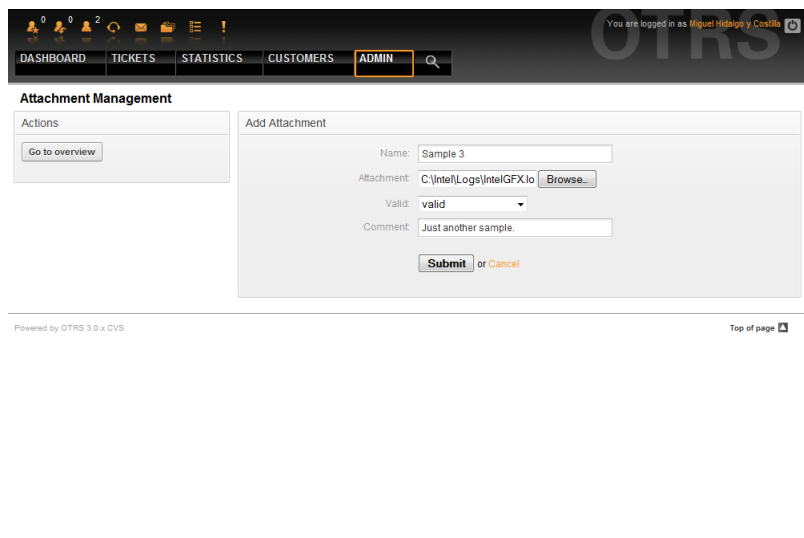


Figure 5.25. Adding a new attachment.

If an attachment is stored it can be linked to one or more responses. Click on the "Attachment <-> Responses" link of the Admin page (see Figure 5.26 below).

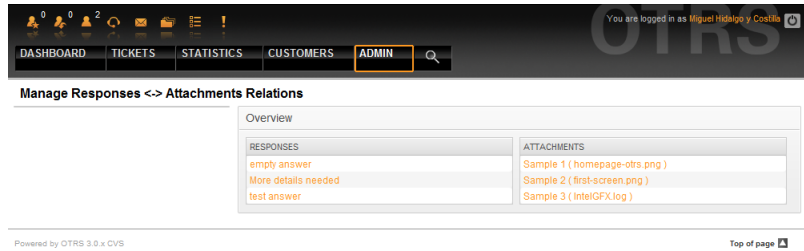


Figure 5.26. Linking Attachments to Responses.

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

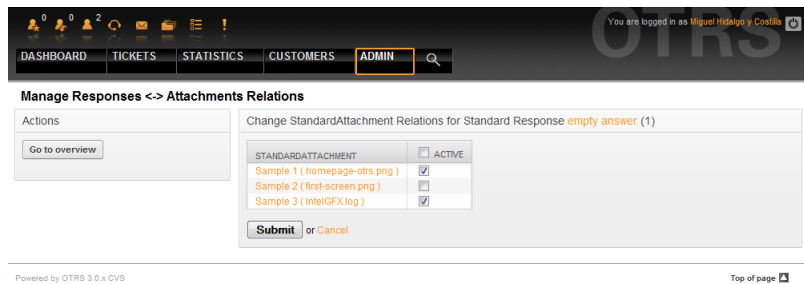


Figure 5.27. Change Attachment relations for a Response.

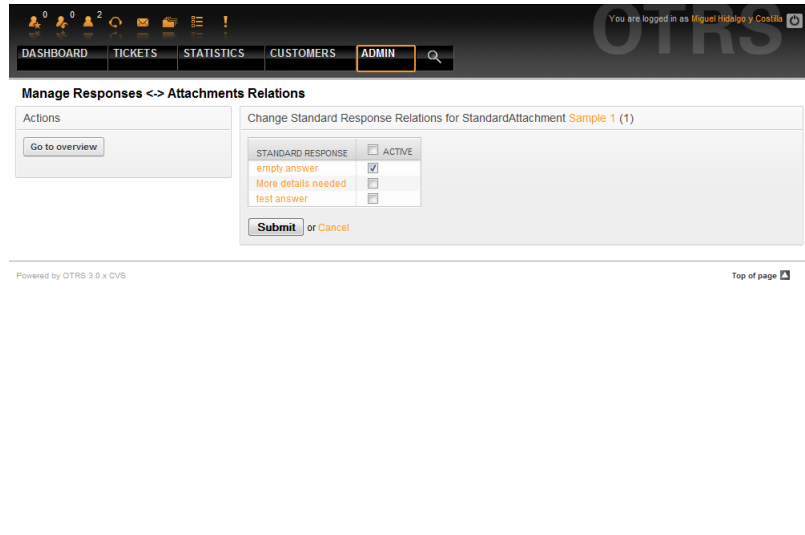


Figure 5.28. Change Response relations for an Attachment.

Responses

To speed up the answering of tickets and to standardize the look of answers, you can define responses in OTRS. A response can be linked to one or more queues and vice versa. In order to be able to use a response quickly, the different responses are displayed below every ticket in the QueueView or in "My Queues".

On a fresh OTRS installation, the "empty answer" response is defined for every queue. Clicking the "Responses" link on the Admin page brings you to the Responses management page (see Figure 5.29 below).

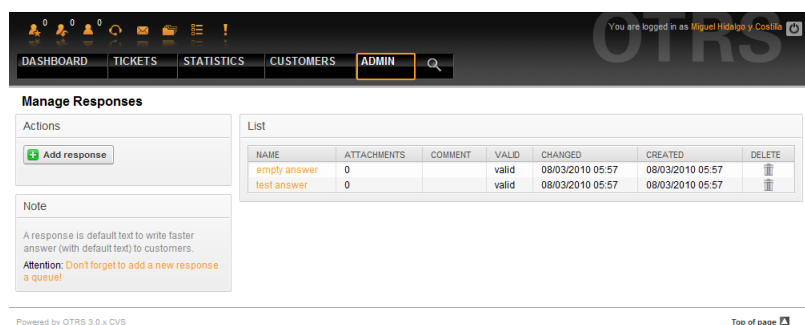


Figure 5.29. Responses management.

To create a new response, click on the "Add response" button, provide the required data and submit it (see Figure 5.30 below).

The screenshot shows the OTRS Admin interface. At the top, there's a navigation bar with tabs: DASHBOARD, TICKETS, STATISTICS, CUSTOMERS, and ADMIN (highlighted). Below the navigation bar, the 'Manage Responses' section is active. On the left, there's a 'Note' section with a warning: 'Attention: Don't forget to add a new response a queue!'. The main area is the 'Add Response' form. It has a 'Name' field with the value 'More details needed'. Below it is a 'Response' text area with a rich text editor. The text in the editor is: 'Hello <OTRS_CUSTOMER_DATA_UserFirstname>, We haven't solved your issue, due to the lack of information previously provided. We need to know the following things: Greetings, <OTRS_OWNER_UserFirstname>'. At the bottom left, there's a 'Powered by OTRS 3.0.x CVS' footer.

Figure 5.30. Adding a response.

To add/remove responses to one or more queues, click on the "Responses <-> Queues" link on the Admin page (see Figure 5.31 below). You can also use filters to get information on a specific entity.

The screenshot shows the OTRS Admin interface. At the top, there's a navigation bar with tabs: DASHBOARD, TICKETS, STATISTICS, CUSTOMERS, and ADMIN (highlighted). Below the navigation bar, the 'Manage Response-Queue Relations' section is active. On the left, there are two filter sections: 'Filter for Responses' and 'Filter for Queues'. The main area is the 'Overview' table. The table has two columns: 'RESPONSES' and 'QUEUES'. The 'RESPONSES' column lists: 'empty answer', 'More details needed', and 'test answer'. The 'QUEUES' column lists: 'Junk', 'Misc', 'Postmaster', 'Raw', and 'Support'. At the bottom left, there's a 'Powered by OTRS 3.0.x CVS' footer. At the bottom right, there's a 'Top of page' link.

Figure 5.31. Response-Queue relations management.

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

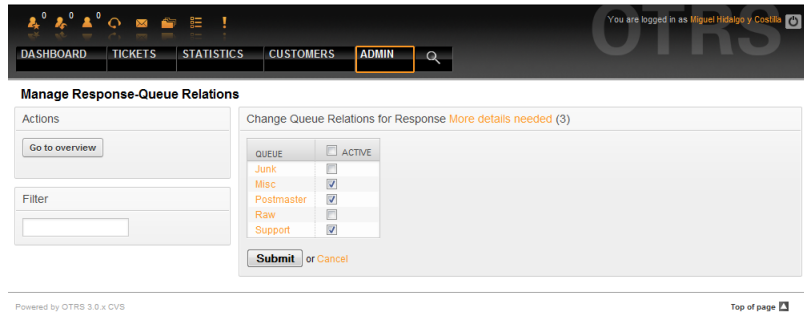


Figure 5.32. Change Queue relations for a Response.

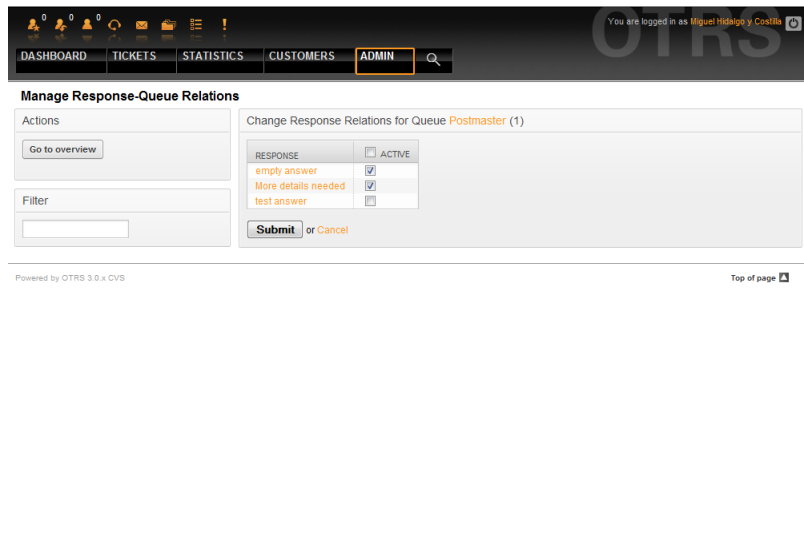


Figure 5.33. Change Response relations for a Queue.

The structure of a response is intuitive. It includes the salutation associated with the queue, then the text of the response, then the quoted ticket text, and finally the signature associated with the queue.

Auto responses

OTRS allows you to send automatic responses to customers on the occurrence of certain events, such as the creation of a ticket in certain queue, reception of a follow-up message on a ticket, closure or rejection of a ticket, etc. To manage such responses, click the link "Auto responses" on the Admin page (see Figure 5.34 below).

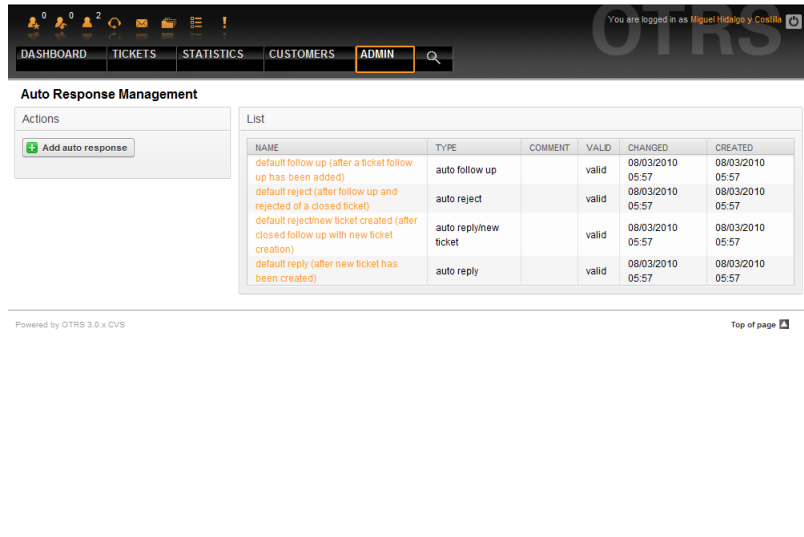


Figure 5.34. Auto Response management.

To create an automatic response, click on the button "Add auto response", provide the needed data and submit it (see Figure 5.35 below).

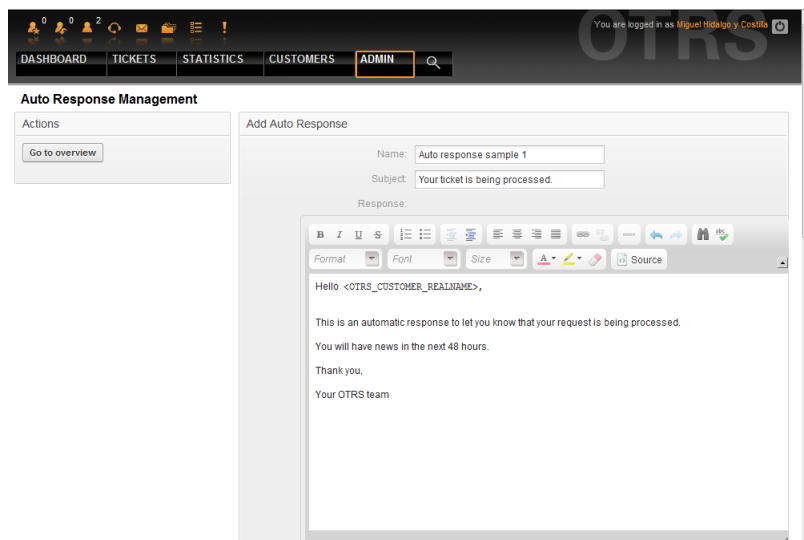


Figure 5.35. Adding an Auto Response.

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 5.35.

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 5.3. 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.
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 5.36 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.

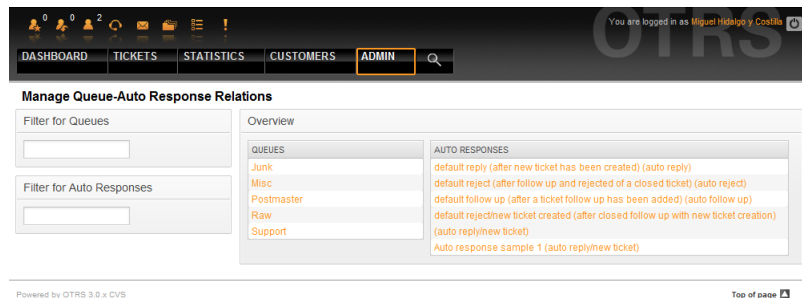


Figure 5.36. Queue-Auto Response relations management.

To define the different auto responses that will be available for a queue, click on the corresponding queue name (see Figure 5.37 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.

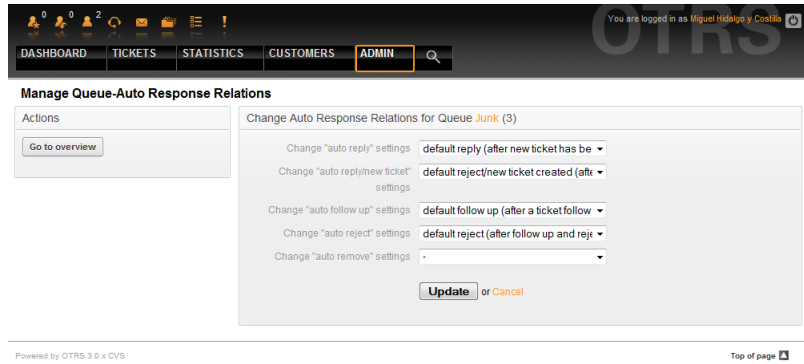


Figure 5.37. Change Auto Response relations for a Queue.

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 5.38 below).

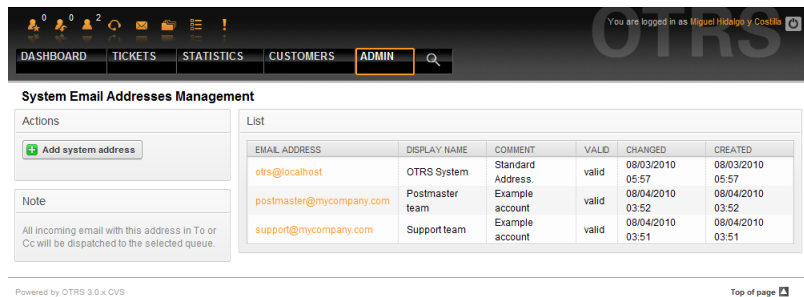


Figure 5.38. System Email Addresses management.

If you create a new mail address (see Figure 5.39 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.

Figure 5.39. 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*.

Notifications

OTRS allows notifications to be sent to agents and customers, 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 5.40 below). You can use filters to list only certain notifications.

LANGUAGE	NOTIFICATION
Arabic (Saudi Arabia)	Agent: AddNote
Arabic (Saudi Arabia)	Agent: Escalation
Arabic (Saudi Arabia)	Agent: EscalationNotifyBefore
Arabic (Saudi Arabia)	Agent: FollowUp
Arabic (Saudi Arabia)	Agent: LockTimeout
Arabic (Saudi Arabia)	Agent: Move
Arabic (Saudi Arabia)	Agent: NewTicket
Arabic (Saudi Arabia)	Agent: OwnerUpdate
Arabic (Saudi Arabia)	Agent: PendingReminder
Arabic (Saudi Arabia)	Agent: ResponsibleUpdate
Bulgarian (Bulgaria)	Agent: AddNote
Bulgarian (Bulgaria)	Agent: Escalation
Bulgarian (Bulgaria)	Agent: EscalationNotifyBefore
Bulgarian (Bulgaria)	Agent: FollowUp
Bulgarian (Bulgaria)	Agent: LockTimeout
Bulgarian (Bulgaria)	Agent: Move
Bulgarian (Bulgaria)	Agent: NewTicket
Bulgarian (Bulgaria)	Agent: OwnerUpdate
Bulgarian (Bulgaria)	Agent: PendingReminder
Bulgarian (Bulgaria)	Agent: ResponsibleUpdate
Català	Agent: AddNote
Català	Agent: Escalation
Català	Agent: EscalationNotifyBefore
Català	Agent: FollowUp
Català	Agent: LockTimeout
Català	Agent: Move
Català	Agent: NewTicket

Figure 5.40. 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 5.41). Please note that there is a notification with the same name for each of the available languages.

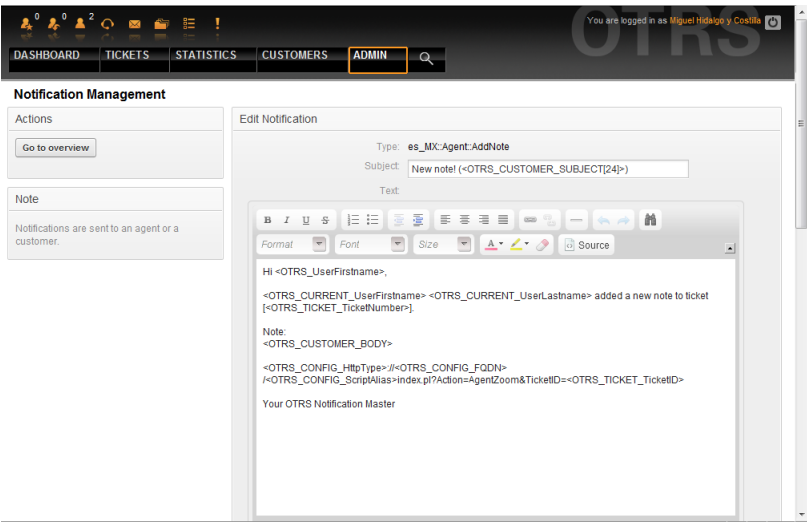


Figure 5.41. Customizing a Notification.

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 5.41.

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 5.42).



Figure 5.42. Event based Notification management.

As shown in Figure 5.42, you can create a new notification by clicking on the Add button (see Figure 5.43).

Figure 5.43. 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 5.43.

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 config parameters in the SysConfig.

The "S/MIME Certificates" link on the Admin page allows you to manage your S/MIME certificates (see Figure 5.44 below). You can add or remove certificates, and also search through the SMIME data.

Figure 5.44. S/MIME management.

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 config 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 5.45 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.

PGP Management

Actions

Search

Add PGP key

Note

In this way you can directly edit the keyring configured in SysConfig.
Description: http://en.wikipedia.org/wiki/Pretty_Good_Privacy

Result

TYPE	IDENTIFIER	BIT	KEY	FINGERPRINT	CREATED	EXPIRES	DELETE
No data found.							

Powered by OTRS 3.0.x CVS

Top of page

Figure 5.45. PGP management.

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 5.46 below).

State Management

Actions

Add state

Note

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

List

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 bl[.]	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 fol[.]	valid	08/03/2010 05:57	08/03/2010 05:57
pending auto close-	pending auto	Ticket is pending fol[.]	valid	08/03/2010 05:57	08/03/2010 05:57
pending reminder	pending reminder	Ticket is pending fol[.]	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

Powered by OTRS 3.0.x CVS

Top of page

Figure 5.46. 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

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 5.47 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 multitude of the parameters. It is also possible to perform a full-text search through all the configuration parameters.

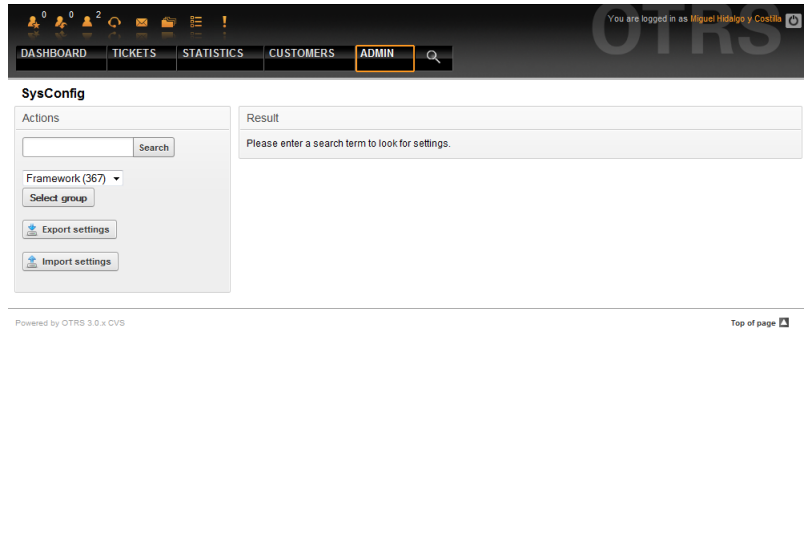


Figure 5.47. The graphical interface for system configuration (SysConfig).

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

Using mail accounts

There are several possibilities to transport new emails into the ticket system. One of them is the `otrs.PostMaster.pl` module 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 5.48 below). OTRS supports the mail protocols: POP3, POP3S, IMAP and IMAPS.

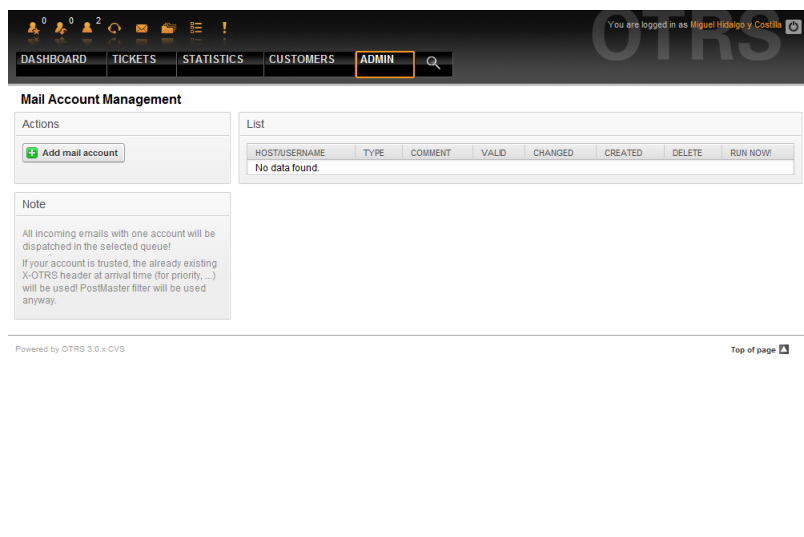


Figure 5.48. Mail account management.

See the section about the PostMaster mail accounts for more details.

Filtering incoming messages

OTRS has the capability to filter incoming messages, as reflected by incoming messages being sorted automatically into queues, or spam mails being moved into a specific queue. It is irrelevant whether `PostMaster.pl` or mail accounts are used to get messages into the ticket system. Filter rules can be created through the link "PostMaster Filter" on the Admin page (see Figure 5.49 below).

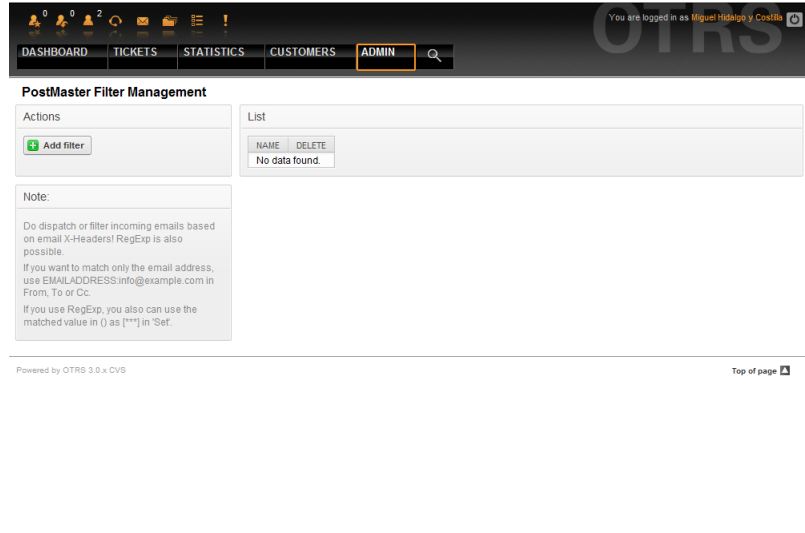


Figure 5.49. PostMaster filter management.

A filter consists of one or more criteria that must match 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 or strings in the body, even regular expressions are allowed. All actions for a filter rule are triggered by X-OTRS headers, which are inserted if the filter criteria match. The ticket system evaluates the inserted X-OTRS headers and executes the specific actions. X-OTRS headers can be used to sort an incoming message into a specific queue, change the priority of the message or ignore the message and not deliver it to the system. The Table 5-4 lists the different X-OTRS headers and their meaning.

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

Table 5.4. 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.
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

Name	Possible values	Description
		will completely be ignored and never delivered to the system.
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).
X-OTRS-Type:	default (depends on your setup)	Sets the type of a ticket (if Ticket::Type support is active).
X-OTRS-Service:	(depends on your setup)	Sets the service of a ticket (if Ticket::Service support is active).
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-ArticleKey(1 2 3):	Additional info key for the article.	Saves an additional info key for this article.
X-OTRS-ArticleValue(1 2 3):	Additional info value for the article.	Saves an additional info value for the article.
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-TicketKey(1 2 ... 8):	Additional info key for the ticket.	Saves an additional info key for the ticket.
X-OTRS-TicketValue(1 2 ... 8):	Additional info value for the ticket.	Saves an additional info value for the ticket.
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).

A name must be specified 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 5.50 below).

The screenshot shows the OTRS Admin interface. At the top, there's a navigation bar with tabs: DASHBOARD, TICKETS, STATISTICS, CUSTOMERS, and ADMIN (which is highlighted). Below the navigation bar, the 'PostMaster Filter Management' section is active. On the left, there's a 'Note' box with instructions on how to use filters. The main area is titled 'Add PostMaster Filter' and contains the following fields:

- Filtername:** A text input field containing 'My sample filter'.
- Stop after match:** A dropdown menu set to 'No'.
- Filter Condition:** A section with four header-value pairs:
 - Header 1: From (dropdown) Value 1: .*@independence.com
 - Header 2: (dropdown) Value 2: (text input)
 - Header 3: (dropdown) Value 3: (text input)
 - Header 4: (dropdown) Value 4: (text input)
- Set Email Headers:** A section with four header-value pairs:
 - Header 1: X-OTRS-Queue (dropdown) Value 1: Special queue
 - Header 2: (dropdown) Value 2: (text input)
 - Header 3: (dropdown) Value 3: (text input)
 - Header 4: (dropdown) Value 4: (text input)

Figure 5.50. Add a PostMaster filter.

Example 5.1. Sort spam mails into a specific queue

A useful filter rule could be to let OTRS automatically move mails marked for spam with 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 get directed 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 into the system.

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

Executing automated jobs with the GenericAgent

The GenericAgent is a tool to execute tasks automatically. In its absence such tasks would need to be done by a human person, a real agent. 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 5.51 below). A table with currently automated jobs is displayed which can be edited to switch to executing jobs manually, or removing them.

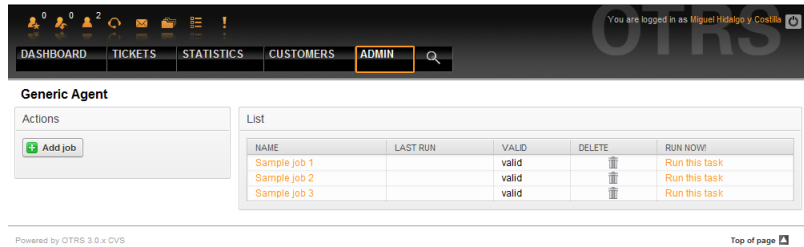


Figure 5.51. Job list for the GenericAgent.

Click the "Add job" button to create a new job. You first need to supply a name for the job, as also the times when the job should be executed. Different criteria to select the tickets to work on and the new properties of those tickets can also be set (see Figure 5.52 below).

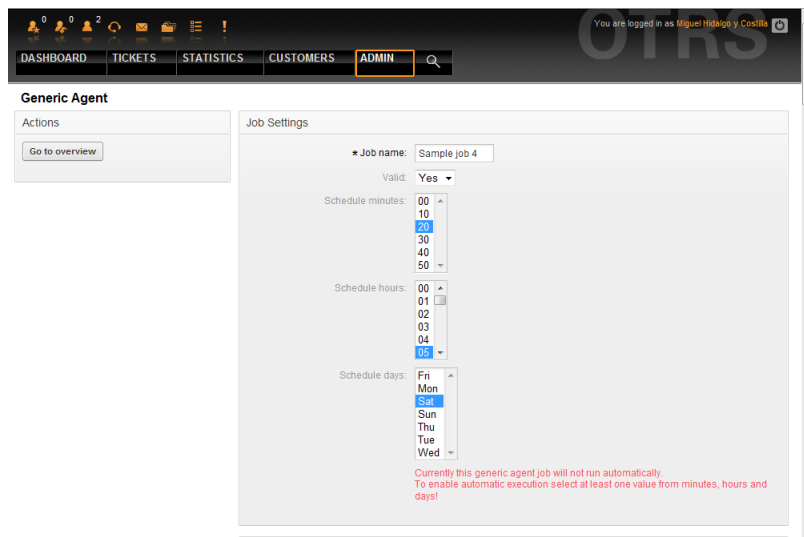


Figure 5.52. Creating a job for the GenericAgent.

On completing the job creation, all affected tickets by the job are listed. This list helps you verify that the job has the expected behavior. No changes are made to these tickets yet. The job will actually be activated only when it is saved into the job list.

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 5.53 below).

Figure 5.53. 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.

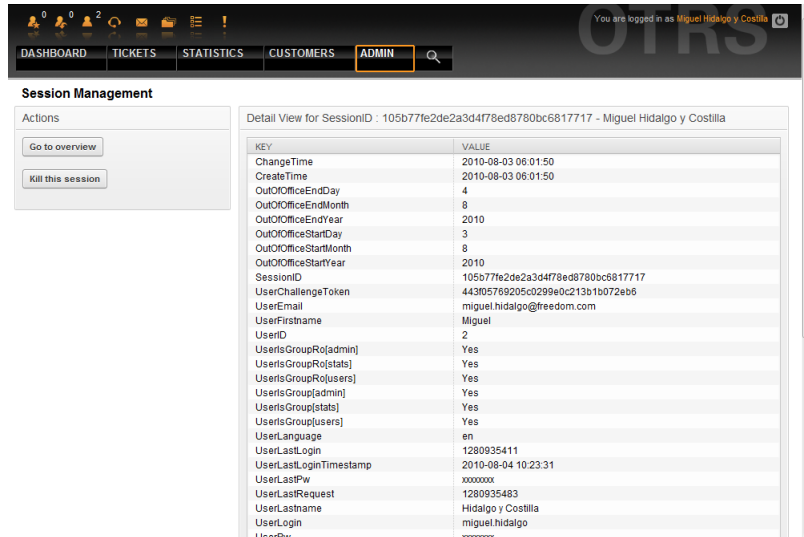
Session management

You can see all logged in users and their session details by clicking the "Session Management" link in the admin area (see Figure 5.54 below).

SESSION	TYPE	USER	KILL
105b7762de2a3d4779ed9790bc5817717	Agent	Miguel Hidalgo y Costilla	Kill this session
10848c1d962d41efb5e9de44095d90a7	Customer	Leona Vicario	Kill this session
10e5cd5fb565e19ac0765f98e995b5941	Customer	Ignacio López Rayón	Kill this session

Figure 5.54. Session management.

Some statistics about all active sessions are displayed, e.g. how many agents and customer users are logged in, 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'd like to bring the system down. Detailed information for every session is available, too (see Figure 5.55 below).



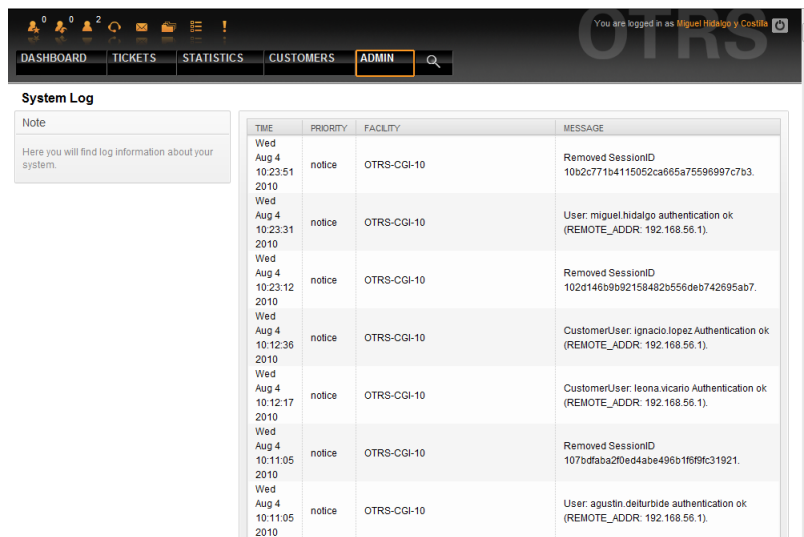
The screenshot shows the OTRS ADMIN interface. The top navigation bar includes links for DASHBOARD, TICKETS, STATISTICS, CUSTOMERS, and ADMIN (which is highlighted). Below the navigation bar, the 'Session Management' section is active. On the left, there are two buttons: 'Go to overview' and 'Kill this session'. The main area displays a 'Detail View for SessionID : 105b77fe2de2a3d4f78ed8780bc6817717 - Miguel Hidalgo y Costilla'. This view contains a table with two columns: 'KEY' and 'VALUE'.

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	105b77fe2de2a3d4f78ed8780bc6817717
UserChallengeToken	44305769205c0299e0c213b15072eb6
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	xxxxxxxx
UserLastRequest	1280935483
UserLastname	Hidalgo y Costilla
UserLogin	miguel.hidalgo
UserPw	xxxxxxxx

Figure 5.55. Session details.

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 5.56 below).



The screenshot shows the OTRS ADMIN interface with the 'System Log' section active. On the left, there is a 'Note' box stating: 'Here you will find log information about your system.' The main area displays a table with four columns: 'TIME', 'PRIORITY', 'FACILITY', and 'MESSAGE'.

TIME	PRIORITY	FACILITY	MESSAGE
Wed Aug 4 10:23:51 2010	notice	OTRS-CGI-10	Removed SessionID 10b2c771b4115052ca865a75596997c7b3.
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 102d14609b92158482b556deb742695ab7.
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 107bdfaba20ed4ab496b1f69fc31921.
Wed Aug 4 10:11:05 2010	notice	OTRS-CGI-10	User: agustin.delturbide authentication ok (REMOTE_ADDR: 192.168.56.1).

Figure 5.56. 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 and opening the file `[install_dir]otrs\var\log\otrs.log`.

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 5.57 below). It is not possible to change the content of the tables, only select queries are allowed.

Figure 5.57. SQL Box.

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 5.58 below). See the Additional applications section for a discussion on the extensions that are available from the OTRS repositories.

NAME	VERSION	VENDOR	DESCRIPTION	ACTION
iPhoneHandle	0.9.4	OTRS AG	The iPhoneHandle Package.	Install

Figure 5.58. 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 locally installed. Just click Upgrade and it will install the upgrade on your system.

In some cases, such as when your OTRS system is not connected to the Internet, you can also install packages you have downloaded to a local disk. Click the *Browse* button on the Actions side bar, and select the .opm file on your disk. Click *Open* and then *Install Package*. After installation 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.

Chapter 6. System Configuration

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.

The file `Kernel/Config/Defaults.pm` contains the parameters of the central OTRS framework. It defines all basic system settings such as the mail configuration, database connection, default charset and standard language. The file `Kernel/Config/Files/Ticket.pm` contains all configuration parameters for the trouble ticket system.

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 two files `Kernel/Config/Files/ZZZAAuto.pm` and `Kernel/Config/Files/ZZZAuto.pm` will be evaluated. Both files are used by the graphical interface for system configuration 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.

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 6.1 below).

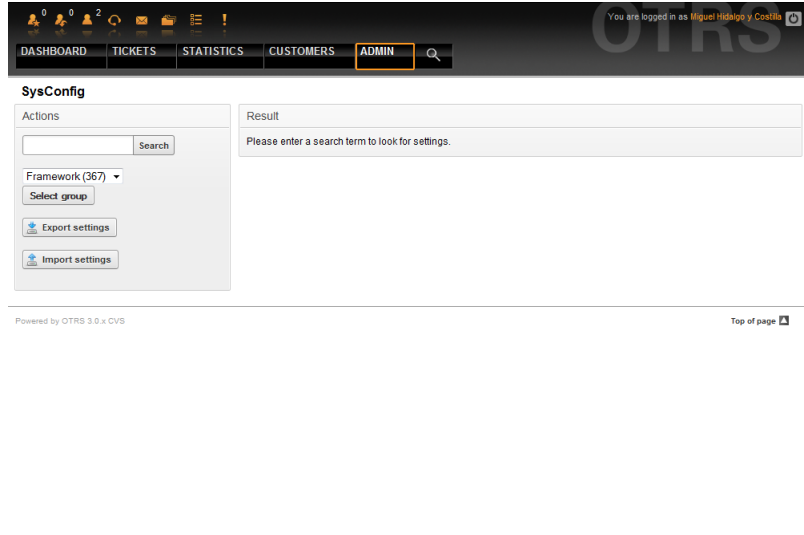


Figure 6.1. The graphical interface for system configuration.

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`.

Chapter 7. Sending/Receiving emails

Sending emails

Via Sendmail (default)

OTRS can send out emails via Sendmail [<http://www.sendmail.org/>], Postfix [<http://www.postfix.org/>], Qmail [<http://www.qmail.org>] or Exim [<http://www.exim.org>]). 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)

Via SMTP server or smarthost

OTRS can send emails via SMTP (Simple Mail Transfer Protocol / RFC 821 [<http://www.ietf.org/rfc/rfc821.txt>]) 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.

Receiving emails

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 7.1 below), then it's 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. At the top, there's a navigation bar with 'DASHBOARD', 'TICKETS', 'STATISTICS', 'CUSTOMERS', and 'ADMIN'. The 'ADMIN' tab is selected. Below the navigation bar, there's a 'Mail Account Management' section. On the left, there's a 'Note' box stating: 'All incoming emails with one account will be dispatched in the selected queue! If your account is trusted, the already existing X-OTRS header at arrival time (for priority, ...) will be used! PostMaster filter will be used anyway.' The main area is titled 'Add Mail Account' and contains a form with the following fields: 'Type' (dropdown menu set to 'POP3'), 'Username' (text input 'miguel.hidalgo'), 'Password' (password input field), 'Host' (text input 'mail.independencia.com'), 'Trusted' (dropdown menu set to 'Yes'), 'Dispatching' (dropdown menu set to 'Dispatching by email To: field'), 'Queue' (dropdown menu set to 'Postmaster'), 'Valid' (dropdown menu set to 'valid'), and 'Comment' (text input 'Example of mail account'). At the bottom of the form are 'Submit' and 'Cancel' buttons. The footer of the page says 'Powered by OTRS 3.0.x CVS' and 'Top of page'.

Figure 7.1. 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.PostMasterMailbox.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.

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 Script 7.1.

```
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 7.1. 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* [<http://www.procmail.org/>].

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 7.2.

```
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 7.2. 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.

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 [<http://fetchmail.berlios.de/>].

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 7.1. .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.

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 7.2. 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 7.3. 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',
    },
};
```

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

Chapter 8. Time related functions

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.

Business Hours

Set up the working hours for your system in SysConfig Framework > Core::Time::TimeWorkingHours, 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 ... 18 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.

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.

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.

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.

Chapter 9. Ticket Responsibility & Ticket Watching

From OTRS 2.1 on, it is possible to assign a person as being responsible for a ticket, additionally 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.

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 9.1 below).

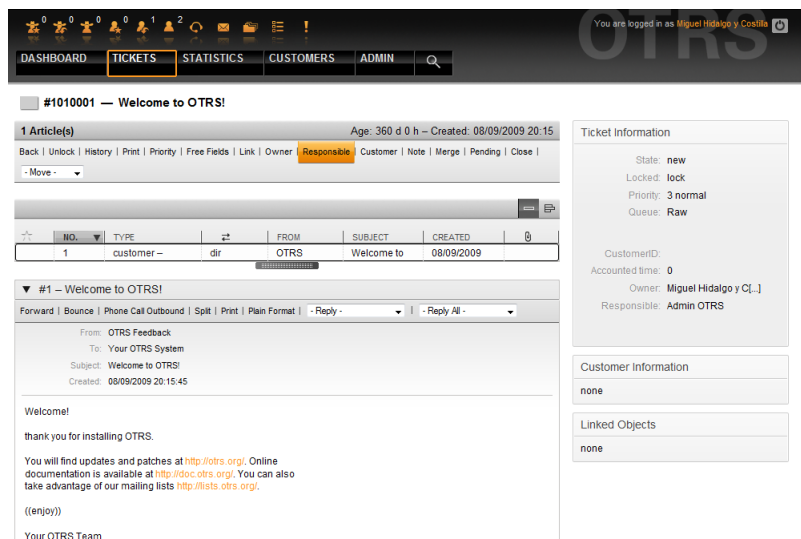


Figure 9.1. Changing the Responsibility of a ticket in its zoomed view.

After clicking on "Responsible", a pop-up dialog to change the responsibility of that ticket will open (see Figure 9.2 below). This dialog can also be used to send a message to the new responsible agent.

Ticket Responsibility & Ticket Watching

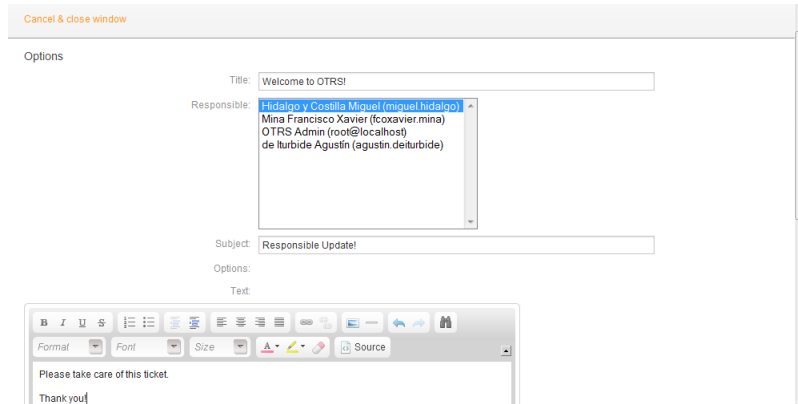


Figure 9.2. Pop-up dialog to change a ticket's responsibility.

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.

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 9.3 below).

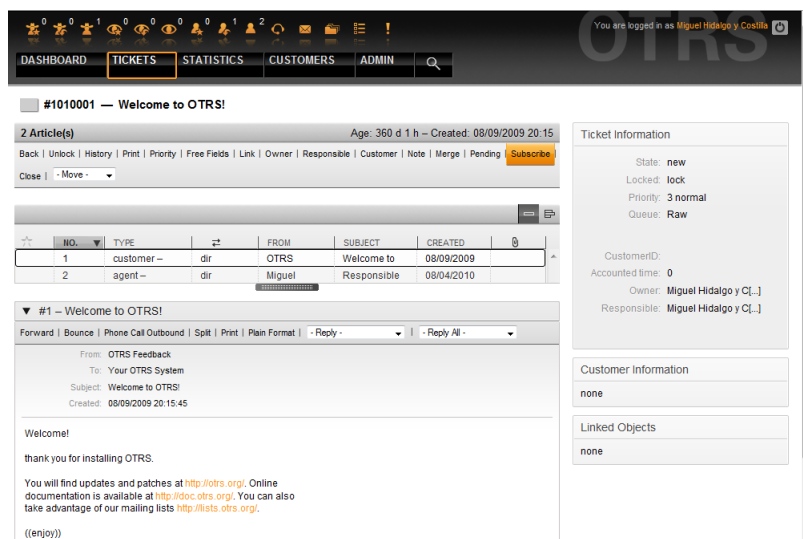


Figure 9.3. Subscribing to watching a ticket in its zoomed view.

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 9.4 below).

Ticket Responsibility & Ticket Watching

The screenshot shows the OTRS web interface. At the top, there's a navigation bar with 'DASHBOARD', 'TICKETS', 'STATISTICS', 'CUSTOMERS', and 'ADMIN'. The 'TICKETS' tab is active. Below the navigation bar, the user is logged in as 'Miguel Hidalgo y Costilla'. The main content area displays a ticket titled '#1010001 - Welcome to OTRS!'. The ticket details show it was created on 08/09/2009 at 20:15. A table lists the ticket's history, showing two entries: one from a customer and one from an agent. The ticket is currently assigned to 'Miguel Hidalgo y Costilla'. On the right side, there's a 'Ticket Information' panel showing the state as 'new', locked as 'lock', priority as '3 normal', and queue as 'Raw'. Below this, the 'Customer Information' panel shows the customer ID as '0' and the owner as 'Miguel Hidalgo y Costilla'. The 'Linked Objects' panel is empty. At the bottom of the ticket view, there's an 'Unsubscribe' button.

Figure 9.4. 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 9.5 below), as soon as the ticket watcher feature gets activated.

The screenshot shows the 'My Watched Tickets' view in the OTRS interface. The navigation bar is the same as in Figure 9.4. The main content area displays a table of watched tickets. The table has columns for 'TICKET#', 'AGE', 'FROM / SUBJECT', 'STATE', 'LOCKED', 'QUEUE', 'OWNER', and 'CUSTOMERID'. There is one ticket listed with the number '1010001', an age of '367 d 6 h', and a subject of 'Welcome to OTRS!'. The ticket is in the 'new' state, locked, and in the 'Raw' queue. The owner is 'Miguel Hidalgo y Costilla'. At the bottom of the page, there's a footer that says 'Powered by OTRS 3.0.x CVS' and a 'Top of page' link.

Figure 9.5. Watched tickets view.

Chapter 10. Customize 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, this generates 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.

Chapter 11. Using external backends

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 configuration parameters of Script 11.1 in your `Kernel/Config.pm` file, 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;
$Self->{'Ticket::Frontend::CustomerInfoQueue'} = 0;
```

Script 11.1. Kernel/Config.pm configuration parameters.

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.

Database (Default)

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

Example 11.1. 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',
```

```
#           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, Script 11.2 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 11.2. 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 Script 11.3.

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

Script 11.3. Adding a room field to the Kernel/Config.pm file.

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

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 11.4 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 11.4. 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 Script 11.5.

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

Script 11.5. 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 11.2. 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;".

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 11.3. 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 Script 11.6.

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

Script 11.6. Adding new fields to the Kernel/Config.pm file.

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 Script 11.7.

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

Script 11.7. 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 11.4. 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.

Use 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 11.5. 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',
        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.

Backends to authenticate Agents and Customers

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

Authentication backends for Agents

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 11.6. Authenticate agents against a DB backend

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

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 11.7. 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 Script 11.8 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.

```
# 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 11.8. Synchronizing the user data from the LDAP directory into the OTRS database.

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 11.8. 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';
```

Radius

The configuration parameters shown in Example 11-9 can be used to authenticate agents against a Radius server.

Example 11.9. 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';
```

Authentication backends for Customers

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 11.10. 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";
```

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 11.11. 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,
};
```

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 11.12. 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-
authorised-for-otrs.html';
$Self->{CustomerPanelLogoutURL} = 'http://host.example.com/thanks-for-
using-otrs.html';
```

Radius

The settings shown in Example 11-13 can be used to authenticate your customers against a Radius server.

Example 11.13. 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';
```

Customize 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.

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 11.9 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 11.9. Displaying a new field in the web interface.

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 Script 11.10.

```
# 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',
        # 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 11.10. Changing the map array.

Customize 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 11.11 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 11.11. Adding a new column to the customer_user table.

Now the new field for the room should be displayed in the customer.pl panel. New customers should have to insert their room number if they register a new account. If you use apache and use mod_perl for OTRS, you should restart the web server to activate the changes.

Chapter 12. States

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'.

New

Tickets are usually in this state when created from incoming e-mails.

Open

This is the default state for tickets assigned to queues and agents.

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.

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.

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.

Merged

This is the state for tickets that have been merged with other tickets.

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.

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.

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 Script 12.1 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 12.1. 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 Script 12.2.

```
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 12.2. 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:Ticket::DefaultNextMoveStateType - to define the default next state after 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.

Chapter 13. Modifying 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.

Chapter 14. 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://doc.otrs.org>, especially in the chapter on *templates* [<http://doc.otrs.org/developer/3.0/en/html/hacking.html#TemplatingMechanism>].

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.

Chapter 15. 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" [<http://doc.otrs.org/developer/3.0/en/html/contributing.html#translate>] chapter from the developer manual on <http://doc.otrs.org>.

Chapter 16. PGP

OTRS has the capability to sign or encrypt outgoing messages with PGP. Further, 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 Script 16.1 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:
```



```
uid                                Ticket System (Private pgp key for ticket
system with addre
ss support@example.com) <support@example.com>
sub 2048g/52B97069 2006-02-03

linux:~$
```

Script 16.1. Configuring GnuPG.

As shown in Script 16.1, the default settings can be applied for most of the required parameters. Only the values for the key owner have to be entered correctly, with a proper password specified for the key.

3. Now OTRS has to be made ready to use PGP. From the Admin console, open the SysConfig interface and search for "PGP". Select the sub group Crypt::PGP from the search results.

In the screen for the PGP settings, PGP should be activated for OTRS (first option). Also, the path to the gpg program should be set and checked.

The next config setting (PGP::Options) may also require changing. Via this config setting, the parameters that are used for every execution of gpg by the 'otrs' user can be specified. In particular, the directory of the config files for GnuPG of the 'otrs' user is important. In the example `/opt/otrs/.gnupg` is used. This directory was created earlier during the PGP configuration.

Via the next config option (PGP::Key::Password) it is possible to specify the pairs of key IDs and their passwords for own private keys. Because communication partners from outside write to the ticket system with their messages encrypted with your public key, OTRS can decrypt these messages with the ID/passwords specified here.

How to get the id of your own private key? The ID of your own private key is already shown during the key generation (see step 1 from above). It is also possible to get the ID if the command specified in Script 16.2 is executed as user 'otrs':

```
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 pgp key for ticket
system with
address support@example.com) <support@example.com>
sub 2048g/52B97069 2006-02-03

linux:~$
```

Script 16.2. 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.

Chapter 17. 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, following which the procedures 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 17.1 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 17.1. Configuring S/MIME.

Script 17.1 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 17.2 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 17.2. Establishing a Certification Authority for SSL.

2. Generate a certificate request (see Script 17.3 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 17.3. 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 17.4 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 17.4. Signing of the certificate request.

4. Generate your own certificate, and all data going with it, using the signed certificate request (see Script 17.5 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 17.5. 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.

Chapter 18. Access Control Lists (ACLs)

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, rudimentary 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. Some ACL examples are listed below (Example 18-1, 18-2 and 18-3):

Example 18.1. ACL allowing movement into a queue of only those tickets with ticket priority 5.

```
# ticket acl
$Self->{TicketAcl}->{'ACL-Name-2'} = {
    # 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 18.2. ACL disabling the closing of tickets in the raw queue, and hiding the close button.

```
$Self->{TicketAcl}->{'ACL-Name-1'} = {
    # 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,
        AgentTicketPhoneOutbound   => 1,
        AgentTicketPrint           => 1,
        AgentTicketPriority         => 1,
        AgentTicketResponsible     => 1,
        AgentTicketWatcher         => 1,
        AgentTicketZoom            => 1,
        AgentLinkObject            => 1,
    },
},
};

```

Example 18.3. ACL removing the status for all agents, only providing it for a group.

```

$Self->{TicketAcl}->{'ACL-Name-5'} = {
    # match properties
    Properties => {
        # current ticket match properties (match always)
    },
    # return possible options
    PossibleNot => {
        # possible ticket options
        Ticket => {
            State => ['closed successful'],
        },
    },
};

```

Example 18.4. ACL only showing Hardware services for tickets that are created in queues that start with "HW".

```

$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)'],
    },
},
};

```

In Script 18.1 there is a list of all parameters which can be used for ACLs.

```

# ticket acl
$Self->{TicketAcl}->{'ACL-Name-Test'} = {
    # match properties
    Properties => {
        # current action match properties
        Frontend => {
            Action => ['AgentTicketPhone', 'AgentTicketEmail'],
        },
        # current user match properties
        User => {
            Group_rw => [
                'hotline',
            ],
        },
        # current user match properties
        Ticket => {
            Queue => ['Raw'],
            State => ['new', 'open'],
            Priority => ['some priority'],
            Lock => ['lock'],
            CustomerID => ['some id'],
            CustomerUserID => ['some id'],
            TicketFreeKey1 => ['some key'],
            TicketFreeKey2 => ['some key'],
            # ...
            TicketFreeKey8 => ['some key'],
            TicketFreeText1 => ['some value'],
            TicketFreeText2 => ['some value'],
            # ...
            TicketFreeText8 => ['some value'],
        }
    },
    # return possible options (white list)
    Possible => {
        # possible ticket options (white list)

```

```

Ticket => {
    Queue => ['Hotline', 'Coordination'],
    State => ['some state'],
    Priority => ['5 very high'],
    TicketFreeKey1 => ['some key'],
    TicketFreeKey2 => ['some key'],
    # ...
    TicketFreeKey8 => ['some key'],
    TicketFreeText1 => ['some value'],
    TicketFreeText2 => ['some value'],
    # ...
    TicketFreeText8 => ['some value'],
},
# possible action options (white list)
Action => {
    AgentTicketBounce          => 1,
    AgentTicketClose           => 1,
    AgentTicketCompose         => 1,
    AgentTicketCustomer        => 1,
    AgentTicketForward         => 1,
    AgentTicketFreeText        => 0,
    AgentTicketHistory         => 0,
    AgentTicketLink            => 1,
    AgentTicketLock            => 1,
    AgentTicketMerge           => 1,
    AgentTicketMove            => 1,
    AgentTicketNote            => 1,
    AgentTicketOwner           => 0,
    AgentTicketPending         => 0,
    AgentTicketPhone           => 1,
    AgentTicketPhoneOutbound   => 1,
    AgentTicketPrint           => 0,
    AgentTicketPriority         => 1,
    AgentTicketResponsible     => 1,
    AgentTicketWatcher         => 1,
    AgentTicketZoom            => 1,
    AgentLinkObject            => 1,
},
},
# remove options (black list)
PossibleNot => {
    # possible ticket options (black list)
    Ticket => {
        Queue => ['Hotline', 'Coordination'],
        State => ['closed', 'removed'],
    },
},
};

```

Script 18.1. Valid parameters for ACLs.

Chapter 19. Stats module

The OTRS stats module holds features to track operational statistics and generate 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.

Handling of the module by the agent

When signed on as an agent, the navigation bar displays the link "Statistics". This has various submenu options, as shown in Figure 19.1.

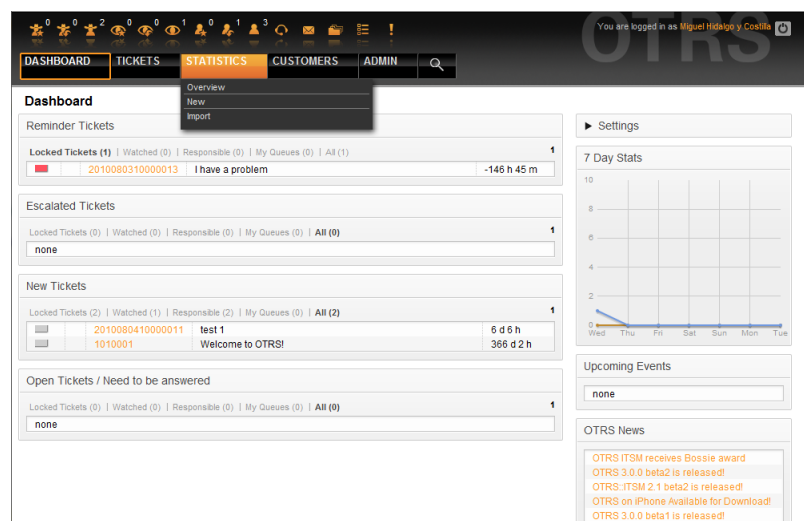


Figure 19.1. Statistics menu options.

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.

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 19.2 below).

STAT#	TITLE	OBJECT	DESCRIPTION
10001	List of the most time-consuming tickets	Ticketlist	List of tickets closed last month which required ti...
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 ag...
10004	List of open tickets, sorted by time left until solution deadline expires	Ticketlist	List of open tickets, sorted by time left until sol...
10005	List of tickets closed, sorted by solution time	Ticketlist	List of tickets closed last month, sorted by solu...
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 re...
10011	New Tickets	TicketAccumulation	Total number of new tickets per day and queue whic...

Figure 19.2. 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.

Generate and view reports

The view user interface provides the stat's configuration settings (see Figure 19.3 below).

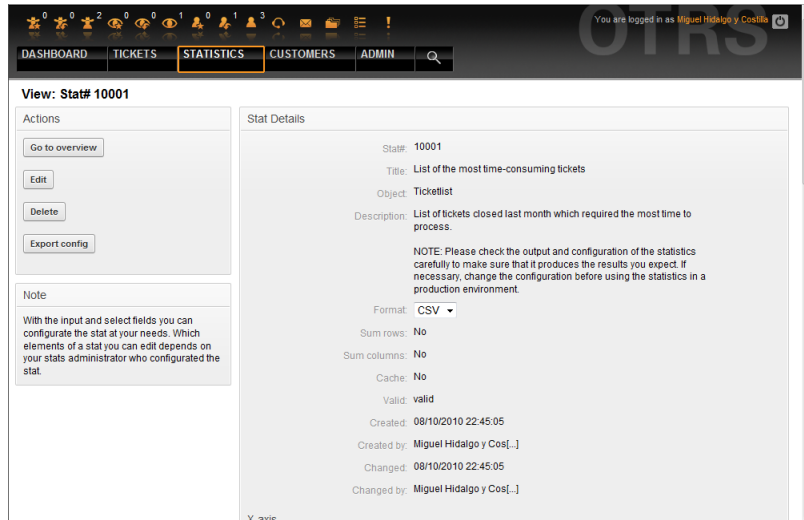


Figure 19.3. Viewing a specific report.

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 19.4 below).

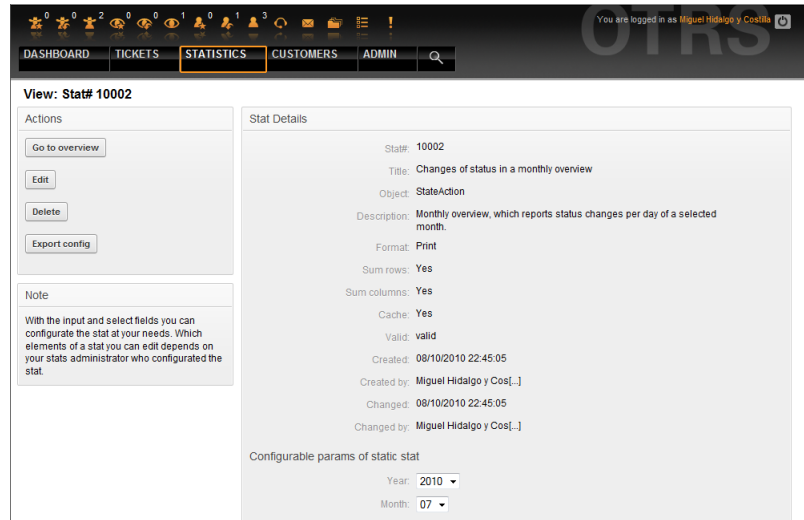


Figure 19.4. Viewing a static report.

- *Dynamic stat view* (see Figure 19.3 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.

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 19.5 below).

Figure 19.5. Editing the general specifications of a report.

In the screen showed in Figure 19.5, 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 19.6).

Figure 19.6. 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 19.7 below). They will later form the individual graphs or the various series within a tabular view.

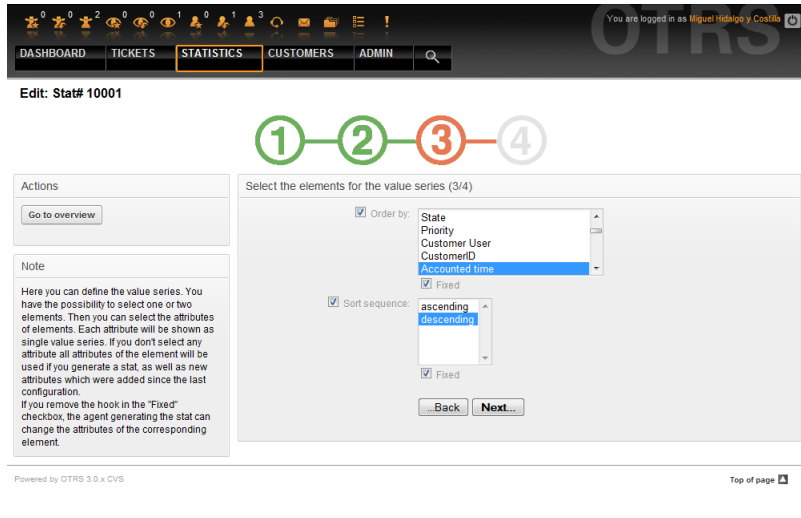


Figure 19.7. Definition of the value series.

If an element is selected, each chosen attribute will correspond to a value series (see the Example 19-1 below).

Example 19.1. 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 19.2. 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 19.8 below). The restrictions serve to limit the results to the selected criteria. In many cases, no restrictions at all may be set up.

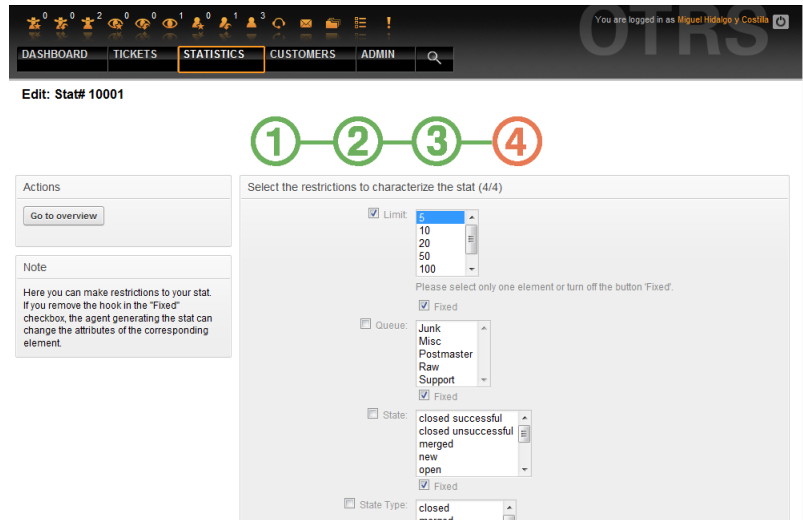


Figure 19.8. Definition of restrictions.

After all the restrictions are set up, the configuration of the report is completed by pressing the "Finish" button.

Import

The Import user interface (see Figure 19.9 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.

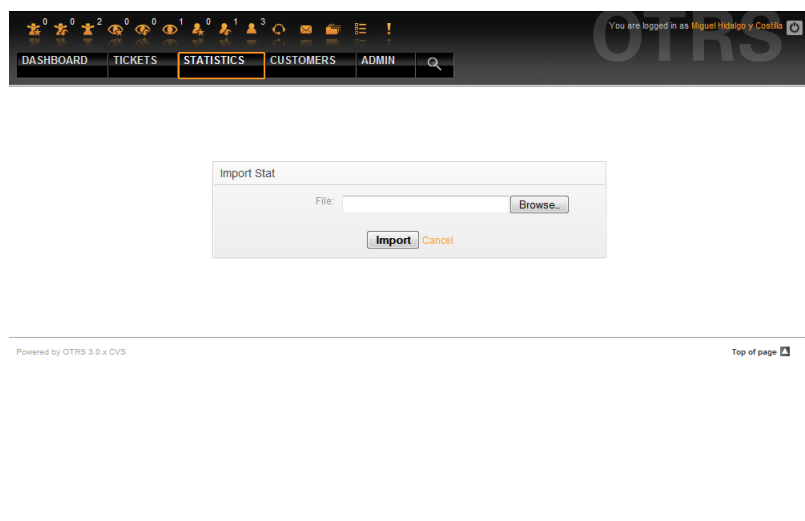


Figure 19.9. The Import user interface.

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.

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.

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.

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.

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`).

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.

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

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.

otrs.GenerateStats.pl

This file is saved in the `bin` directory. It facilitates the generation of report in the command line.

As an example, see the command line call in Script 19.1.

```
bin> perl otrs.GenerateStats.pl -n 10004 -o /output/dir
```

Script 19.1. 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 Script 19.2.

```
bin> perl otrs.GenerateStats.pl --help
```

Script 19.2. Getting information about the `otrs.GenerateStats.pl` file.

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.

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/`.

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;
```

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 the `scripts/test/sample/` directory.

Chapter 20. 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.

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. They can also be structured in groups, and be in different languages.

Chapter 21. Performance Tuning

Presented below is a list of performance enhancing techniques for your OTRS installation, covering configuration, coding, memory use and more.

OTRS

There are several options to improve OTRS performance.

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`.

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. So 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 whole

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 21.1 Switching storage back-ends from database to filesystem.

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 mean 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 is 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.

Database

DB issues vary by the database being used. Study the documentation for your database or check with your database administrator.

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 need to 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 21.2 below).

```
shell$ mysql -u user -p database
mysql$ optimize table ticket;
mysql$ optimize table ticket_history;
mysql$ optimize table article;
```

Script 21.2. Optimizing data base tables.

PostgreSQL

PostgreSQL is best tuned by modifying the postgresql.conf file in your PostgreSQL data directory. For advice on how to do this, see these articles:

- <http://www.revsys.com/writings/postgresql-performance.html> [http://www.revsys.com/writings/postgresql-performance.html]
- <http://varlena.com/GeneralBits/Tidbits/perf.html> [http://varlena.com/GeneralBits/Tidbits/perf.html]
- http://varlena.com/GeneralBits/Tidbits/annotated_conf_e.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.

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.

Pre-established database connections

You can have the database connections pre-established on startup of the web server. This saves time (see README.webserver).

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`).

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`.

Choosing the Right Strategy

If you have a larger installation, say 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>).

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.

Chapter 22. Backing up the system

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

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 22.1 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 22.1. Getting help about the OTRS backup mechanism.

Execute the command specified in Script 22.2 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 22.2. Creating a backup.

All data was stored in the directory `/backup/2010-09-07_14-28/` (see Script 22.3 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 22.3. Checking the backup files.

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 22.4 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 22.4. 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 Script 22.5, 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 22.5. Restoring OTRS data.

Appendix A. Additional Resources

We try to support you with the very latest information about OTRS. We also give you a good way to provide us with your feedback.

Homepage OTRS.org

You can find our project homepage at <http://www.otrs.org/> (see Figure A-1 below).

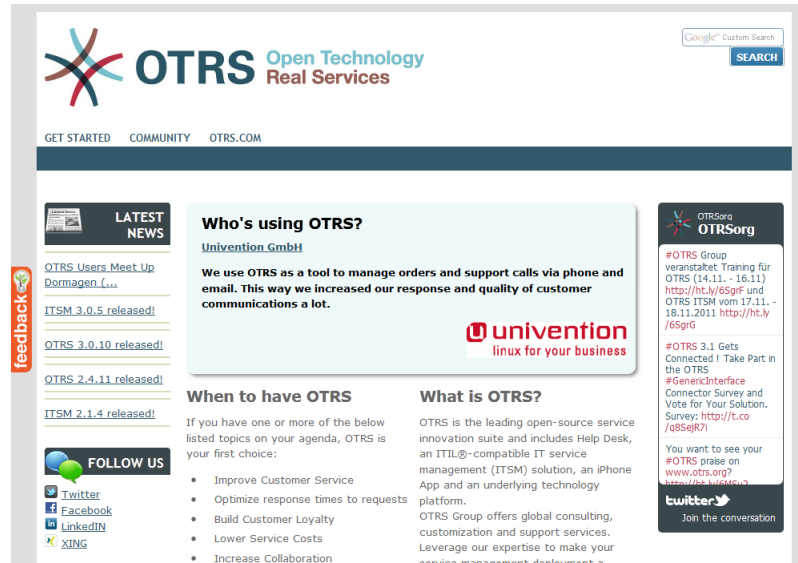


Figure A-1. OTRS Homepage.

Mailing lists

The Table A-1 shows you our different 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 [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 questions on, and support for the product.	http://lists.otrs.org/cgi-bin/listinfo/otrs [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 questions on, and support for, the product.	http://lists.otrs.org/cgi-bin/listinfo/otrs-de [http://lists.otrs.org/cgi-bin/listinfo/otrs-de]

Name	Description	Homepage
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 [http://lists.otrs.org/cgi-bin/listinfo/dev]
doc-de@otrs.org	Low traffic list, in German, with all sorts of questions on the documentation of the product.	http://lists.otrs.org/cgi-bin/listinfo/doc-de [http://lists.otrs.org/cgi-bin/listinfo/doc-de]
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 [http://lists.otrs.org/cgi-bin/listinfo/i18n]
cvcs-log@otrs.org	Very high traffic list of CVS commit notifications.	http://lists.otrs.org/cgi-bin/listinfo/cvs-log [http://lists.otrs.org/cgi-bin/listinfo/cvs-log]

To subscribe to any of this lists, visit the following link: <http://lists.otrs.org/>.

Bug tracking

To submit bugs visit <http://bugs.otrs.org/> (see Figure A-2 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 on 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.

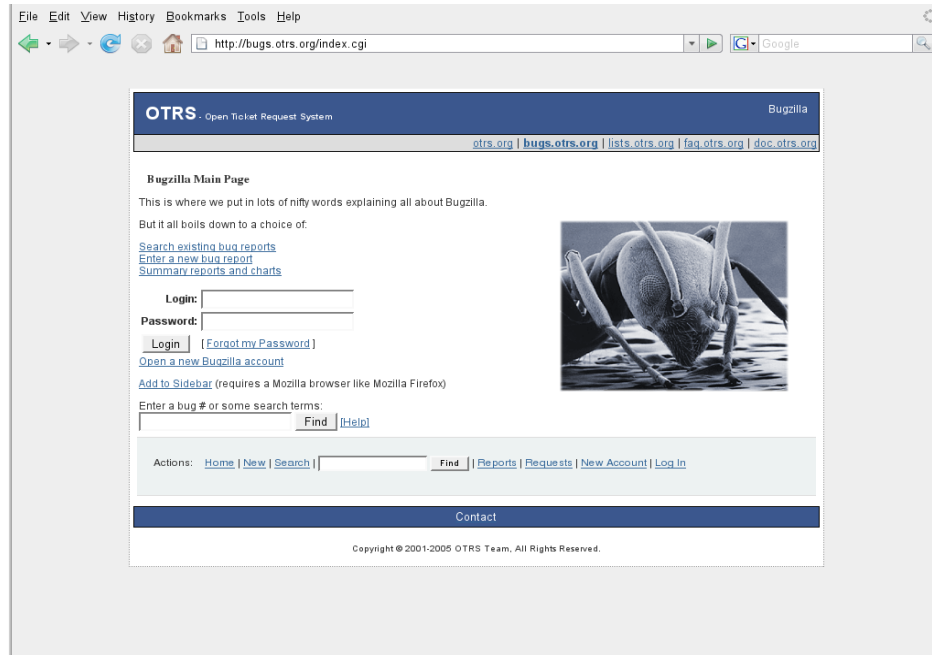


Figure A-2. Bug tracker.

For configuration issues, you should either use the *commercial support*, available from *OTRS.com* [<http://www.otrs.com/en/support/>], or the public mailing lists.

You help us improve the product by reporting bugs. We appreciate your input!

Commercial Support

For services (support, consulting, development, and training) you can contact the company behind OTRS, OTRS AG. They have offices in Germany, USA, Mexico, the Netherlands and other countries. Look at their website for contact information: <http://www.otrs.com/en/corporate-navigation/contact/>

Appendix B. Configuration Options Reference

Framework

Core

SecureMode

Description	Value
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 (to avoid the use of destructive queries, such as DROP DATABASE, and also to steal user passwords).
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SecureMode'} = '0';</code>

Frontend::DebugMode

Description	Value
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>

ConfigLevel

Description	Value
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

Description	Value
	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>

ProductName

Description	Value
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>

SystemID

Description	Value
Description:	Defines the system identifier. Every ticket number and http session string contain 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>

FQDN

Description	Value
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

Description	Value
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'FQDN'} = 'yourhost.example.com';</code>

HttpType

Description	Value
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 it 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 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>

ScriptAlias

Description	Value
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_CONFIG_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>

AdminEmail

Description	Value
Description:	Defines the system administrator's email address. It will be displayed in the error screens of the application.

Description	Value
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'AdminEmail'} = 'admin@example.com';</code>

Organization

Description	Value
Description:	If configured, all emails sent by the application will contain an X-Header with this organization or company name.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Organization'} = 'Example Company';</code>

DefaultCharset

Description	Value
Description:	Sets the default charset for the web interface to use (should represent the charset used to create the database or, in some cases, the database management system being used). "utf-8" is a good choice for environments expecting many charsets. You can specify another charset here (i.e. "iso-8859-1"). Please be sure that you will not be receiving foreign emails, or text, otherwise this could lead to problems.
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'DefaultCharset'} = 'utf-8';</code>

DefaultLanguage

Description	Value
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

Description	Value
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'DefaultLanguage'} = 'en';</code>

DefaultUsedLanguages

Description	Value
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 documentation http://doc.otrs.org/ for more information). Please remember to use the HTML equivalents 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;&#x043 'cs' => 'Czech (&#x010c;esky)', 'ct' => 'Catal&agrave;', 'da' => 'Dansk', 'de' => 'Deutsch', 'el' => 'Greek (&#x0395;&#x03bb;&#x03bb;&#x03b7;&#x03bd;&#x03b9;&#x03ba;&#x03a 'en' => 'English (United States)', 'en_CA' => 'English (Canada)', 'en_GB' => 'English (United Kingdom)', 'es' => 'Espa&ntilde;ol', 'es_MX' => 'Espa&ntilde;ol (M&eacute;xico)', 'et' => 'Eesti', 'fa' => 'Persian (&#x0641;&#x0627;&#x0631;&#x0633;&#x0649;)', 'fi' => 'Suomi', 'fr' => 'Fran&ccedil;ais', 'hi' => 'Hindi', 'hr' => 'Hrvatski', 'hu' => 'Magyar', 'it' => 'Italiano', 'ja' => 'Japanese (&#x65e5;&#x672c;&#x8a9e)', </pre>

Description	Value
	<pre> 'lt' => 'Lietuvi? kalba', 'lv' => 'Latvijas', '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)', 'sr_Cyrl' => 'Serbian Cyrillic (?????)', 'sr_Latn' => 'Serbian Latin (Srpski)', 'sv' => 'Svenska', 'tr' => 'T&uuml;rk&ccedil;e', 'uk' => 'Ukrainian (&#x0423;&#x043a;&#x0440;&#x0430;&#x0457;&#x043d;&#x0441;&#x0444;)', 'vi_VN' => 'Vietnam (Vi&#x0246;t Nam)', 'zh_CN' => 'Chinese (Sim.) (&#x7b80;&#x4f53;&#x4e2d;&#x6587;)', 'zh_TW' => 'Chinese (Tradi.) (&#x6b63;&#x9ad4;&#x4e2d;&#x6587;)' }; </pre>

DefaultTheme

Description	Value
Description:	Defines the default front-end (HTML) theme to be used by the agents and customers. The default themes are Standard and Lite. If you like, you can add your own theme. Please refer the administrator manual located at http://doc.otros.org/ .
Group:	Framework
SubGroup:	Core
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'DefaultTheme'} = 'Standard';</code>

DefaultTheme::HostBased

Description	Value
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

Description	Value
SubGroup:	Core
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'DefaultTheme::HostBased'} = { 'host1\\.example\\.com' => 'SomeTheme1', 'host2\\.example\\.com' => 'SomeTheme2' };</pre>

CheckMXRecord

Description	Value
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:	<pre>\$Self->{'CheckMXRecord'} = '1';</pre>

CheckMXRecord::Nameserver

Description	Value
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:	<pre>\$Self->{'CheckMXRecord::Nameserver'} = 'ns.example.com';</pre>

CheckEmailAddresses

Description	Value
Description:	Makes the application check the syntax of email addresses.
Group:	Framework
SubGroup:	Core
Valid:	1

Description	Value
Required:	1
Config-Setting:	<code>\$Self->{'CheckEmailAddresses'} = '1';</code>

CheckEmailValidAddress

Description	Value
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>

CheckEmailInvalidAddress

Description	Value
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>

CGILogPrefix

Description	Value
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:	

Description	Value
	<code>\$Self->{'CGILogPrefix'} = 'OTRS-CGI';</code>

DemoSystem

Description	Value
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>

SwitchToUser

Description	Value
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>

NotificationSenderName

Description	Value
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>

NotificationSenderEmail

Description	Value
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:	<pre>\$Self->{'NotificationSenderEmail'} = 'otrs@<OTRS_CONFIG_FQDN>';</pre>

System::Customer::Permission

Description	Value
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:	<pre>\$Self->{'System::Customer::Permission'} = ['ro', 'rw'];</pre>

LanguageDebug

Description	Value
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

Description	Value
Required:	0
Config-Setting:	<code>\$Self->{'LanguageDebug'} = '0';</code>

Secure::DisableBanner

Description	Value
Description:	If enabled, the OTRS version tag will be removed from the HTTP headers.
Group:	Framework
SubGroup:	Core
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Secure::DisableBanner'} = '0';</code>

Core::LinkObject

LinkObject::ViewMode

Description	Value
Description:	Determines the way the linked objects are displayed in each zoom mask.
Group:	Framework
SubGroup:	Core::LinkObject
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'LinkObject::ViewMode'} = 'Simple';</code>

LinkObject::Type###Normal

Description	Value
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:	<code>\$Self->{'LinkObject::Type'}->{'Normal'} = {</code>

Description	Value
	<pre>'SourceName' => 'Normal', 'TargetName' => 'Normal' };</pre>

LinkObject::Type###ParentChild

Description	Value
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>

LinkObject::TypeGroup###0001

Description	Value
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>

Core::Log

LogModule

Description	Value
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.

Description	Value
Group:	Framework
SubGroup:	Core::Log
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'LogModule'} = 'Kernel::System::Log::SysLog';</pre>

LogModule::SysLog::Facility

Description	Value
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:	<pre>\$Self->{'LogModule::SysLog::Facility'} = 'user';</pre>

LogModule::SysLog::LogSock

Description	Value
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:	<pre>\$Self->{'LogModule::SysLog::LogSock'} = 'unix';</pre>

LogModule::SysLog::Charset

Description	Value
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

Description	Value
Config-Setting:	<code>\$Self->{'LogModule::SysLog::Charset'} = 'iso-8859-1';</code>

LogModule::LogFile

Description	Value
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>

LogModule::LogFile::Date

Description	Value
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>

Core::MIME-Viewer

MIME-Viewer###application/excel

Description	Value
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>

MIME-Viewer###application/msword

Description	Value
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:	<pre>\$Self->{'MIME-Viewer'}->{'application/msword'} = 'wvWare';</pre>

MIME-Viewer###application/pdf

Description	Value
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:	<pre>\$Self->{'MIME-Viewer'}->{'application/pdf'} = 'pdftohtml -stdout -i';</pre>

MIME-Viewer###text/xml

Description	Value
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:	<pre>\$Self->{'MIME-Viewer'}->{'text/xml'} = '<OTRS_CONFIG_Home>/scripts/tools/xml2html.pl';</pre>

Core::MirrorDB

Core::MirrorDB::DSN

Description	Value
Description:	If you want to use a mirror database for agent ticket fulltext search or to generate stats, specify the DSN to this database.

Description	Value
Group:	Framework
SubGroup:	Core::MirrorDB
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Core::MirrorDB::DSN'} = 'DBI:mysql:database=mirrordb;host=mirrordbhost';</pre>

Core::MirrorDB::User

Description	Value
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:	<pre>\$Self->{'Core::MirrorDB::User'} = 'some_user';</pre>

Core::MirrorDB::Password

Description	Value
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:	<pre>\$Self->{'Core::MirrorDB::Password'} = 'some_password';</pre>

Core::PDF

PDF

Description	Value
Description:	Enables PDF output. The CPAN module PDF::API2 is required, if not installed, PDF output will be disabled.

Description	Value
Group:	Framework
SubGroup:	Core::PDF
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PDF'} = '1';</code>

PDF::LogoFile

Description	Value
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>

PDF::PageSize

Description	Value
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>

PDF::MaxPages

Description	Value
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>

PDF::TTFontFile###Proportional

Description	Value
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>

PDF::TTFontFile###ProportionalBold

Description	Value
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>

PDF::TTFontFile###ProportionalItalic

Description	Value
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>

PDF::TTFontFile###ProportionalBoldItalic

Description	Value
Description:	Defines the path and TTF-File to handle bold italic proportional font in PDF documents.

Description	Value
Group:	Framework
SubGroup:	Core::PDF
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'PDF::TTFontFile'}- >{'ProportionalBoldItalic'} = 'DejaVuSans- BoldOblique.ttf';</pre>

PDF::TTFontFile###Monospaced

Description	Value
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:	<pre>\$Self->{'PDF::TTFontFile'}->{'Monospaced'} = 'DejaVuSansMono.ttf';</pre>

PDF::TTFontFile###MonospacedBold

Description	Value
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:	<pre>\$Self->{'PDF::TTFontFile'}->{'MonospacedBold'} = 'DejaVuSansMono-Bold.ttf';</pre>

PDF::TTFontFile###MonospacedItalic

Description	Value
Description:	Defines the path and TTF-File to handle italic monospaced font in PDF documents.
Group:	Framework
SubGroup:	Core::PDF
Valid:	0

Description	Value
Required:	0
Config-Setting:	<code>\$Self->{'PDF::TTFontFile'}->{'MonospacedItalic'} = 'DejaVuSansMono-Oblique.ttf';</code>

PDF::TTFontFile###MonospacedBoldItalic

Description	Value
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>

Core::Package

Package::FileUpload

Description	Value
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>

Package::RepositoryRoot

Description	Value
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:	

Description	Value
	<pre>\$Self->{'Package::RepositoryRoot'} = ['http://ftp.otrs.org/pub/otrs/misc/packages/ repository.xml', 'http://otrs.org/repository.xml'];</pre>

Package::RepositoryList

Description	Value
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:	<pre>\$Self->{'Package::RepositoryList'} = { 'ftp://ftp.example.com/pub/otrs/misc/packages/' => '[Example] ftp://ftp.example.com/' };</pre>

Package::RepositoryAccessRegExp

Description	Value
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:	<pre>\$Self->{'Package::RepositoryAccessRegExp'} = '127\.\.0\.\.0\.\.1';</pre>

Package::Timeout

Description	Value
Description:	Sets the timeout (in seconds) for package downloads. Overwrites "WebUserAgent::Timeout".
Group:	Framework
SubGroup:	Core::Package
Valid:	1

Description	Value
Required:	1
Config-Setting:	<code>\$Self->{'Package::Timeout'} = '15';</code>

Package::Proxy

Description	Value
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>

Core::PerformanceLog

PerformanceLog

Description	Value
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>

PerformanceLog::File

Description	Value
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>

PerformanceLog::FileMax

Description	Value
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>

Core::SOAP

SOAP::User

Description	Value
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>

SOAP::Password

Description	Value
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>

Core::Sendmail

SendmailModule

Description	Value
Description:	Defines the module to send emails. "Sendmail" directly uses the sendmail binary of your operating system. Any of the "SMTP"

Description	Value
	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:	<pre>\$Self->{'SendmailModule'} = 'Kernel::System::Email::Sendmail';</pre>

SendmailModule::CMD

Description	Value
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:	<pre>\$Self->{'SendmailModule::CMD'} = '/usr/sbin/ sendmail -i -f';</pre>

SendmailModule::Host

Description	Value
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:	<pre>\$Self->{'SendmailModule::Host'} = 'mail.example.com';</pre>

SendmailModule::Port

Description	Value
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

Description	Value
SubGroup:	Core::Sendmail
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'SendmailModule::Port'} = '25';</code>

SendmailModule::AuthUser

Description	Value
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>

SendmailModule::AuthPassword

Description	Value
Description:	If any of the "SMTP" mechanisms was selected as SendmailModule, and authentication to the mail server is needed, a password must be specified.
Group:	Framework
SubGroup:	Core::Sendmail
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'SendmailModule::AuthPassword'} = 'MailserverPassword';</code>

SendmailBcc

Description	Value
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

Description	Value
Required:	0
Config-Setting:	<code>\$Self->{'SendmailBcc'} = '';</code>

SendmailNotificationEnvelopeFrom

Description	Value
Description:	If set, this address is used as envelope from header in outgoing notifications. If no address is specified, the envelope from header is empty.
Group:	Framework
SubGroup:	Core::Sendmail
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'SendmailNotificationEnvelopeFrom'} = '';</code>

SendmailEncodingForce

Description	Value
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>

Core::Session

SessionModule

Description	Value
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:	

Description	Value
	<code>\$Self->{'SessionModule'} = 'Kernel::System::AuthSession::DB';</code>

SessionName

Description	Value
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'} = 'Session';</code>

SessionCheckRemoteIP

Description	Value
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>

SessionDeleteIfNotRemoteID

Description	Value
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>

SessionMaxTime

Description	Value
Description:	Defines the maximal valid time (in seconds) for a session id.

Description	Value
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SessionMaxTime'} = '57600';</code>

SessionMaxIdleTime

Description	Value
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>

SessionDeleteIfTimeToOld

Description	Value
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>

SessionUseCookie

Description	Value
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:	

Description	Value
	<code>\$Self->{'SessionUseCookie'} = '1';</code>

SessionUseCookieAfterBrowserClose

Description	Value
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>

SessionCSRFProtection

Description	Value
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>

SessionDir

Description	Value
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>

SessionTable

Description	Value
Description:	If "DB" was selected for SessionModule, a table in database where session data will be stored must be specified.

Description	Value
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SessionTable'} = 'sessions';</code>

SessionTableID

Description	Value
Description:	If "DB" was selected for SessionModule, a column for the identifiers in session table must be specified.
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SessionTableID'} = 'session_id';</code>

SessionTableValue

Description	Value
Description:	If "DB" was selected for SessionModule, a column for the values in session table must be specified.
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SessionTableValue'} = 'session_value';</code>

SessionSaveLoginPasswd

Description	Value
Description:	Saves the login and password on the session table in the database, if "DB" was selected for SessionModule.
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	

Description	Value
	<code>\$Self->{'SessionSaveLoginPasswd'} = '0';</code>

CustomerPanelSessionName

Description	Value
Description:	Defines the name of the key for customer sessions.
Group:	Framework
SubGroup:	Core::Session
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerPanelSessionName'} = 'CSID';</code>

Core::SpellChecker

SpellChecker

Description	Value
Description:	Enables spell checker support.
Group:	Framework
SubGroup:	Core::SpellChecker
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SpellChecker'} = '0';</code>

SpellCheckerBin

Description	Value
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>

SpellCheckerDictDefault

Description	Value
Description:	Defines the default spell checker dictionary.

Description	Value
Group:	Framework
SubGroup:	Core::SpellChecker
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'SpellCheckerDictDefault'} = 'english';</code>

SpellCheckerIgnore

Description	Value
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>

Core::Stats

Stats::StatsHook

Description	Value
Description:	Sets the stats hook.
Group:	Framework
SubGroup:	Core::Stats
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::StatsHook'} = 'Stat#';</code>

Stats::StatsStartNumber

Description	Value
Description:	Start number for statistics counting. Every new stat increments this number.

Description	Value
Group:	Framework
SubGroup:	Core::Stats
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::StatsStartNumber'} = '10000';</code>

Stats::MaxXaxisAttributes

Description	Value
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>

Core::Stats::Graph

Stats::Graph::t_margin

Description	Value
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>

Stats::Graph::l_margin

Description	Value
Description:	Specifies the left margin of the chart.
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	

Description	Value
	<code>\$Self->{'Stats::Graph::l_margin'} = '10';</code>

Stats::Graph::b_margin

Description	Value
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>

Stats::Graph::r_margin

Description	Value
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>

Stats::Graph::bgclr

Description	Value
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>

Stats::Graph::transparent

Description	Value
Description:	Makes the picture transparent.
Group:	Framework
SubGroup:	Core::Stats::Graph
Valid:	1

Description	Value
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::transparent'} = '0';</code>

Stats::Graph::fgclr

Description	Value
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>

Stats::Graph::boxclr

Description	Value
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>

Stats::Graph::accentclr

Description	Value
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>

Stats::Graph::legendclr

Description	Value
Description:	Specifies the text color of the legend.
Group:	Framework

Description	Value
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::legendclr'} = 'black';</code>

Stats::Graph::textclr

Description	Value
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>

Stats::Graph::dclrs

Description	Value
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', 'black', 'purple', 'orange', 'pink', 'marine', 'cyan', 'lgray', 'lblue', 'lyellow', 'lgreen', 'lred', 'lpurple', 'lorange', 'lbrown'</code>

Description	Value
	<code>];</code>

Stats::Graph::line_width

Description	Value
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>

Stats::Graph::legend_placement

Description	Value
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>

Stats::Graph::legend_spacing

Description	Value
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>

Stats::Graph::legend_marker_width

Description	Value
Description:	Defines the width of the legend.
Group:	Framework

Description	Value
SubGroup:	Core::Stats::Graph
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::Graph::legend_marker_width'} = '12';</code>

Stats::Graph::legend_marker_height

Description	Value
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>

Core::Time

TimeInputFormat

Description	Value
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>

TimeShowAlwaysLong

Description	Value
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>

TimeZone

Description	Value
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>

TimeZoneUser

Description	Value
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>

TimeZoneUserBrowserAutoOffset

Description	Value
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>

CalendarWeekDayStart

Description	Value
Description:	Define the start day of the week for the date picker.
Group:	Framework
SubGroup:	Core::Time
Valid:	1

Description	Value
Required:	1
Config-Setting:	<code>\$Self->{'CalendarWeekDayStart'} = '1';</code>

TimeVacationDays

Description	Value
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>

TimeVacationDaysOneTime

Description	Value
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>

TimeWorkingHours

Description	Value
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', </pre>

Description	Value
	<pre> '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']]; </pre>

TimeShowCompleteDescription

Description	Value
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>

Core::Time::Calendar1

TimeZone::Calendar1Name

Description	Value
Description:	Defines the name of the calendar number 1.
Group:	Framework
SubGroup:	Core::Time::Calendar1
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeZone::Calendar1Name'} = 'Calendar Name 1';</pre>

TimeZone::Calendar1

Description	Value
Description:	Defines the time zone of the calendar number 1, which can be assigned later to a specific queue.
Group:	Framework
SubGroup:	Core::Time::Calendar1
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeZone::Calendar1'} = '0';</pre>

TimeVacationDays::Calendar1

Description	Value
Description:	Adds the permanent vacation days for the calendar number 1. 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' => {</pre>

Description	Value
	<pre>'1' => 'International Workers\' Day' } };</pre>

TimeVacationDaysOneTime::Calendar1

Description	Value
Description:	Adds the one time vacation days for the calendar number 1. 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>

TimeWorkingHours::Calendar1

Description	Value
Description:	Defines the hours and week days of the calendar number 1, 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>

Description	Value
	<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', </pre>

Description	Value
	<pre> '12', '13', '14', '15', '16', '17', '18', '19', '20'] }; </pre>

Core::Time::Calendar2

TimeZone::Calendar2Name

Description	Value
Description:	Defines the name of the calendar number 2.
Group:	Framework
SubGroup:	Core::Time::Calendar2
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'TimeZone::Calendar2Name'} = 'Calendar Name 2'; </pre>

TimeZone::Calendar2

Description	Value
Description:	Defines the time zone of the calendar number 2, which can be assigned later to a specific queue.
Group:	Framework
SubGroup:	Core::Time::Calendar2
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'TimeZone::Calendar2'} = '0'; </pre>

TimeVacationDays::Calendar2

Description	Value
Description:	Adds the permanent vacation days for the calendar number 2. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar2
Valid:	1

Description	Value
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>

TimeVacationDaysOneTime::Calendar2

Description	Value
Description:	Adds the one time vacation days for the calendar number 2. 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' => { '1' => 'test' } } };</pre>

TimeWorkingHours::Calendar2

Description	Value
Description:	Defines the hours and week days of the calendar number 2, to count the working time.
Group:	Framework
SubGroup:	Core::Time::Calendar2
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeWorkingHours::Calendar2'} = { 'Fri' => [</pre>

Description	Value
	<pre> '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>

Description	Value
	<pre> '13', '14', '15', '16', '17', '18', '19', '20'], 'Wed' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'] }; </pre>

Core::Time::Calendar3

TimeZone::Calendar3Name

Description	Value
Description:	Defines the name of the calendar number 3.
Group:	Framework
SubGroup:	Core::Time::Calendar3
Valid:	1
Required:	1
Config-Setting:	<pre> \$self->{'TimeZone::Calendar3Name'} = 'Calendar Name 3'; </pre>

TimeZone::Calendar3

Description	Value
Description:	Defines the time zone of the calendar number 3, which can be assigned later to a specific queue.
Group:	Framework
SubGroup:	Core::Time::Calendar3
Valid:	1

Description	Value
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar3'} = '0';</code>

TimeVacationDays::Calendar3

Description	Value
Description:	Adds the permanent vacation days for the calendar number 3. 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>

TimeVacationDaysOneTime::Calendar3

Description	Value
Description:	Adds the one time vacation days for the calendar number 3. 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>

TimeWorkingHours::Calendar3

Description	Value
Description:	Defines the hours and week days of the calendar number 3, 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', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Sat' => [], 'Sun' => [], 'Thu' => ['8', '9', '10', '11', '12', '13', '14', </pre>

Description	Value
	<pre> '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']]; </pre>

Core::Time::Calendar4

TimeZone::Calendar4Name

Description	Value
Description:	Defines the name of the calendar number 4.
Group:	Framework
SubGroup:	Core::Time::Calendar4
Valid:	1
Required:	1
Config-Setting:	

Description	Value
	<code>\$Self->{'TimeZone::Calendar4Name'} = 'Calendar Name 4';</code>

TimeZone::Calendar4

Description	Value
Description:	Defines the time zone of the calendar number 4, 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>

TimeVacationDays::Calendar4

Description	Value
Description:	Adds the permanent vacation days for the calendar number 4. 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:	<code>\$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' } };</code>

TimeVacationDaysOneTime::Calendar4

Description	Value
Description:	Adds the one time vacation days for the calendar number 4. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar4

Description	Value
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDaysOneTime::Calendar4'} = { '2004' => { '1' => { '1' => 'test' } } };</pre>

TimeWorkingHours::Calendar4

Description	Value
Description:	Defines the hours and week days of the calendar number 4, 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',</pre>

Description	Value
	<pre>'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'] };</pre>

Core::Time::Calendar5

TimeZone::Calendar5Name

Description	Value
Description:	Defines the name of the calendar number 5.
Group:	Framework
SubGroup:	Core::Time::Calendar5
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeZone::Calendar5Name'} = 'Calendar Name 5';</pre>

TimeZone::Calendar5

Description	Value
Description:	Defines the time zone of the calendar number 5, which can be assigned later to a specific queue.
Group:	Framework
SubGroup:	Core::Time::Calendar5
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeZone::Calendar5'} = '0';</pre>

TimeVacationDays::Calendar5

Description	Value
Description:	Adds the permanent vacation days for the calendar number 5. 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' => {</pre>

Description	Value
	<pre>'1' => 'International Workers\' Day' } };</pre>

TimeVacationDaysOneTime::Calendar5

Description	Value
Description:	Adds the one time vacation days for the calendar number 5. 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>

TimeWorkingHours::Calendar5

Description	Value
Description:	Defines the hours and week days of the calendar number 5, 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'], }</pre>

Description	Value
	<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', </pre>

Description	Value
	<pre> '12', '13', '14', '15', '16', '17', '18', '19', '20'] }; </pre>

Core::Time::Calendar6

TimeZone::Calendar6Name

Description	Value
Description:	Defines the name of the calendar number 6.
Group:	Framework
SubGroup:	Core::Time::Calendar6
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'TimeZone::Calendar6Name'} = 'Calendar Name 6'; </pre>

TimeZone::Calendar6

Description	Value
Description:	Defines the time zone of the calendar number 6, which can be assigned later to a specific queue.
Group:	Framework
SubGroup:	Core::Time::Calendar6
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'TimeZone::Calendar6'} = '0'; </pre>

TimeVacationDays::Calendar6

Description	Value
Description:	Adds the permanent vacation days for the calendar number 6. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar6
Valid:	1

Description	Value
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>

TimeVacationDaysOneTime::Calendar6

Description	Value
Description:	Adds the one time vacation days for the calendar number 6. 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>

TimeWorkingHours::Calendar6

Description	Value
Description:	Defines the hours and week days of the calendar number 6, to count the working time.
Group:	Framework
SubGroup:	Core::Time::Calendar6
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeWorkingHours::Calendar6'} = { 'Fri' => [</pre>

Description	Value
	<pre> '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>

Description	Value
	<pre> '13', '14', '15', '16', '17', '18', '19', '20'], 'Wed' => ['8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20'] }; </pre>

Core::Time::Calendar7

TimeZone::Calendar7Name

Description	Value
Description:	Defines the name of the calendar number 7.
Group:	Framework
SubGroup:	Core::Time::Calendar7
Valid:	1
Required:	1
Config-Setting:	<pre> \$self->{'TimeZone::Calendar7Name'} = 'Calendar Name 7'; </pre>

TimeZone::Calendar7

Description	Value
Description:	Defines the time zone of the calendar number 7, which can be assigned later to a specific queue.
Group:	Framework
SubGroup:	Core::Time::Calendar7
Valid:	1

Description	Value
Required:	1
Config-Setting:	<code>\$Self->{'TimeZone::Calendar7'} = '0';</code>

TimeVacationDays::Calendar7

Description	Value
Description:	Adds the permanent vacation days for the calendar number 7. 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>

TimeVacationDaysOneTime::Calendar7

Description	Value
Description:	Adds the one time vacation days for the calendar number 7. 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>

TimeWorkingHours::Calendar7

Description	Value
Description:	Defines the hours and week days of the calendar number 7, 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', '12', '13', '14', '15', '16', '17', '18', '19', '20'], 'Sat' => [], 'Sun' => [], 'Thu' => ['8', '9', '10', '11', '12', '13', '14', </pre>

Description	Value
	<pre> '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']]; </pre>

Core::Time::Calendar8

TimeZone::Calendar8Name

Description	Value
Description:	Defines the name of the calendar number 8.
Group:	Framework
SubGroup:	Core::Time::Calendar8
Valid:	1
Required:	1
Config-Setting:	

Description	Value
	<code>\$Self->{'TimeZone::Calendar8Name'} = 'Calendar Name 8';</code>

TimeZone::Calendar8

Description	Value
Description:	Defines the time zone of the calendar number 8, 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>

TimeVacationDays::Calendar8

Description	Value
Description:	Adds the permanent vacation days for the calendar number 8. 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:	<code>\$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' } };</code>

TimeVacationDaysOneTime::Calendar8

Description	Value
Description:	Adds the one time vacation days for the calendar number 8. Please use single digit pattern for numbers from 1 to 9 (instead of 01 - 09).
Group:	Framework
SubGroup:	Core::Time::Calendar8

Description	Value
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeVacationDaysOneTime::Calendar8'} = { '2004' => { '1' => { '1' => 'test' } } };</pre>

TimeWorkingHours::Calendar8

Description	Value
Description:	Defines the hours and week days of the calendar number 8, 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',</pre>

Description	Value
	<pre> '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']] }; </pre>

Core::Time::Calendar9

TimeZone::Calendar9Name

Description	Value
Description:	Defines the name of the calendar number 9.
Group:	Framework
SubGroup:	Core::Time::Calendar9
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeZone::Calendar9Name'} = 'Calendar Name 9';</pre>

TimeZone::Calendar9

Description	Value
Description:	Defines the time zone of the calendar number 9, which can be assigned later to a specific queue.
Group:	Framework
SubGroup:	Core::Time::Calendar9
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TimeZone::Calendar9'} = '0';</pre>

TimeVacationDays::Calendar9

Description	Value
Description:	Adds the permanent vacation days for the calendar number 9. 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->{'TimeVacationDays::Calendar9'} = { '1' => { '1' => 'New Year\'s Day' }, '12' => { '24' => 'Christmas Eve', '25' => 'First Christmas Day', '26' => 'Second Christmas Day', '31' => 'New Year\'s Eve' }, '5' => {</pre>

Description	Value
	<pre>'1' => 'International Workers\' Day' } };</pre>

TimeVacationDaysOneTime::Calendar9

Description	Value
Description:	Adds the one time vacation days for the calendar number 9. 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>

TimeWorkingHours::Calendar9

Description	Value
Description:	Defines the hours and week days of the calendar number 9, 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'], }</pre>

Description	Value
	<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', </pre>

Description	Value
	<pre> '12', '13', '14', '15', '16', '17', '18', '19', '20'] }; </pre>

Core::Web

Frontend::WebPath

Description	Value
Description:	Defines the URL base path of icons, CSS and Java Script.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'Frontend::WebPath'} = '/otrs-web/'; </pre>

Frontend::ImagePath

Description	Value
Description:	Defines the URL image path of icons for navigation.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<pre> \$Self->{'Frontend::ImagePath'} = '<OTRS_CONFIG_Frontend::WebPath>skins/Agent/ default/img/'; </pre>

Frontend::CSSPath

Description	Value
Description:	Defines the URL CSS path.
Group:	Framework
SubGroup:	Core::Web

Description	Value
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Frontend::CSSPath'} = '<OTRS_CONFIG_Frontend::WebPath>css/';</pre>

Frontend::JavaScriptPath

Description	Value
Description:	Defines the URL java script path.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Frontend::JavaScriptPath'} = '<OTRS_CONFIG_Frontend::WebPath>js/';</pre>

Frontend::RichText

Description	Value
Description:	Uses richtext for viewing and editing: articles, salutations, signatures, standard responses, auto responses and notifications.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Frontend::RichText'} = '1';</pre>

Frontend::RichTextPath

Description	Value
Description:	Defines the URL rich text editor path.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Frontend::RichTextPath'} = '<OTRS_CONFIG_Frontend::WebPath>js/thirdparty/ ckeditor-3.4.2/';</pre>

Frontend::RichTextWidth

Description	Value
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>

Frontend::RichTextHeight

Description	Value
Description:	Defines the =hHeight 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>

Frontend::RichText::DefaultCSS

Description	Value
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>

DefaultViewNewLine

Description	Value
Description:	Automated line break in text messages after x number of chars.
Group:	Framework
SubGroup:	Core::Web
Valid:	1

Description	Value
Required:	1
Config-Setting:	<code>\$Self->{'DefaultViewNewLine'} = '90';</code>

DefaultViewLines

Description	Value
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>

Frontend::AnimationEnabled

Description	Value
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>

AttachmentDownloadType

Description	Value
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>

WebMaxFileUpload

Description	Value
Description:	Defines the maximal size (in bytes) for file uploads via the browser.

Description	Value
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'WebMaxFileUpload'} = '16777216';</code>

WebUploadCacheModule

Description	Value
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>

Frontend::Output::FilterText###AAAURL

Description	Value
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' };</code>

Frontend::Themes

Description	Value
Description:	Activates the available themes on the system. Value 1 means active, 0 means inactive.
Group:	Framework
SubGroup:	Core::Web
Valid:	1

Description	Value
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Themes'} = { 'Lite' => '0', 'Standard' => '1' };</pre>

Frontend::Output::FilterText###OutputFilterTextAutoLink

Description	Value
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' };</pre>

Frontend::Output::OutputFilterTextAutoLink###CVE

Description	Value
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)\\-(\\d{3,4})\\-(\\d{2,6})'], '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>' } };</pre>

Description	Value
	<pre> }, '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', 'Target' => '_blank', 'URL' => 'http://nvd.nist.gov/nvd.cfm?cvename=<MATCH1>-<MATCH2>-<MATCH3>' } }; </pre>

Frontend::Output::OutputFilterTextAutoLink###Bugtraq

Description	Value
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})'], 'URL1' => { 'Description' => 'Security Focus', 'Image' => 'http://www.securityfocus.com/favicon.ico', 'Target' => '_blank', 'URL' => 'http://www.securityfocus.com/bid/<MATCH1>/info' }, </pre>

Description	Value
	<pre>'URL2' => { 'Description' => 'Google', 'Image' => 'http://www.google.de/favicon.ico', 'Target' => '_blank', 'URL' => 'http://google.com/search?q=<MATCH>' } };</pre>

Frontend::Output::OutputFilterTextAutoLink###MSBulletins

Description	Value
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})'], '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>' } };</pre>

Frontend::Output::OutputFilterTextAutoLink###Setting1

Description	Value
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

Description	Value
	(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'], 'URL1' => { 'Description' => 'Description', 'Image' => 'right-small.png', 'Target' => '_blank', 'URL' => 'URL' }, 'URL2' => { 'Description' => 'Description', 'Image' => 'Image', 'Target' => '_blank', 'URL' => 'URL' } }; </pre>

Frontend::Output::OutputFilterTextAutoLink###Setting2

Description	Value
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'], 'URL1' => { 'Description' => 'Description', 'Image' => 'right-small.png', </pre>

Description	Value
	<pre> 'Target' => '_blank', 'URL' => 'URL' }, 'URL2' => { 'Description' => 'Description', 'Image' => 'Image', 'Target' => '_blank', 'URL' => 'URL' }, 'URL3' => { 'Description' => 'Description', 'Image' => 'Image', 'Target' => '_blank', 'URL' => 'URL' } } }; </pre>

Loader::Enabled::CSS

Description	Value
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>

Loader::Enabled::JS

Description	Value
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>

Loader::Agent::CommonCSS###000-Framework

Description	Value
Description:	List of CSS files to always be loaded for the agent interface.

Description	Value
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']; </pre>

Loader::Agent::CommonCSS::IE7###000-Framework

Description	Value
Description:	List of IE7-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::IE7'}->{'000-Framework'} = ['Core.Default.IE7.css', 'Core.Header.IE7.css', 'Core.OverviewControl.IE7.css', 'Core.OverviewSmall.IE7.css', 'Core.OverviewMedium.IE7.css', 'Core.OverviewLarge.IE7.css', 'Core.PageLayout.IE7.css', 'Core.Form.IE7.css', 'Core.Widget.IE7.css', 'Core.WidgetMenu.IE7.css', 'Core.Tooltip.IE7.css', </pre>

Description	Value
	<pre>'Core.Dialog.IE7.css', 'Core.TicketDetail.IE7.css', 'Core.Table.IE7.css'];</pre>

Loader::Agent::CommonCSS::IE8###000-Framework

Description	Value
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>

Loader::Agent::CommonJS###000-Framework

Description	Value
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/json/json2.js', 'thirdparty/jquery-1.4.4/jquery.js', 'thirdparty/jquery-ui-1.8.7/jquery-ui.js', 'thirdparty/jquery-validate-1.7/ jquery.validate.js', 'thirdparty/stacktrace/stacktrace.js', 'Core.JavaScriptEnhancements.js', 'Core.Debug.js', 'Core.Data.js', 'Core.Config.js', 'Core.Exception.js', 'Core.JSON.js', 'Core.AJAX.js', 'Core.UI.js', 'Core.UI.IE7Fixes.js', 'Core.UI.Accordion.js', 'Core.UI.Datepicker.js',</pre>

Description	Value
	<pre> '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.Form.js', 'Core.Form.ErrorTooltips.js', 'Core.Form.Validate.js', 'Core.App.js', 'Core.Agent.js', 'Core.Agent.Search.js']; </pre>

Loader::Customer::CommonCSS###000-Framework

Description	Value
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']; </pre>

Loader::Customer::CommonCSS::IE6###000-Framework

Description	Value
Description:	List of IE6-specific CSS files to always be loaded for the customer interface.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1

Description	Value
Config-Setting:	<pre>\$Self->{'Loader::Customer::CommonCSS::IE6'}- >{'000-Framework'} = ['Core.IE6.css', 'Core.Tooltip.IE6.css'];</pre>

Loader::Customer::CommonCSS::IE7###000-Framework

Description	Value
Description:	List of IE7-specific 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::IE7'}- >{'000-Framework'} = ['Core.IE7.css', 'Core.Tooltip.IE7.css', 'Core.Dialog.IE7.css'];</pre>

Loader::Customer::CommonCSS::IE8###000-Framework

Description	Value
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:	<pre>\$Self->{'Loader::Customer::CommonCSS::IE8'}- >{'000-Framework'} = [];</pre>

Loader::Customer::CommonJS###000-Framework

Description	Value
Description:	List of JS files to always be loaded for the customer interface.
Group:	Framework
SubGroup:	Core::Web
Valid:	1
Required:	1

Description	Value
Config-Setting:	<pre> \$Self->{'Loader::Customer::CommonJS'}->{'000-Framework'} = ['thirdparty/jquery-1.4.4/jquery.js', 'thirdparty/jquery-validate-1.7/jquery.validate.js', 'thirdparty/jquery-ui-1.8.7/jquery-ui.js', 'thirdparty/stacktrace/stacktrace.js', 'Core.Debug.js', 'Core.Data.js', 'Core.Exception.js', 'Core.App.js', 'Core.JavaScriptEnhancements.js', 'Core.Config.js', 'Core.UI.js', 'Core.UI.IE7Fixes.js', 'Core.UI.Accessibility.js', 'Core.UI.Dialog.js', 'Core.UI.RichTextEditor.js', 'Core.UI.Datepicker.js', 'Core.UI.Popup.js', 'Core.Form.js', 'Core.Form.ErrorTooltips.js', 'Core.Form.Validate.js', 'Core.Customer.js']; </pre>

Loader::Agent::DefaultSelectedSkin

Description	Value
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:	<pre> \$Self->{'Loader::Agent::DefaultSelectedSkin'} = 'default'; </pre>

Loader::Customer::SelectedSkin::HostBased

Description	Value
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.

Description	Value
Group:	Framework
SubGroup:	Core::Web
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Loader::Customer::SelectedSkin::HostBased'} = { 'host1\\.example\\.com' => 'Someskin1', 'host2\\.example\\.com' => 'Someskin2' };</pre>

Core::WebUserAgent

WebUserAgent::Timeout

Description	Value
Description:	Sets the timeout (in seconds) for http/ftp downloads.
Group:	Framework
SubGroup:	Core::WebUserAgent
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'WebUserAgent::Timeout'} = '15';</pre>

WebUserAgent::Proxy

Description	Value
Description:	Defines the connections for http/ftp, via a proxy.
Group:	Framework
SubGroup:	Core::WebUserAgent
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'WebUserAgent::Proxy'} = 'http:// proxy.sn.no:8001/';</pre>

Crypt::PGP

PGP

Description	Value
Description:	Enables PGP support. When PGP support is enabled for signing and securing mail, it is HIGHLY recommended that the web server be run

Description	Value
	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>

PGP::Bin

Description	Value
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>

PGP::Options

Description	Value
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>

PGP::Key::Password

Description	Value
Description:	Sets the password for private PGP key.
Group:	Framework
SubGroup:	Crypt::PGP
Valid:	1
Required:	1

Description	Value
Config-Setting:	<pre>\$Self->{'PGP::Key::Password'} = { '488A0B8F' => 'SomePassword', 'D2DF79FA' => 'SomePassword' };</pre>

PGP::TrustedNetwork

Description	Value
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>

PGP::Log

Description	Value
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.', 'SIGEXPIRED' => 'The PGP signature is expired.', 'SIG_ID' => 'Signature data.',</pre>

Description	Value
	<pre>'TRUST_UNDEFINED' => 'This key is not certified with a trusted signature!.', 'VALIDSIG' => 'The PGP signature with the keyid is good.' };</pre>

Crypt::SMIME

SMIME

Description	Value
Description:	Enables S/MIME support.
Group:	Framework
SubGroup:	Crypt::SMIME
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'SMIME'} = '0';</pre>

SMIME::Bin

Description	Value
Description:	Defines the path to open ssl binary. It may need a HOME env (\$ENV{HOME} = '/var/lib/wwwrun';).
Group:	Framework
SubGroup:	Crypt::SMIME
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'SMIME::Bin'} = '/usr/bin/openssl';</pre>

SMIME::CertPath

Description	Value
Description:	Specifies the directory where SSL certificates are stored.
Group:	Framework
SubGroup:	Crypt::SMIME
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'SMIME::CertPath'} = '/etc/ssl/certs';</pre>

SMIME::PrivatePath

Description	Value
Description:	Specifies the directory where private SSL certificates are stored.
Group:	Framework
SubGroup:	Crypt::SMIME
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'SMIME::PrivatePath'} = '/etc/ssl/private';</pre>

Frontend::Admin::AdminCustomerUser

AdminCustomerUser::RunInitialWildcardSearch

Description	Value
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>

Frontend::Admin::ModuleRegistration

Frontend::Module###Admin

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'Admin'} = { 'Description' => 'Admin-Area', 'Group' => ['admin'] }</pre>

Description	Value
	<pre>], 'Loader' => { 'CSS' => ['Core.Agent.Admin.css'], 'CSS_IE7' => ['Core.Agent.AdminIE7.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>

Frontend::Module###AdminInit

Description	Value
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>

Frontend::Module###AdminUser

Description	Value
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>

Frontend::Module###AdminGroup

Description	Value
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' }, }; </pre>

Description	Value
	<pre>'NavBarName' => 'Admin', 'Title' => 'Groups' };</pre>

Frontend::Module###AdminUserGroup

Description	Value
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>

Frontend::Module###AdminCustomerUser

Description	Value
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 Customers', 'Group' => ['admin', 'users'] };</pre>

Description	Value
	<pre>], 'GroupRo' => [''], 'Loader' => { 'JavaScript' => ['Core.Agent.TicketAction.js'] }, 'NavBar' => [{ 'AccessKey' => 'c', 'Block' => 'ItemArea', 'Description' => '', 'Link' => 'Action=AdminCustomerUser;Nav=Agent', 'LinkOption' => '', 'Name' => 'Customers', 'NavBar' => 'Customers', 'Prio' => '9000', 'Type' => 'Menu' }], 'NavBarModule' => { 'Block' => 'Customer', 'Description' => 'Create and manage customers.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Customers', 'Prio' => '300' }, 'NavBarName' => 'Customers', 'Title' => 'Customers' }; </pre>

Frontend::Module###AdminCustomerCompany

Description	Value
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', </pre>

Description	Value
	<pre> 'users'], 'GroupRo' => [''], 'NavBar' => [{ 'AccessKey' => 'c', 'Block' => 'ItemArea', 'Description' => '', 'Link' => 'Action=AdminCustomerCompany;Nav=Agent', 'LinkOption' => '', 'Name' => 'Companies', 'NavBar' => 'Companies', 'Prio' => '9100', 'Type' => 'Menu' }], 'NavBarModule' => { 'Block' => 'Customer', 'Description' => 'Create and manage companies.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Customer Companies', 'Prio' => '310' }, 'NavBarName' => 'Admin', 'Title' => 'Customer Companies' }; </pre>

Frontend::Module###AdminCustomerUserGroup

Description	Value
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 customers to groups.', </pre>

Description	Value
	<pre> 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Customers <-> Groups', 'Prio' => '400' }, 'NavBarName' => 'Admin', 'Title' => 'Customers <-> Groups' }; </pre>

Frontend::Module###AdminCustomerUserService

Description	Value
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', 'Description' => 'Link customers to services.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Customers <-> Services', 'Prio' => '500' }, 'NavBarName' => 'Admin', 'Title' => 'Customers <-> Services' }; </pre>

Frontend::Module###AdminRole

Description	Value
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'} = { </pre>

Description	Value
	<pre> 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Agent', 'Description' => 'Create and manage roles.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Roles', 'Prio' => '600' }, 'NavBarName' => 'Admin', 'Title' => 'Role' }; </pre>

Frontend::Module###AdminRoleUser

Description	Value
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' => 'Roles <-> Agents' }; </pre>

Frontend::Module###AdminRoleGroup

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Framework

Description	Value
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>

Frontend::Module###AdminSMIME

Description	Value
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>

Frontend::Module###AdminPGP

Description	Value
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', 'Prio' => '1200' }, 'NavBarName' => 'Admin', 'Title' => 'PGP Key Management' }; </pre>

Frontend::Module###AdminMailAccount

Description	Value
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', </pre>

Description	Value
	<pre> 'Name' => 'PostMaster Mail Accounts', 'Prio' => '100' }, 'NavBarName' => 'Admin', 'Title' => 'Mail Account' }; </pre>

Frontend::Module###AdminPostMasterFilter

Description	Value
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>

Frontend::Module###AdminEmail

Description	Value
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'] }; </pre>

Description	Value
	<pre>], 'NavBarModule' => { 'Block' => 'System', 'Description' => 'Send notifications to users.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Admin Notification', 'Prio' => '400' }, 'NavBarName' => 'Admin', 'Title' => 'Admin-Email' }; </pre>

Frontend::Module###AdminSession

Description	Value
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>

Frontend::Module###AdminPerformanceLog

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Framework
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1

Description	Value
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminPerformanceLog'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'Loader' => { 'CSS' => ['Core.Agent.Admin.PerformanceLog.css'] }, 'NavBarModule' => { 'Block' => 'System', 'Description' => 'View performance benchmark results.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Performance Log', 'Prio' => '550' }, 'NavBarName' => 'Admin', 'Title' => 'Performance Log' }; </pre>

Frontend::Module###AdminLog

Description	Value
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', }; </pre>

Description	Value
	<pre>'Title' => 'System Log' };</pre>

Frontend::Module###AdminSelectBox

Description	Value
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>

Frontend::Module###AdminPackageManager

Description	Value
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'} = { 'Description' => 'Software Package Manager', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'System',</pre>

Description	Value
	<pre> 'Description' => 'Update and extend your system with software packages.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Package Manager', 'Prio' => '1000' }, 'NavBarName' => 'Admin', 'Title' => 'Package Manager' }; </pre>

Frontend::Agent

AgentLogo

Description	Value
Description:	The logo shown in the header of the agent interface. The URL to the image must be a relative URL to the skin image directory.
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>

AgentLoginLogo

Description	Value
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>

LoginURL

Description	Value
Description:	Defines an alternate URL, where the login link refers to.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'LoginURL'} = 'http://host.example.com/login.html';</pre>

LogoutURL

Description	Value
Description:	Defines an alternate URL, where the logout link refers to.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'LogoutURL'} = 'http://host.example.com/thanks-for-using-otrs.html';</pre>

PreApplicationModule###AgentInfo

Description	Value
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:	<pre>\$Self->{'PreApplicationModule'}->{'AgentInfo'} = 'Kernel::Modules::AgentInfo';</pre>

InfoKey

Description	Value
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:	0

Description	Value
Required:	0
Config-Setting:	<code>\$Self->{'InfoKey'} = 'wpt22';</code>

InfoFile

Description	Value
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:	0
Required:	0
Config-Setting:	<code>\$Self->{'InfoFile'} = 'AgentInfo';</code>

LostPassword

Description	Value
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>

ShowMotd

Description	Value
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>

NotificationSubjectLostPasswordToken

Description	Value
Description:	Defines the subject for notification mails sent to agents, with token about new requested password.

Description	Value
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'NotificationSubjectLostPasswordToken'} = 'New OTRS password request';</pre>

NotificationBodyLostPasswordToken

Description	Value
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>

NotificationSubjectLostPassword

Description	Value
Description:	Defines the subject for notification mails sent to agents, about new password.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1

Description	Value
Required:	1
Config-Setting:	<code>\$Self->{'NotificationSubjectLostPassword'} = 'New OTRS password';</code>

NotificationBodyLostPassword

Description	Value
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_HttpType>://<OTRS_CONFIG_FQDN>/ <OTRS_CONFIG_ScriptAlias>index.pl '; </pre>

OpenMainMenuOnHover

Description	Value
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>

Loader::Agent::Skin###000-default

Description	Value
Description:	Default skin for interface.
Group:	Framework

Description	Value
SubGroup:	Frontend::Agent
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Loader::Agent::Skin'}->{'000-default'} = { 'Description' => 'This is the default orange - black skin.', 'HomePage' => 'www.otrs.org', 'InternalName' => 'default', 'VisibleName' => 'Default' };</pre>

Loader::Agent::Skin###001-ivory

Description	Value
Description:	Balanced white skin by Felix Niklas.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Loader::Agent::Skin'}->{'001-ivory'} = { 'Description' => 'Balanced white skin by Felix Niklas', 'HomePage' => 'www.felixniklas.de', 'InternalName' => 'ivory', 'VisibleName' => 'Ivory' };</pre>

Loader::Agent::Skin###001-slim

Description	Value
Description:	Experimental "Slim" skin which tries to save screen space for power users.
Group:	Framework
SubGroup:	Frontend::Agent
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Loader::Agent::Skin'}->{'001-slim'} = { 'Description' => 'Experimental "Slim" skin which tries to save screen space for power users.', 'HomePage' => 'www.otrs.org', 'InternalName' => 'slim', 'VisibleName' => 'Slim' };</pre>

Description	Value
	<code>};</code>

Loader::Agent::DefaultSelectedSkin::HostBased

Description	Value
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>

Frontend::Agent::Dashboard

DashboardBackend###0000-ProductNotify

Description	Value
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',</pre>

Description	Value
	<pre>'Title' => 'Product News', 'URL' => 'http://otrs.org/product.xml' };</pre>

DashboardBackend###0400-UserOnline

Description	Value
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' => '1', 'SortBy' => 'UserLastname', 'Title' => 'Online' };</pre>

DashboardBackend###0410-RSS

Description	Value
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

Description	Value
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://otrs.org/rss/' };</pre>

DashboardBackend###0200-Image

Description	Value
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>

DashboardBackend###0210-MOTD

Description	Value
Description:	Shows the message of the day (MOTD) in the agent dashboard. "Group" is used to restrict access to the plugin (e. g. Group:

Description	Value
	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>

DashboardBackend###0300-IFrame

Description	Value
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>

Frontend::Agent::ModuleMetaHead

Frontend::HeaderMetaModule###1-Refresh

Description	Value
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'}->{'1-Refresh'} = { 'Module' => 'Kernel::Output::HTML::HeaderMetaRefresh' };</pre>

Frontend::Agent::ModuleNotify

Frontend::NotifyModule###1-CharsetCheck

Description	Value
Description:	Module to inform agents, via the agent interface, about the used charset. A notification is displayed, if the default charset is not used, e.g. in tickets.
Group:	Framework
SubGroup:	Frontend::Agent::ModuleNotify
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Frontend::NotifyModule'}->{'1-CharsetCheck'} = { 'Module' => 'Kernel::Output::HTML::NotificationCharsetCheck' };</pre>

Frontend::NotifyModule###2-UID-Check

Description	Value
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

Description	Value
SubGroup:	Frontend::Agent::ModuleNotify
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Frontend::NotifyModule'}->{'2-UID-Check'} = { 'Module' => 'Kernel::Output::HTML::NotificationUIDCheck' };</pre>

Frontend::NotifyModule###3-ShowAgentOnline

Description	Value
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'}->{'3- ShowAgentOnline'} = { 'IdleMinutes' => '60', 'Module' => 'Kernel::Output::HTML::NotificationAgentOnline', 'ShowEmail' => '1' };</pre>

Frontend::NotifyModule###4-ShowCustomerOnline

Description	Value
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'}->{'4- ShowCustomerOnline'} = { 'IdleMinutes' => '60', 'Module' => 'Kernel::Output::HTML::NotificationCustomerOnline', 'ShowEmail' => '1' };</pre>

Frontend::Agent::ModuleRegistration

Frontend::Module###Logout

Description	Value
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>

Frontend::Module###AgentDashboard

Description	Value
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' => { 'JavaScript' => ['thirdparty/flot-0.6/excanvas.js', 'thirdparty/flot-0.6/jquery.flot.js', 'Core.UI.Chart.js', 'Core.UI.DnD.js', 'Core.Agent.Dashboard.js'] }, 'NavBar' => [{ 'AccessKey' => 'd', 'Block' => 'ItemArea', 'Description' => '', 'Link' => 'Action=AgentDashboard', 'LinkOption' => '', 'Name' => 'Dashboard', 'NavBar' => 'Dashboard',</pre>

Description	Value
	<pre> 'Prio' => '50', 'Type' => 'Menu' }], 'NavBarName' => 'Dashboard', 'Title' => '' }; </pre>

Frontend::Module###AgentPreferences

Description	Value
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>

Frontend::Module###PictureUpload

Description	Value
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>

Frontend::Module###AgentSpelling

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Framework

Description	Value
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>

Frontend::Module###SpellingInline

Description	Value
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>

Frontend::Module###AgentBook

Description	Value
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' => {</pre>

Description	Value
	<pre> JavaScript' => ['Core.Agent.TicketAction.js'], NavBarName' => '', Title' => 'Address Book' }; </pre>

Frontend::Module###AgentLinkObject

Description	Value
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>

Frontend::Module###AgentInfo

Description	Value
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>

Frontend::Module###AgentSearch

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Framework

Description	Value
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}->{'AgentSearch'} = { 'Description' => 'Global Search Module', 'NavBarName' => '', 'Title' => 'Search' };</pre>

CustomerFrontend::Module###SpellingInline

Description	Value
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>

Frontend::Module###AgentHTMLReference

Description	Value
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' => {</pre>

Description	Value
	<pre> 'CSS' => ['Core.Agent.HTMLReference.css'], 'NavBarName' => '', 'Title' => 'HTML Reference' }; </pre>

Frontend::Module###AgentStats

Description	Value
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=Overview', 'LinkOption' => '', 'Name' => 'Statistics', 'NavBar' => 'Stats', 'Prio' => '8500', 'Type' => 'Menu' }, { 'AccessKey' => '', 'Block' => '', 'Description' => 'Overview', 'GroupRo' => ['stats'], </pre>

Description	Value
	<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' }; </pre>

Frontend::Agent::NavBarModule

Frontend::NavBarModule###6-CustomerCompany

Description	Value
Description:	Frontend module registration (disable company link if no company feature is used).
Group:	Framework

Description	Value
SubGroup:	Frontend::Agent::NavBarModule
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::NavBarModule'}->{'6-CustomerCompany'} = { 'Module' => 'Kernel::Output::HTML::NavBarCustomerCompany' };</pre>

Frontend::Agent::Preferences

PreferencesTableValue

Description	Value
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:	<pre>\$Self->{'PreferencesTableValue'} = 'preferences_value';</pre>

PreferencesTableUserID

Description	Value
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:	<pre>\$Self->{'PreferencesTableUserID'} = 'user_id';</pre>

PreferencesView

Description	Value
Description:	Sets the display order of the different items in the preferences view.
Group:	Framework

Description	Value
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'PreferencesView'} = ['User Profile', 'Email Settings', 'Other Settings'];</pre>

PreferencesGroups###Password

Description	Value
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'}->{'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' };</pre>

PreferencesGroups###SpellDict

Description	Value
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

Description	Value
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>

PreferencesGroups###Comment

Description	Value
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>

PreferencesGroups###FreeText

Description	Value
Description:	Defines the config parameters of this item, to be shown in the preferences view.
Group:	Framework

Description	Value
SubGroup:	Frontend::Agent::Preferences
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'PreferencesGroups'}->{'FreeText'} = { 'Active' => '1', 'Block' => 'Input', 'Column' => 'Other Settings', 'Data' => '\$Env{"UserFreeText"}', 'Key' => 'Example for free text', 'Label' => 'Example for free text', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserFreeText', 'Prio' => '7000' };</pre>

PreferencesGroups###Language

Description	Value
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', 'Module' => 'Kernel::Output::HTML::PreferencesLanguage', 'PrefKey' => 'UserLanguage', 'Prio' => '1000' };</pre>

PreferencesGroups###Skin

Description	Value
Description:	Defines the config parameters of this item, to be shown in the preferences view.
Group:	Framework
SubGroup:	Frontend::Agent::Preferences
Valid:	1

Description	Value
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>

PreferencesGroups###Theme

Description	Value
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>

PreferencesGroups###OutOfOffice

Description	Value
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', </pre>

Description	Value
	<pre> 'Block' => 'OutOfOffice', 'Column' => 'User Profile', 'Key' => '', 'Label' => 'Out Of Office Time', 'Module' => 'Kernel::Output::HTML::PreferencesOutOfOffice', 'PrefKey' => 'UserOutOfOffice', 'Prio' => '4000' }; </pre>

PreferencesGroups###TimeZone

Description	Value
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>

PreferencesGroups###CSVSeparator

Description	Value
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' => { </pre>

Description	Value
	<pre> ' ' => ' ', ',' => ',', ';' => ';', '\\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>

Frontend::Agent::SearchRouter

Frontend::SearchDefault

Description	Value
Description:	Search backend default router.
Group:	Framework
SubGroup:	Frontend::Agent::SearchRouter
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::SearchDefault'} = 'Action=AgentTicketSearch;Subaction=AJAX'; </pre>

Frontend::Agent::Stats

Stats::SearchPageShown

Description	Value
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:	

Description	Value
	<code>\$Self->{'Stats::SearchPageShown'} = '20';</code>

Stats::DefaultSelectedDynamicObject

Description	Value
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>

Stats::DefaultSelectedPermissions

Description	Value
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>

Stats::DefaultSelectedFormat

Description	Value
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'} = ['Print', 'CSV'];</code>

Description	Value
];

Stats::SearchLimit

Description	Value
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>

Stats::Format

Description	Value
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>

Stats::GraphSize

Description	Value
Description:	Sets the size of the statistic graph.
Group:	Framework
SubGroup:	Frontend::Agent::Stats
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Stats::GraphSize'} = {</code>

Description	Value
	<pre>'1200x800' => '1200x800', '1600x1200' => '1600x1200', '800x600' => '800x600' };</pre>

Stats::TimeType

Description	Value
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>

Stats::ExchangeAxis

Description	Value
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>

Stats::UseAgentElementInStats

Description	Value
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>

Stats::CustomerIDAsMultiSelect

Description	Value
Description:	Shows all the customer identifiers in a multi-select field (not useful if you have a lot of customer identifiers).

Description	Value
Group:	Framework
SubGroup:	Frontend::Agent::Stats
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Stats::CustomerIDAsMultiSelect'} = '1';</code>

Frontend::Customer

CustomerHeadline

Description	Value
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>

CustomerLogo

Description	Value
Description:	The logo shown in the header of the customer interface. The URL to the image must be a relative URL to the skin image directory.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'CustomerLogo'} = { 'StyleHeight' => '50px', 'StyleRight' => '25px', 'StyleTop' => '2px', 'StyleWidth' => '135px', 'URL' => 'skins/Customer/default/img/logo.png' };</code>

CustomerPanelUserID

Description	Value
Description:	Defines the user identifier for the customer panel.

Description	Value
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerPanelUserID'} = '1';</code>

CustomerGroupSupport

Description	Value
Description:	Activates support for customer groups.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerGroupSupport'} = '0';</code>

CustomerGroupAlwaysGroups

Description	Value
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:	<code>\$Self->{'CustomerGroupAlwaysGroups'} = ['users'];</code>

CustomerPanelLoginURL

Description	Value
Description:	Defines an alternate login URL for the customer panel..
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	0
Required:	0
Config-Setting:	

Description	Value
	<code>\$Self->{'CustomerPanelLoginURL'} = 'http://host.example.com/cgi-bin/login.pl';</code>

CustomerPanelLogoutURL

Description	Value
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>

Frontend::CustomerUser::Item###1-GoogleMaps

Description	Value
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>

Frontend::CustomerUser::Item###2-Google

Description	Value
Description:	Defines a customer item, which generates a google icon at the end of a customer info block.
Group:	Framework

Description	Value
SubGroup:	Frontend::Customer
Valid:	0
Required:	0
Config-Setting:	<pre> \$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', 'Text' => 'Google', 'URL' => 'http://google.com/search?q=' }; </pre>

Frontend::CustomerUser::Item###2-LinkedIn

Description	Value
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>

Frontend::CustomerUser::Item###3-XING

Description	Value
Description:	Defines a customer item, which generates a XING icon at the end of a customer info block.
Group:	Framework

Description	Value
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>

CustomerPanelPreApplicationModule###CustomerAccept

Description	Value
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>

CustomerPanel::InfoKey

Description	Value
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:	<pre> \$Self->{'CustomerPanel::InfoKey'} = 'CustomerAccept1'; </pre>

CustomerPanel::InfoFile

Description	Value
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>

CustomerPanelLostPassword

Description	Value
Description:	Activates lost password feature for customers.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerPanelLostPassword'} = '1';</code>

CustomerPanelCreateAccount

Description	Value
Description:	Enables customers to create their own accounts.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerPanelCreateAccount'} = '1';</code>

CustomerPanelSubjectLostPasswordToken

Description	Value
Description:	Defines the subject for notification mails sent to customers, with token about new requested password.
Group:	Framework
SubGroup:	Frontend::Customer

Description	Value
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'CustomerPanelSubjectLostPasswordToken'} = 'New OTRS password request';</code>

CustomerPanelBodyLostPasswordToken

Description	Value
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_HttpType>://<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>

CustomerPanelSubjectLostPassword

Description	Value
Description:	Defines the subject for notification mails sent to customers, about new password.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	

Description	Value
	<code>\$Self->{'CustomerPanelSubjectLostPassword'} = 'New OTRS password';</code>

CustomerPanelBodyLostPassword

Description	Value
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_HttpType>://<OTRS_CONFIG_FQDN>/ <OTRS_CONFIG_ScriptAlias>customer.pl ';</pre>

CustomerPanelSubjectNewAccount

Description	Value
Description:	Defines the subject for notification mails sent to customers, about new account.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'CustomerPanelSubjectNewAccount'} = 'New OTRS Account!';</pre>

CustomerPanelBodyNewAccount

Description	Value
Description:	Defines the body text for notification mails sent to customers, about new account.
Group:	Framework
SubGroup:	Frontend::Customer
Valid:	1

Description	Value
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>

Loader::Customer::Skin###000-default

Description	Value
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>

Loader::Customer::SelectedSkin

Description	Value
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

Description	Value
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Loader::Customer::SelectedSkin'} = 'default';</code>

Frontend::Customer::Auth

Customer::AuthModule

Description	Value
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>

Customer::AuthModule::DB::CryptType

Description	Value
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'} = 'md5';</code>

Customer::AuthModule::DB::Table

Description	Value
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

Description	Value
Config-Setting:	<code>\$Self->{'Customer::AuthModule::DB::Table'} = 'customer_user';</code>

Customer::AuthModule::DB::CustomerKey

Description	Value
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>

Customer::AuthModule::DB::CustomerPassword

Description	Value
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>

Customer::AuthModule::DB::DSN

Description	Value
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>

Customer::AuthModule::DB::User

Description	Value
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:	<pre>\$Self->{'Customer::AuthModule::DB::User'} = 'some_user';</pre>

Customer::AuthModule::DB::Password

Description	Value
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:	<pre>\$Self->{'Customer::AuthModule::DB::Password'} = 'some_password';</pre>

Customer::AuthModule::DB::Type

Description	Value
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:	<pre>\$Self->{'Customer::AuthModule::DB::Type'} = 'mysql';</pre>

Customer::AuthModule::HTTPBasicAuth::Replace

Description	Value
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).

Description	Value
Group:	Framework
SubGroup:	Frontend::Customer::Auth
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{ 'Customer::AuthModule::HTTPBasicAuth::Replace' } = 'example_domain\\\\';</pre>

Customer::AuthModule::HTTPBasicAuth::ReplaceRegExp

Description	Value
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:	<pre>\$Self->{ 'Customer::AuthModule::HTTPBasicAuth::ReplaceRegExp' } = '^(.+?)@.+?\$';</pre>

Customer::AuthModule::LDAP::Host

Description	Value
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:	<pre>\$Self->{ 'Customer::AuthModule::LDAP::Host' } = 'ldap.example.com';</pre>

Customer::AuthModule::LDAP::BaseDN

Description	Value
Description:	If "LDAP" was selected for Customer::AuthModule, the BaseDN must be specified.
Group:	Framework
SubGroup:	Frontend::Customer::Auth

Description	Value
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Customer::AuthModule::LDAP::BaseDN'} = 'dc=example,dc=com';</code>

Customer::AuthModule::LDAP::UID

Description	Value
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>

Customer::AuthModule::LDAP::GroupDN

Description	Value
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>

Customer::AuthModule::LDAP::AccessAttr

Description	Value
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:	

Description	Value
	<code>\$Self->{'Customer::AuthModule::LDAP::AccessAttr'} = 'memberUid';</code>

Customer::AuthModule::LDAP::UserAttr

Description	Value
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>

Customer::AuthModule::LDAP::SearchUserDN

Description	Value
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>

Customer::AuthModule::LDAP::SearchUserPw

Description	Value
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

Description	Value
Config-Setting:	<pre>\$Self->{'Customer::AuthModule::LDAP::SearchUserPw'} = 'some_password';</pre>

Customer::AuthModule::LDAP::AlwaysFilter

Description	Value
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:	<pre>\$Self->{'Customer::AuthModule::LDAP::AlwaysFilter'} = '(!objectclass=computer)';</pre>

Customer::AuthModule::LDAP::UserSuffix

Description	Value
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:	<pre>\$Self->{'Customer::AuthModule::LDAP::UserSuffix'} = '@domain.com';</pre>

Customer::AuthModule::LDAP::Params

Description	Value
Description:	If "LDAP" was selected for Customer::AuthModule and special parameters 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

Description	Value
Required:	0
Config-Setting:	<pre>\$Self->{'Customer::AuthModule::LDAP::Params'} = { 'async' => '0', 'port' => '389', 'timeout' => '120', 'version' => '3' };</pre>

Customer::AuthModule::LDAP::Die

Description	Value
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:	<pre>\$Self->{'Customer::AuthModule::LDAP::Die'} = '1';</pre>

Customer::AuthModule::Radius::Host

Description	Value
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:	<pre>\$Self->{'Customer::AuthModule::Radius::Host'} = 'radiushost';</pre>

Customer::AuthModule::Radius::Password

Description	Value
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

Description	Value
Config-Setting:	<pre>\$Self->{'Customer::AuthModule::Radius::Password'} = 'radiussecret';</pre>

Customer::AuthModule::Radius::Die

Description	Value
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:	<pre>\$Self->{'Customer::AuthModule::Radius::Die'} = '1';</pre>

Frontend::Customer::ModuleMetaHead

CustomerFrontend::HeaderMetaModule###1-Refresh

Description	Value
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:	<pre>\$Self->{'CustomerFrontend::HeaderMetaModule'}->{'1-Refresh'} = { 'Module' => 'Kernel::Output::HTML::HeaderMetaRefresh' };</pre>

Frontend::Customer::ModuleNotify

CustomerFrontend::NotifyModule###1-ShowAgentOnline

Description	Value
Description:	Defines the module that shows the currently logged in agents in the customer interface.
Group:	Framework

Description	Value
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>

CustomerFrontend::NotifyModule###1-ShowCustomerOnline

Description	Value
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>

Frontend::Customer::ModuleRegistration

CustomerFrontend::Module###Logout

Description	Value
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>

Description	Value
	<code>};</code>

CustomerFrontend::Module###CustomerPreferences

Description	Value
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>

CustomerFrontend::Module###CustomerAccept

Description	Value
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 infos', 'NavBarName' => '', 'Title' => 'Info' };</pre>

CustomerFrontend::Module###PictureUpload

Description	Value
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'} = {</pre>

Description	Value
	<pre>'Description' => 'Picture upload module', 'NavBarName' => 'Ticket', 'Title' => 'Picture-Upload' };</pre>

Frontend::Customer::Preferences

PreferencesTable

Description	Value
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:	<code>\$Self->{'PreferencesTable'} = 'user_preferences';</code>

PreferencesTableKey

Description	Value
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>

CustomerPreferences

Description	Value
Description:	Defines the parameters for the customer preferences table.
Group:	Framework
SubGroup:	Frontend::Customer::Preferences
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'CustomerPreferences'} = { 'Module' => 'Kernel::System::CustomerUser::Preferences::DB',</pre>

Description	Value
	<pre>'Params' => { 'Table' => 'customer_preferences', 'TableKey' => 'preferences_key', 'TableUserID' => 'user_id', 'TableValue' => 'preferences_value' } };</pre>

CustomerPreferencesView

Description	Value
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:	<pre>\$Self->{'CustomerPreferencesView'} = ['User Profile', 'Other Settings'];</pre>

CustomerPreferencesGroups###Password

Description	Value
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'}->{'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' };</pre>

CustomerPreferencesGroups###Language

Description	Value
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' => 'Your language', 'Label' => 'Interface language', 'Module' => 'Kernel::Output::HTML::PreferencesLanguage', 'PrefKey' => 'UserLanguage', 'Prio' => '2000' }; </pre>

CustomerPreferencesGroups###Theme

Description	Value
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>

CustomerPreferencesGroups###TimeZone

Description	Value
Description:	Defines all the parameters for this item in the customer preferences.

Description	Value
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>

CustomerPreferencesGroups###PGP

Description	Value
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>

CustomerPreferencesGroups###SMIME

Description	Value
Description:	Defines all the parameters for this item in the customer preferences.
Group:	Framework
SubGroup:	Frontend::Customer::Preferences
Valid:	1
Required:	0

Description	Value
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>

Frontend::Public

PublicFrontend::CommonParam###Action

Description	Value
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>

Frontend::Public::ModuleRegistration

PublicFrontend::Module###PublicDefault

Description	Value
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>

PublicFrontend::Module###PublicRepository

Description	Value
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>

Ticket

Core::ArticleFreeText

ArticleFreeKey1

Description	Value
Description:	Defines the free key field number 1 for articles to add a new article attribute.
Group:	Ticket
SubGroup:	Core::ArticleFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'ArticleFreeKey1'} = { 'Work1' => 'Work1' };</pre>

ArticleFreeKey1::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 1 for articles (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::ArticleFreeText
Valid:	0
Required:	0
Config-Setting:	

Description	Value
	<code>\$Self->{'ArticleFreeKey1::DefaultSelection'} = '';</code>

ArticleFreeText1

Description	Value
Description:	Defines the free text field number 1 for articles to add a new article attribute.
Group:	Ticket
SubGroup:	Core::ArticleFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'ArticleFreeText1'} = { '' => '-', 'Bugfix' => 'Bugfix', 'Consulting' => 'Consulting', 'Research' => 'Research' };</pre>

ArticleFreeText1::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 1 for articles (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::ArticleFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'ArticleFreeText1::DefaultSelection'} = 'Research';</pre>

ArticleFreeKey2

Description	Value
Description:	Defines the free key field number 2 for articles to add a new article attribute.
Group:	Ticket
SubGroup:	Core::ArticleFreeText
Valid:	0
Required:	0
Config-Setting:	

Description	Value
	<pre>\$Self->{'ArticleFreeKey2'} = { 'Work2' => 'Work2' };</pre>

ArticleFreeKey2::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 2 for articles (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::ArticleFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'ArticleFreeKey2::DefaultSelection'} = '';</pre>

ArticleFreeText2

Description	Value
Description:	Defines the free text field number 2 for articles to add a new article attribute.
Group:	Ticket
SubGroup:	Core::ArticleFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'ArticleFreeText2'} = { '' => '-', 'Bugfix' => 'Bugfix', 'Consulting' => 'Consulting', 'Research' => 'Research' };</pre>

ArticleFreeText2::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 2 for articles (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::ArticleFreeText
Valid:	0
Required:	0
Config-Setting:	

Description	Value
	<code>\$Self->{'ArticleFreeText2::DefaultSelection'} = 'Research';</code>

ArticleFreeKey3

Description	Value
Description:	Defines the free key field number 3 for articles to add a new article attribute.
Group:	Ticket
SubGroup:	Core::ArticleFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'ArticleFreeKey3'} = { 'Work3' => 'Work3' };</code>

ArticleFreeKey3::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 3 for articles (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::ArticleFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'ArticleFreeKey3::DefaultSelection'} = '';</code>

ArticleFreeText3

Description	Value
Description:	Defines the free text field number 3 for articles to add a new article attribute.
Group:	Ticket
SubGroup:	Core::ArticleFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'ArticleFreeText3'} = { '' => '-', 'Bugfix' => 'Bugfix', 'Consulting' => 'Consulting', 'Research' => 'Research'</code>

Description	Value
	<code>};</code>

ArticleFreeText3::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 3 for articles (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::ArticleFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'ArticleFreeText3::DefaultSelection'} = 'Research';</code>

Core::FulltextSearch

Ticket::SearchIndexModule

Description	Value
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>

Ticket::SearchIndex::Attribute

Description	Value
Description:	Configures the full-text index. 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'} = {</code>

Description	Value
	<pre>'WordCountMax' => '1000', 'WordLengthMax' => '30', 'WordLengthMin' => '3' };</pre>

Ticket::EventModulePost###98-ArticleSearchIndex

Description	Value
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>

Core::LinkObject

LinkObject::PossibleLink###0200

Description	Value
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>

LinkObject::PossibleLink###0201

Description	Value
Description:	Links 2 tickets with a "ParentChild" type link.
Group:	Ticket
SubGroup:	Core::LinkObject
Valid:	1

Description	Value
Required:	0
Config-Setting:	<pre>\$Self->{'LinkObject::PossibleLink'}->{'0201'} = { 'Object1' => 'Ticket', 'Object2' => 'Ticket', 'Type' => 'ParentChild' };</pre>

Core::PostMaster

PostmasterMaxEmails

Description	Value
Description:	Maximal auto email responses to own email-address a day (Loop-Protection).
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'PostmasterMaxEmails'} = '40';</pre>

PostMasterMaxEmailSize

Description	Value
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:	<pre>\$Self->{'PostMasterMaxEmailSize'} = '16384';</pre>

PostMasterReconnectMessage

Description	Value
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

Description	Value
Config-Setting:	<code>\$Self->{'PostMasterReconnectMessage'} = '20';</code>

LoopProtectionModule

Description	Value
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>

LoopProtectionLog

Description	Value
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>

PostmasterAutoHTML2Text

Description	Value
Description:	Converts HTML mails into text messages.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostmasterAutoHTML2Text'} = '1';</code>

PostmasterFollowUpSearchInReferences

Description	Value
Description:	Executes follow up checks on In-Reply-To or References headers for mails that don't have a ticket number in the subject.

Description	Value
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostmasterFollowUpSearchInReferences'} = '0';</code>

PostmasterFollowUpSearchInBody

Description	Value
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>

PostmasterFollowUpSearchInAttachment

Description	Value
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>

PostmasterFollowUpSearchInRaw

Description	Value
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

Description	Value
Config-Setting:	<code>\$Self->{'PostmasterFollowUpSearchInRaw'} = '0';</code>

PostmasterUserID

Description	Value
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>

PostmasterDefaultQueue

Description	Value
Description:	Defines the postmaster default queue.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostmasterDefaultQueue'} = 'Raw';</code>

PostmasterDefaultPriority

Description	Value
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>

PostmasterDefaultState

Description	Value
Description:	Defines the default state of new tickets.
Group:	Ticket

Description	Value
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'PostmasterDefaultState'} = 'new';</code>

PostmasterFollowUpState

Description	Value
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>

PostmasterFollowUpStateClosed

Description	Value
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>

PostmasterFollowUpOnUnlockAgentNotifyOnlyToOwner

Description	Value
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>

PostmasterX-Header

Description	Value
Description:	Defines all the X-headers that should be scanned.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	<pre>\$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', 'X-Loop', 'X-Spam-Flag', 'X-Spam-Status', 'X-Spam-Level', 'X-No-Loop', 'X-Priority', 'Importance', 'X-Mailer', 'User-Agent', 'Organization', 'X-Original-To', 'Delivered-To', 'Envelope-To', 'Return-Path', 'X-OTRS-Loop', 'X-OTRS-Info', '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',</pre>

Description	Value
	'X-OTRS-SLA', 'X-OTRS-CustomerNo', 'X-OTRS-CustomerUser', 'X-OTRS-ArticleKey1', 'X-OTRS-ArticleKey2', 'X-OTRS-ArticleKey3', 'X-OTRS-ArticleValue1', 'X-OTRS-ArticleValue2', 'X-OTRS-ArticleValue3', 'X-OTRS-SenderType', 'X-OTRS-ArticleType', 'X-OTRS-TicketKey1', 'X-OTRS-TicketKey2', 'X-OTRS-TicketKey3', 'X-OTRS-TicketKey4', 'X-OTRS-TicketKey5', 'X-OTRS-TicketKey6', 'X-OTRS-TicketKey7', 'X-OTRS-TicketKey8', 'X-OTRS-TicketKey9', 'X-OTRS-TicketKey10', 'X-OTRS-TicketKey11', 'X-OTRS-TicketKey12', 'X-OTRS-TicketKey13', 'X-OTRS-TicketKey14', 'X-OTRS-TicketKey15', 'X-OTRS-TicketKey16', 'X-OTRS-TicketValue1', 'X-OTRS-TicketValue2', 'X-OTRS-TicketValue3', 'X-OTRS-TicketValue4', 'X-OTRS-TicketValue5', 'X-OTRS-TicketValue6', 'X-OTRS-TicketValue7', 'X-OTRS-TicketValue8', 'X-OTRS-TicketValue9', 'X-OTRS-TicketValue10', 'X-OTRS-TicketValue11', 'X-OTRS-TicketValue12', 'X-OTRS-TicketValue13', 'X-OTRS-TicketValue14', 'X-OTRS-TicketValue15', 'X-OTRS-TicketValue16', 'X-OTRS-TicketTime1', 'X-OTRS-TicketTime2', 'X-OTRS-TicketTime3', 'X-OTRS-TicketTime4', 'X-OTRS-TicketTime5', 'X-OTRS-TicketTime6', 'X-OTRS-FollowUp-Priority', 'X-OTRS-FollowUp-Queue', 'X-OTRS-FollowUp-Lock',

Description	Value
	<pre> 'X-OTRS-FollowUp-State', 'X-OTRS-FollowUp-State-PendingTime', 'X-OTRS-FollowUp-Type', 'X-OTRS-FollowUp-Service', 'X-OTRS-FollowUp-SLA', 'X-OTRS-FollowUp-ArticleKey1', 'X-OTRS-FollowUp-ArticleKey2', 'X-OTRS-FollowUp-ArticleKey3', 'X-OTRS-FollowUp-ArticleValue1', 'X-OTRS-FollowUp-ArticleValue2', 'X-OTRS-FollowUp-ArticleValue3', 'X-OTRS-FollowUp-SenderType', 'X-OTRS-FollowUp-ArticleType', 'X-OTRS-FollowUp-TicketKey1', 'X-OTRS-FollowUp-TicketKey2', 'X-OTRS-FollowUp-TicketKey3', 'X-OTRS-FollowUp-TicketKey4', 'X-OTRS-FollowUp-TicketKey5', 'X-OTRS-FollowUp-TicketKey6', 'X-OTRS-FollowUp-TicketKey7', 'X-OTRS-FollowUp-TicketKey8', 'X-OTRS-FollowUp-TicketKey9', 'X-OTRS-FollowUp-TicketKey10', 'X-OTRS-FollowUp-TicketKey11', 'X-OTRS-FollowUp-TicketKey12', 'X-OTRS-FollowUp-TicketKey13', 'X-OTRS-FollowUp-TicketKey14', 'X-OTRS-FollowUp-TicketKey15', 'X-OTRS-FollowUp-TicketKey16', 'X-OTRS-FollowUp-TicketValue1', 'X-OTRS-FollowUp-TicketValue2', 'X-OTRS-FollowUp-TicketValue3', 'X-OTRS-FollowUp-TicketValue4', 'X-OTRS-FollowUp-TicketValue5', 'X-OTRS-FollowUp-TicketValue6', 'X-OTRS-FollowUp-TicketValue7', 'X-OTRS-FollowUp-TicketValue8', 'X-OTRS-FollowUp-TicketValue9', 'X-OTRS-FollowUp-TicketValue10', 'X-OTRS-FollowUp-TicketValue11', 'X-OTRS-FollowUp-TicketValue12', 'X-OTRS-FollowUp-TicketValue13', 'X-OTRS-FollowUp-TicketValue14', 'X-OTRS-FollowUp-TicketValue15', 'X-OTRS-FollowUp-TicketValue16', 'X-OTRS-FollowUp-TicketTime1', 'X-OTRS-FollowUp-TicketTime2', 'X-OTRS-FollowUp-TicketTime3', 'X-OTRS-FollowUp-TicketTime4', 'X-OTRS-FollowUp-TicketTime5', 'X-OTRS-FollowUp-TicketTime6']; </pre>

PostMaster::PreFilterModule###1-Match

Description	Value
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>

PostMaster::PreFilterModule###2-Match

Description	Value
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)' }, 'Module' => 'Kernel::System::PostMaster::Filter::Match', 'Set' => { 'X-OTRS-TicketKey-1' => 'SomeNumber', 'X-OTRS-TicketValue-1' => '[***]' }, 'StopAfterMatch' => '0' };</pre>

PostMaster::PreFilterModule###3-NewTicketReject

Description	Value
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>

PostMaster::PreFilterModule::NewTicketReject::Sender

Description	Value
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>

PostMaster::PreFilterModule::NewTicketReject::Subject

Description	Value
Description:	Defines the subject for rejected emails.
Group:	Ticket
SubGroup:	Core::PostMaster
Valid:	1
Required:	1
Config-Setting:	

Description	Value
	<pre>\$Self->{'PostMaster::PreFilterModule::NewTicketReject::Subject'} = 'Email Rejected';</pre>

PostMaster::PreFilterModule::NewTicketReject::Body

Description	Value
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>

PostMaster::PreFilterModule###4-CMD

Description	Value
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>

PostMaster::PreFilterModule###5-SpamAssassin

Description	Value
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>

PostMaster::PreFilterModule###6-SpamAssassin

Description	Value
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>

PostMaster::PreFilterModule###000-MatchDBSource

Description	Value
Description:	Module to use database filter storage.
Group:	Ticket
SubGroup:	Core::PostMaster

Description	Value
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'PostMaster::PreFilterModule'}->{'000-MatchDBSource'} = { 'Module' => 'Kernel::System::PostMaster::Filter::MatchDBSource' };</pre>

PostMaster::PostFilterModule###000-FollowUpArticleTypeCheck

Description	Value
Description:	Module to check if arrived emails should be marked as email-internal (because of original forwarded internal email it college). 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>

SendNoAutoResponseRegExp

Description	Value
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>

Core::Stats

Stats::DynamicObjectRegistration###Ticket

Description	Value
Description:	Module to generate ticket statistics.

Description	Value
Group:	Ticket
SubGroup:	Core::Stats
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Stats::DynamicObjectRegistration'}- >{'Ticket'} = { 'Module' => 'Kernel::System::Stats::Dynamic::Ticket' };</pre>

Stats::DynamicObjectRegistration###TicketList

Description	Value
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>

Stats::DynamicObjectRegistration###TicketAccountedTime

Description	Value
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>

Stats::DynamicObjectRegistration###TicketSolutionResponseTime

Description	Value
Description:	Module to generate ticket solution and response time statistics.

Description	Value
Group:	Ticket
SubGroup:	Core::Stats
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Stats::DynamicObjectRegistration'}- >{'TicketSolutionResponseTime'} = { 'Module' => 'Kernel::System::Stats::Dynamic::TicketSolutionResponseTime' };</pre>

Core::Ticket

Ticket::Hook

Description	Value
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:	<pre>\$Self->{'Ticket::Hook'} = 'Ticket#';</pre>

Ticket::HookDivider

Description	Value
Description:	The divider between TicketHook and ticket number. E.g ':'.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::HookDivider'} = '';</pre>

Ticket::SubjectSize

Description	Value
Description:	Max size of the subjects in an email reply.
Group:	Ticket
SubGroup:	Core::Ticket

Description	Value
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::SubjectSize'} = '100';</code>

Ticket::SubjectRe

Description	Value
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>

Ticket::SubjectFwd

Description	Value
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>

Ticket::SubjectFormat

Description	Value
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:	

Description	Value
	<code>\$Self->{'Ticket::SubjectFormat'} = 'Left';</code>

Ticket::CustomQueue

Description	Value
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>

Ticket::NewArticleIgnoreSystemSender

Description	Value
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>

Ticket::ChangeOwnerToEveryone

Description	Value
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>

Ticket::Responsible

Description	Value
Description:	Enables ticket responsible feature, to keep track of a specific ticket.

Description	Value
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Responsible'} = '0';</code>

Ticket::ResponsibleAutoSet

Description	Value
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>

Ticket::Type

Description	Value
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>

Ticket::Service

Description	Value
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>

Ticket::ArchiveSystem

Description	Value
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>

Ticket::NumberGenerator

Description	Value
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>

Ticket::NumberGenerator::MinCounterSize

Description	Value
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

Description	Value
Config-Setting:	<pre>\$Self->{'Ticket::NumberGenerator::MinCounterSize'} = '5';</pre>

Ticket::NumberGenerator::CheckSystemID

Description	Value
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:	<pre>\$Self->{'Ticket::NumberGenerator::CheckSystemID'} = '1';</pre>

Ticket::CounterLog

Description	Value
Description:	Log file for the ticket counter.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::CounterLog'} = '<OTRS_CONFIG_Home>/var/log/TicketCounter.log';</pre>

Ticket::IndexModule

Description	Value
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:	

Description	Value
	<code>\$Self->{'Ticket::IndexModule'} = 'Kernel::System::Ticket::IndexAccelerator::RuntimeDB';</code>

Ticket::StorageModule

Description	Value
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>

ArticleDir

Description	Value
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>

Ticket::EventModulePost###100-ArchiveRestore

Description	Value
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'} = {</code>

Description	Value
	<pre>'Event' => 'TicketStateUpdate', 'Module' => 'Kernel::System::Ticket::Event::ArchiveRestore' };</pre>

Ticket::EventModulePost###110-AcceleratorUpdate

Description	Value
Description:	Updates the ticket index accelerator.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::EventModulePost'}->{'110-AcceleratorUpdate'} = { 'Event' => 'TicketStateUpdate TicketQueueUpdate TicketLockUpdate', 'Module' => 'Kernel::System::Ticket::Event::TicketAcceleratorUpdate' };</pre>

Ticket::EventModulePost###120-ForceOwnerResetOnMove

Description	Value
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:	<pre>\$Self->{'Ticket::EventModulePost'}->{'120-ForceOwnerResetOnMove'} = { 'Event' => 'TicketQueueUpdate', 'Module' => 'Kernel::System::Ticket::Event::ForceOwnerReset' };</pre>

Ticket::EventModulePost###130-ForceStateChangeOnLock

Description	Value
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

Description	Value
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>

Ticket::EventModulePost###140-ResponsibleAutoSet

Description	Value
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>

Ticket::EventModulePost###150-TicketPendingTimeReset

Description	Value
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>

Ticket::EventModulePost###500-NotificationEvent

Description	Value
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' => '', 'Module' => 'Kernel::System::Ticket::Event::NotificationEvent', 'Transaction' => '1' };</pre>

Ticket::EventModulePost###900-EscalationIndex

Description	Value
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>

Ticket::EventModulePost###910-ForceUnlockOnMove

Description	Value
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'} = {</pre>

Description	Value
	<pre>'Event' => 'TicketQueueUpdate', 'Module' => 'Kernel::System::Ticket::Event::ForceUnlock' };</pre>

Ticket::EventModulePost###920-TicketArticleNewMessageUpdate

Description	Value
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>

Ticket::CustomModule###001-CustomModule

Description	Value
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:	<pre>\$Self->{'Ticket::CustomModule'}->{'001- CustomModule'} = 'Kernel::System::Ticket::Custom';</pre>

Ticket::ViewableSenderTypes

Description	Value
Description:	Defines the default viewable sender types of a ticket (default: customer).
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	

Description	Value
	<pre>\$Self->{'Ticket::ViewableSenderTypes'} = ['\customer\'];</pre>

Ticket::ViewableLocks

Description	Value
Description:	Defines the viewable locks of a ticket. Default: unlock, tmp_lock.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::ViewableLocks'} = ['\unlock\' , '\tmp_lock\'];</pre>

Ticket::ViewableStateType

Description	Value
Description:	Defines the valid state types for a ticket.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::ViewableStateType'} = ['new', 'open', 'pending reminder', 'pending auto'];</pre>

Ticket::UnlockStateType

Description	Value
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:	

Description	Value
	<pre>\$Self->{'Ticket::UnlockStateType'} = ['new', 'open'];</pre>

Ticket::PendingNotificationOnlyToOwner

Description	Value
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>

Ticket::PendingNotificationNotToResponsible

Description	Value
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>

Ticket::PendingReminderStateType

Description	Value
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>

Ticket::PendingAutoStateType

Description	Value
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>

Ticket::StateAfterPending

Description	Value
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>

System::Permission

Description	Value
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',</pre>

Description	Value
	<pre>'create', 'note', 'owner', 'priority', 'rw'];</pre>

Ticket::Permission###1-OwnerCheck

Description	Value
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>

Ticket::Permission###2-ResponsibleCheck

Description	Value
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>

Ticket::Permission###3-GroupCheck

Description	Value
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.

Description	Value
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>

Ticket::Permission###4-WatcherCheck

Description	Value
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>

CustomerTicket::Permission###1-GroupCheck

Description	Value
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',</pre>

Description	Value
	<code>'Required' => '1'</code> <code>};</code>

CustomerTicket::Permission###2-CustomerUserIDCheck

Description	Value
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>

CustomerTicket::Permission###3-CustomerIDCheck

Description	Value
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>

Ticket::DefineEmailFrom

Description	Value
Description:	Defines how the From field from the emails (sent from answers and email tickets) should look like.
Group:	Ticket

Description	Value
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::DefineEmailFrom'} = 'SystemAddressName';</code>

Ticket::DefineEmailFromSeparator

Description	Value
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>

CustomerNotifyJustToRealCustomer

Description	Value
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>

AgentSelfNotifyOnAction

Description	Value
Description:	Specifies if an agent should receive email notification of his own actions.
Group:	Ticket
SubGroup:	Core::Ticket
Valid:	1
Required:	1
Config-Setting:	

Description	Value
	<code>\$Self->{'AgentSelfNotifyOnAction'} = '0';</code>

Core::TicketACL

Ticket::Acl::Module###1-Ticket::Acl::Module

Description	Value
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>

TicketACL::Default::Action

Description	Value
Description:	Default ACL values for ticket actions.
Group:	Ticket
SubGroup:	Core::TicketACL
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TicketACL::Default::Action'} = {};</code>

Core::TicketBulkAction

Ticket::Frontend::BulkFeature

Description	Value
Description:	Enables ticket bulk action feature for the agent frontend to work on more than one ticket at a time.
Group:	Ticket

Description	Value
SubGroup:	Core::TicketBulkAction
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::BulkFeature'} = '1';</code>

Ticket::Frontend::BulkFeatureGroup

Description	Value
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>

Core::TicketFreeText

TicketFreeKey1

Description	Value
Description:	Defines the free key field number 1 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeKey1'} = { 'Product' => 'Product' };</code>

TicketFreeKey1::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 1 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText

Description	Value
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeKey1::DefaultSelection'} = '';</code>

TicketFreeText1

Description	Value
Description:	Defines the free text field number 1 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText1'} = { '-' => '-', 'Notebook' => 'Notebook', 'PC' => 'PC', 'Phone' => 'Phone' };</pre>

TicketFreeText1::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 1 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText1::DefaultSelection'} = 'Notebook';</pre>

TicketFreeText1::Link

Description	Value
Description:	Defines the http link for the free text field number 1 for tickets (it will be used in every ticket view).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0

Description	Value
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText1::Link'} = 'http://some.example.com/handle?query= \$LQData{"TicketFreeText1"}';</pre>

TicketFreeKey2

Description	Value
Description:	Defines the free key field number 2 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey2'} = { 'Product' => 'Product' };</pre>

TicketFreeKey2::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 2 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey2::DefaultSelection'} = '';</pre>

TicketFreeText2

Description	Value
Description:	Defines the free text field number 2 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText2'} = {</pre>

Description	Value
	<pre>' ' => '- ', 'Notebook' => 'Notebook', 'PC' => 'PC', 'Phone' => 'Phone' };</pre>

TicketFreeText2::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 2 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText2::DefaultSelection'} = 'Notebook';</pre>

TicketFreeText2::Link

Description	Value
Description:	Defines the http link for the free text field number 2 for tickets (it will be used in every ticket view).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText2::Link'} = 'http://some.example.com/handle?query= \$LQData{"TicketFreeText2"}';</pre>

TicketFreeKey3

Description	Value
Description:	Defines the free key field number 3 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey3'} = {</pre>

Description	Value
	<code>'Product' => 'Product'</code> <code>};</code>

TicketFreeKey3::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 3 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeKey3::DefaultSelection'} = '';</code>

TicketFreeText3

Description	Value
Description:	Defines the free text field number 3 for ticket to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeText3'} = {</code> <code> '-' => '-',</code> <code> 'Notebook' => 'Notebook',</code> <code> 'PC' => 'PC',</code> <code> 'Phone' => 'Phone'</code> <code>};</code>

TicketFreeText3::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 3 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeText3::DefaultSelection'} =</code> <code>'Notebook';</code>

TicketFreeText3::Link

Description	Value
Description:	Defines the http link for the free text field number 3 for tickets (it will be used in every ticket view).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText3::Link'} = 'http://some.example.com/handle?query= \$LQData{"TicketFreeText3"}';</pre>

TicketFreeKey4

Description	Value
Description:	Defines the free key field number 4 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey4'} = { 'Product' => 'Product' };</pre>

TicketFreeKey4::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 4 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey4::DefaultSelection'} = '';</pre>

TicketFreeText4

Description	Value
Description:	Defines the free text field number 4 for tickets to add a new ticket attribute.

Description	Value
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText4'} = { ' ' => ' ', 'Notebook' => 'Notebook', 'PC' => 'PC', 'Phone' => 'Phone' };</pre>

TicketFreeText4::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 4 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText4::DefaultSelection'} = 'Notebook';</pre>

TicketFreeText4::Link

Description	Value
Description:	Defines the http link for the free text field number 4 for tickets (it will be used in every ticket view).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText4::Link'} = 'http://some.example.com/handle?query= \$LQData{"TicketFreeText4"}';</pre>

TicketFreeKey5

Description	Value
Description:	Defines the free key field number 5 for tickets to add a new ticket attribute.

Description	Value
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey5'} = { 'Product' => 'Product' };</pre>

TicketFreeKey5::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 5 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey5::DefaultSelection'} = '';</pre>

TicketFreeText5

Description	Value
Description:	Defines the free text field number 5 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText5'} = { '-' => '-', 'Notebook' => 'Notebook', 'PC' => 'PC', 'Phone' => 'Phone' };</pre>

TicketFreeText5::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 5 for tickets (if more than one option is provided).
Group:	Ticket

Description	Value
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeText5::DefaultSelection'} = 'Notebook';</code>

TicketFreeText5::Link

Description	Value
Description:	Defines the http link for the free text field number 5 for tickets (it will be used in every ticket view).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeText5::Link'} = 'http://some.example.com/handle?query=\$LQData{"TicketFreeText5"}';</code>

TicketFreeKey6

Description	Value
Description:	Defines the free key field number 6 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeKey6'} = { 'Product' => 'Product' };</code>

TicketFreeKey6::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 6 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0

Description	Value
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeKey6::DefaultSelection'} = '';</code>

TicketFreeText6

Description	Value
Description:	Defines the free text field number 6 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText6'} = { '-' => '-', 'Notebook' => 'Notebook', 'PC' => 'PC', 'Phone' => 'Phone' };</pre>

TicketFreeText6::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 6 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText6::DefaultSelection'} = 'Notebook';</pre>

TicketFreeText6::Link

Description	Value
Description:	Defines the http link for the free text field number 6 for tickets (it will be used in every ticket view).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0

Description	Value
Config-Setting:	<pre>\$Self->{'TicketFreeText6::Link'} = 'http://some.example.com/handle?query= \$LQData{"TicketFreeText6"}';</pre>

TicketFreeKey7

Description	Value
Description:	Defines the free key field number 7 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey7'} = { 'Product' => 'Product' };</pre>

TicketFreeKey7::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 7 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey7::DefaultSelection'} = '';</pre>

TicketFreeText7

Description	Value
Description:	Defines the free text field number 7 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText7'} = { '' => '-',</pre>

Description	Value
	<pre>'Notebook' => 'Notebook', 'PC' => 'PC', 'Phone' => 'Phone' };</pre>

TicketFreeText7::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 7 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText7::DefaultSelection'} = 'Notebook';</pre>

TicketFreeText7::Link

Description	Value
Description:	Defines the http link for the free text field number 7 for tickets (it will be used in every ticket view).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText7::Link'} = 'http://some.example.com/handle?query= \$LQData{"TicketFreeText7"}';</pre>

TicketFreeKey8

Description	Value
Description:	Defines the free key field number 8 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey8'} = { 'Product' => 'Product'</pre>

Description	Value
	<code>};</code>

TicketFreeKey8::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 8 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeKey8::DefaultSelection'} = '';</code>

TicketFreeText8

Description	Value
Description:	Defines the free text field number 8 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeText8'} = { '' => '-', 'Notebook' => 'Notebook', 'PC' => 'PC', 'Phone' => 'Phone' };</code>

TicketFreeText8::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 8 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeText8::DefaultSelection'} = 'Notebook';</code>

TicketFreeText8::Link

Description	Value
Description:	Defines the http link for the free text field number 8 for tickets (it will be used in every ticket view).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText8::Link'} = 'http://some.example.com/handle?query= \$LQData{"TicketFreeText8"}';</pre>

TicketFreeKey9

Description	Value
Description:	Defines the free key field number 9 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey9'} = { 'Product' => 'Product' };</pre>

TicketFreeKey9::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 9 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey9::DefaultSelection'} = '';</pre>

TicketFreeText9

Description	Value
Description:	Defines the free text field number 9 for tickets to add a new ticket attribute.

Description	Value
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText9'} = { '-' => '-', 'Notebook' => 'Notebook', 'PC' => 'PC', 'Phone' => 'Phone' };</pre>

TicketFreeText9::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 9 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText9::DefaultSelection'} = 'Notebook';</pre>

TicketFreeText9::Link

Description	Value
Description:	Defines the http link for the free text field number 9 for tickets (it will be used in every ticket view).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText9::Link'} = 'http://some.example.com/handle?query= \$LQData{"TicketFreeText9"}';</pre>

TicketFreeKey10

Description	Value
Description:	Defines the free key field number 10 for tickets to add a new ticket attribute.

Description	Value
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey10'} = { 'Product' => 'Product' };</pre>

TicketFreeKey10::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 10 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey10::DefaultSelection'} = '';</pre>

TicketFreeText10

Description	Value
Description:	Defines the free text field number 10 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText10'} = { '' => '-', 'Notebook' => 'Notebook', 'PC' => 'PC', 'Phone' => 'Phone' };</pre>

TicketFreeText10::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 10 for tickets (if more than one option is provided).

Description	Value
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText10::DefaultSelection'} = 'Notebook';</pre>

TicketFreeText10::Link

Description	Value
Description:	Defines the http link for the free text field number 10 for tickets (it will be used in every ticket view).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText10::Link'} = 'http://some.example.com/handle?query= \$LQData{"TicketFreeText10"}';</pre>

TicketFreeKey11

Description	Value
Description:	Defines the free key field number 11 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey11'} = { 'Product' => 'Product' };</pre>

TicketFreeKey11::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 11 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText

Description	Value
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeKey11::DefaultSelection'} = '';</code>

TicketFreeText11

Description	Value
Description:	Defines the free text field number 11 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeText11'} = { ' ' => ' ', 'Notebook' => 'Notebook', 'PC' => 'PC', 'Phone' => 'Phone' };</code>

TicketFreeText11::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 11 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeText11::DefaultSelection'} = 'Notebook';</code>

TicketFreeText11::Link

Description	Value
Description:	Defines the http link for the free text field number 11 for tickets (it will be used in every ticket view).
Group:	Ticket
SubGroup:	Core::TicketFreeText

Description	Value
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText11::Link'} = 'http://some.example.com/handle?query= \$LQData{"TicketFreeText11"}';</pre>

TicketFreeKey12

Description	Value
Description:	Defines the free key field number 12 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey12'} = { 'Product' => 'Product' };</pre>

TicketFreeKey12::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 12 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey12::DefaultSelection'} = '';</pre>

TicketFreeText12

Description	Value
Description:	Defines the free text field number 12 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0

Description	Value
Config-Setting:	<pre> \$Self->{'TicketFreeText12'} = { '-' => '-', 'Notebook' => 'Notebook', 'PC' => 'PC', 'Phone' => 'Phone' }; </pre>

TicketFreeText12::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 12 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre> \$Self->{'TicketFreeText12::DefaultSelection'} = 'Notebook'; </pre>

TicketFreeText12::Link

Description	Value
Description:	Defines the http link for the free text field number 12 for tickets (it will be used in every ticket view).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre> \$Self->{'TicketFreeText12::Link'} = 'http://some.example.com/handle?query= \$LQData{"TicketFreeText12"}'; </pre>

TicketFreeKey13

Description	Value
Description:	Defines the free key field number 13 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0

Description	Value
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey13'} = { 'Product' => 'Product' };</pre>

TicketFreeKey13::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 13 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey13::DefaultSelection'} = '';</pre>

TicketFreeText13

Description	Value
Description:	Defines the free text field number 13 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText13'} = { '-' => '-', 'Notebook' => 'Notebook', 'PC' => 'PC', 'Phone' => 'Phone' };</pre>

TicketFreeText13::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 13 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0

Description	Value
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText13::DefaultSelection'} = 'Notebook';</pre>

TicketFreeText13::Link

Description	Value
Description:	Defines the http link for the free text field number 13 for tickets (it will be used in every ticket view).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText13::Link'} = 'http://some.example.com/handle?query=\$LQData{"TicketFreeText13"}';</pre>

TicketFreeKey14

Description	Value
Description:	Defines the free key field number 14 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey14'} = { 'Product' => 'Product' };</pre>

TicketFreeKey14::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 14 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	

Description	Value
	<code>\$Self->{'TicketFreeKey14::DefaultSelection'} = '';</code>

TicketFreeText14

Description	Value
Description:	Defines the free text field number 14 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText14'} = { '-' => '-', 'Notebook' => 'Notebook', 'PC' => 'PC', 'Phone' => 'Phone' };</pre>

TicketFreeText14::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 14 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText14::DefaultSelection'} = 'Notebook';</pre>

TicketFreeText14::Link

Description	Value
Description:	Defines the http link for the free text field number 14 for tickets (it will be used in every ticket view).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	

Description	Value
	<pre>\$Self->{'TicketFreeText14::Link'} = 'http://some.example.com/handle?query= \$LQData{"TicketFreeText14"}';</pre>

TicketFreeKey15

Description	Value
Description:	Defines the free key field number 15 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey15'} = { 'Product' => 'Product' };</pre>

TicketFreeKey15::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 15 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey15::DefaultSelection'} = '';</pre>

TicketFreeText15

Description	Value
Description:	Defines the free text field number 15 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText15'} = { '' => '-',</pre>

Description	Value
	<pre>'Notebook' => 'Notebook', 'PC' => 'PC', 'Phone' => 'Phone' };</pre>

TicketFreeText15::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 15 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText15::DefaultSelection'} = 'Notebook';</pre>

TicketFreeText15::Link

Description	Value
Description:	Defines the http link for the free text field number 15 for tickets (it will be used in every ticket view).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText15::Link'} = 'http://some.example.com/handle?query= \$LQData{"TicketFreeText15"}';</pre>

TicketFreeKey16

Description	Value
Description:	Defines the free key field number 16 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeKey16'} = { 'Product' => 'Product'</pre>

Description	Value
	<code>};</code>

TicketFreeKey16::DefaultSelection

Description	Value
Description:	Defines the default selection of the free key field number 16 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeKey16::DefaultSelection'} = '';</code>

TicketFreeText16

Description	Value
Description:	Defines the free text field number 16 for tickets to add a new ticket attribute.
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeText16'} = { ' ' => ' ', 'Notebook' => 'Notebook', 'PC' => 'PC', 'Phone' => 'Phone' };</code>

TicketFreeText16::DefaultSelection

Description	Value
Description:	Defines the default selection of the free text field number 16 for tickets (if more than one option is provided).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeText16::DefaultSelection'} = 'Notebook';</code>

TicketFreeText16::Link

Description	Value
Description:	Defines the http link for the free text field number 16 for tickets (it will be used in every ticket view).
Group:	Ticket
SubGroup:	Core::TicketFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeText16::Link'} = 'http://some.example.com/handle?query= \$LQData{"TicketFreeText16"}';</pre>

Core::TicketFreeTextDefault

Ticket::EventModulePost###TicketFreeFieldDefault

Description	Value
Description:	Event module registration. For more performance you can define a trigger event (e. g. Event => TicketCreate). This is only possible if all TicketFreeField elements need the same event.
Group:	Ticket
SubGroup:	Core::TicketFreeTextDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::EventModulePost'}- >{'TicketFreeFieldDefault'} = { 'Module' => 'Kernel::System::Ticket::Event::TicketFreeFieldDefault', 'Transaction' => '1' };</pre>

Ticket::TicketFreeFieldDefault###Element1

Description	Value
Description:	Configures a default TicketFreeField setting. "Counter" defines the free text field which should be used, "Key" is the TicketFreeKey, "Value" is the TicketFreeText and "Event" defines the trigger event. Please check the developer manual (http://doc.ots.org/), chapter "Ticket Event Module".
Group:	Ticket
SubGroup:	Core::TicketFreeTextDefault
Valid:	0
Required:	0

Description	Value
Config-Setting:	<pre> \$Self->{'Ticket::TicketFreeFieldDefault'}- >{'Element1'} = { 'Counter' => '1', 'Event' => 'TicketCreate', 'Key' => 'TicketType', 'Value' => 'Default' }; </pre>

Ticket::TicketFreeFieldDefault###Element2

Description	Value
Description:	Configures a default TicketFreeField setting. "Counter" defines the free text field which should be used, "Key" is the TicketFreeKey, "Value" is the TicketFreeText and "Event" defines the trigger event.
Group:	Ticket
SubGroup:	Core::TicketFreeTextDefault
Valid:	0
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::TicketFreeFieldDefault'}- >{'Element2'} = { 'Counter' => '', 'Event' => '', 'Key' => '', 'Value' => '' }; </pre>

Ticket::TicketFreeFieldDefault###Element3

Description	Value
Description:	Configures a default TicketFreeField setting. "Counter" defines the free text field which should be used, "Key" is the TicketFreeKey, "Value" is the TicketFreeText and "Event" defines the trigger event.
Group:	Ticket
SubGroup:	Core::TicketFreeTextDefault
Valid:	0
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::TicketFreeFieldDefault'}- >{'Element3'} = { 'Counter' => '', 'Event' => '', 'Key' => '', 'Value' => '' }; </pre>

Ticket::TicketFreeFieldDefault###Element4

Description	Value
Description:	Configures a default TicketFreeField setting. "Counter" defines the free text field which should be used, "Key" is the TicketFreeKey, "Value" is the TicketFreeText and "Event" defines the trigger event.
Group:	Ticket
SubGroup:	Core::TicketFreeTextDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketFreeFieldDefault'}- >{'Element4'} = { 'Counter' => '', 'Event' => '', 'Key' => '', 'Value' => '' };</pre>

Ticket::TicketFreeFieldDefault###Element5

Description	Value
Description:	Configures a default TicketFreeField setting. "Counter" defines the free text field which should be used, "Key" is the TicketFreeKey, "Value" is the TicketFreeText and "Event" defines the trigger event.
Group:	Ticket
SubGroup:	Core::TicketFreeTextDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketFreeFieldDefault'}- >{'Element5'} = { 'Counter' => '', 'Event' => '', 'Key' => '', 'Value' => '' };</pre>

Ticket::TicketFreeFieldDefault###Element6

Description	Value
Description:	Configures a default TicketFreeField setting. "Counter" defines the free text field which should be used, "Key" is the TicketFreeKey, "Value" is the TicketFreeText and "Event" defines the trigger event.
Group:	Ticket
SubGroup:	Core::TicketFreeTextDefault
Valid:	0

Description	Value
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketFreeFieldDefault'}- >{'Element6'} = { 'Counter' => '', 'Event' => '', 'Key' => '', 'Value' => '' };</pre>

Ticket::TicketFreeFieldDefault###Element7

Description	Value
Description:	Configures a default TicketFreeField setting. "Counter" defines the free text field which should be used, "Key" is the TicketFreeKey, "Value" is the TicketFreeText and "Event" defines the trigger event.
Group:	Ticket
SubGroup:	Core::TicketFreeTextDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketFreeFieldDefault'}- >{'Element7'} = { 'Counter' => '', 'Event' => '', 'Key' => '', 'Value' => '' };</pre>

Ticket::TicketFreeFieldDefault###Element8

Description	Value
Description:	Configures a default TicketFreeField setting. "Counter" defines the free text field which should be used, "Key" is the TicketFreeKey, "Value" is the TicketFreeText and "Event" defines the trigger event.
Group:	Ticket
SubGroup:	Core::TicketFreeTextDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketFreeFieldDefault'}- >{'Element8'} = { 'Counter' => '', 'Event' => '', 'Key' => '', 'Value' => '' };</pre>

Ticket::TicketFreeFieldDefault###Element9

Description	Value
Description:	Configures a default TicketFreeField setting. "Counter" defines the free text field which should be used, "Key" is the TicketFreeKey, "Value" is the TicketFreeText and "Event" defines the trigger event.
Group:	Ticket
SubGroup:	Core::TicketFreeTextDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketFreeFieldDefault'}- >{'Element9'} = { 'Counter' => '', 'Event' => '', 'Key' => '', 'Value' => '' };</pre>

Ticket::TicketFreeFieldDefault###Element10

Description	Value
Description:	Configures a default TicketFreeField setting. "Counter" defines the free text field which should be used, "Key" is the TicketFreeKey, "Value" is the TicketFreeText and "Event" defines the trigger event.
Group:	Ticket
SubGroup:	Core::TicketFreeTextDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketFreeFieldDefault'}- >{'Element10'} = { 'Counter' => '', 'Event' => '', 'Key' => '', 'Value' => '' };</pre>

Ticket::TicketFreeFieldDefault###Element11

Description	Value
Description:	Configures a default TicketFreeField setting. "Counter" defines the free text field which should be used, "Key" is the TicketFreeKey, "Value" is the TicketFreeText and "Event" defines the trigger event.
Group:	Ticket
SubGroup:	Core::TicketFreeTextDefault
Valid:	0

Description	Value
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::TicketFreeFieldDefault'}- >{'Element11'} = { 'Counter' => '', 'Event' => '', 'Key' => '', 'Value' => '' }; </pre>

Ticket::TicketFreeFieldDefault###Element12

Description	Value
Description:	Configures a default TicketFreeField setting. "Counter" defines the free text field which should be used, "Key" is the TicketFreeKey, "Value" is the TicketFreeText and "Event" defines the trigger event.
Group:	Ticket
SubGroup:	Core::TicketFreeTextDefault
Valid:	0
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::TicketFreeFieldDefault'}- >{'Element12'} = { 'Counter' => '', 'Event' => '', 'Key' => '', 'Value' => '' }; </pre>

Ticket::TicketFreeFieldDefault###Element13

Description	Value
Description:	Configures a default TicketFreeField setting. "Counter" defines the free text field which should be used, "Key" is the TicketFreeKey, "Value" is the TicketFreeText and "Event" defines the trigger event.
Group:	Ticket
SubGroup:	Core::TicketFreeTextDefault
Valid:	0
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::TicketFreeFieldDefault'}- >{'Element13'} = { 'Counter' => '', 'Event' => '', 'Key' => '', 'Value' => '' }; </pre>

Description	Value
	};

Ticket::TicketFreeFieldDefault###Element14

Description	Value
Description:	Configures a default TicketFreeField setting. "Counter" defines the free text field which should be used, "Key" is the TicketFreeKey, "Value" is the TicketFreeText and "Event" defines the trigger event.
Group:	Ticket
SubGroup:	Core::TicketFreeTextDefault
Valid:	0
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::TicketFreeFieldDefault'}- >{'Element14'} = { 'Counter' => '', 'Event' => '', 'Key' => '', 'Value' => '' }; </pre>

Ticket::TicketFreeFieldDefault###Element15

Description	Value
Description:	Configures a default TicketFreeField setting. "Counter" defines the free text field which should be used, "Key" is the TicketFreeKey, "Value" is the TicketFreeText and "Event" defines the trigger event.
Group:	Ticket
SubGroup:	Core::TicketFreeTextDefault
Valid:	0
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::TicketFreeFieldDefault'}- >{'Element15'} = { 'Counter' => '', 'Event' => '', 'Key' => '', 'Value' => '' }; </pre>

Ticket::TicketFreeFieldDefault###Element16

Description	Value
Description:	Configures a default TicketFreeField setting. "Counter" defines the free text field which should be used, "Key" is the TicketFreeKey, "Value" is the TicketFreeText and "Event" defines the trigger event.

Description	Value
Group:	Ticket
SubGroup:	Core::TicketFreeTextDefault
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::TicketFreeFieldDefault'}- >{'Element16'} = { 'Counter' => '', 'Event' => '', 'Key' => '', 'Value' => '' };</pre>

Core::TicketFreeTime

TicketFreeTimeKey1

Description	Value
Description:	Defines the free time key field number 1 for tickets.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TicketFreeTimeKey1'} = 'Time1';</pre>

TicketFreeTimeOptional1

Description	Value
Description:	Defines whether the free time field number 1 is optional or not.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'TicketFreeTimeOptional1'} = '1';</pre>

TicketFreeTimeDiff1

Description	Value
Description:	Defines the difference from now (in seconds) of the free time field number 1's default value.
Group:	Ticket

Description	Value
SubGroup:	Core::TicketFreeTime
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeTimeDiff1'} = '0';</code>

TicketFreeTimePeriod1

Description	Value
Description:	Defines the years (in future and in past) which can get selected in free time field number 1.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeTimePeriod1'} = { 'YearPeriodFuture' => '5', 'YearPeriodPast' => '5' };</code>

TicketFreeTimeKey2

Description	Value
Description:	Defines the free time key field number 2 for tickets.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TicketFreeTimeKey2'} = 'Time2';</code>

TicketFreeTimeOptional2

Description	Value
Description:	Defines whether the free time field number 2 is optional or not.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TicketFreeTimeOptional2'} = '1';</code>

TicketFreeTimeDiff2

Description	Value
Description:	Defines the difference from now (in seconds) of the free time field number 2's default value.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeTimeDiff2'} = '0';</code>

TicketFreeTimePeriod2

Description	Value
Description:	Defines the years (in future and in past) which can get selected in free time field number 2.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeTimePeriod2'} = { 'YearPeriodFuture' => '5', 'YearPeriodPast' => '5' };</code>

TicketFreeTimeKey3

Description	Value
Description:	Defines the free time key field number 3 for tickets.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TicketFreeTimeKey3'} = 'Time3';</code>

TicketFreeTimeOptional3

Description	Value
Description:	Defines whether the free time field number 3 is optional or not.
Group:	Ticket

Description	Value
SubGroup:	Core::TicketFreeTime
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TicketFreeTimeOptional3'} = '1';</code>

TicketFreeTimeDiff3

Description	Value
Description:	Defines the difference from now (in seconds) of the free time field number 3's default value.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeTimeDiff3'} = '0';</code>

TicketFreeTimePeriod3

Description	Value
Description:	Defines the years (in future and in past) which can get selected in free time field number 3.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeTimePeriod3'} = { 'YearPeriodFuture' => '5', 'YearPeriodPast' => '5' };</code>

TicketFreeTimeKey4

Description	Value
Description:	Defines the free time key field number 4 for tickets.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	1
Required:	1
Config-Setting:	

Description	Value
	<code>\$Self->{'TicketFreeTimeKey4'} = 'Time4';</code>

TicketFreeTimeOptional4

Description	Value
Description:	Defines whether the free time field number 4 is optional or not.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TicketFreeTimeOptional4'} = '1';</code>

TicketFreeTimeDiff4

Description	Value
Description:	Defines the difference from now (in seconds) of the free time field number 4's default value.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeTimeDiff4'} = '0';</code>

TicketFreeTimePeriod4

Description	Value
Description:	Defines the years (in future and in past) which can get selected in free time field number 4.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeTimePeriod4'} = { 'YearPeriodFuture' => '5', 'YearPeriodPast' => '5' };</code>

TicketFreeTimeKey5

Description	Value
Description:	Defines the free time key field number 5 for tickets.

Description	Value
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TicketFreeTimeKey5'} = 'Time5';</code>

TicketFreeTimeOptional5

Description	Value
Description:	Defines whether the free time field number 5 is optional or not.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TicketFreeTimeOptional5'} = '1';</code>

TicketFreeTimeDiff5

Description	Value
Description:	Defines the difference from now (in seconds) of the free time field number 5's default value.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeTimeDiff5'} = '0';</code>

TicketFreeTimePeriod5

Description	Value
Description:	Defines the years (in future and in past) which can get selected in free time field number 5.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeTimePeriod5'} = { 'YearPeriodFuture' => '5', 'YearPeriodPast' => '5'</code>

Description	Value
	<code>};</code>

TicketFreeTimeKey6

Description	Value
Description:	Defines the free time key field number 6 for tickets.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TicketFreeTimeKey6'} = 'Time6';</code>

TicketFreeTimeOptional6

Description	Value
Description:	Defines whether the free time field number 6 is optional or not.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'TicketFreeTimeOptional6'} = '1';</code>

TicketFreeTimeDiff6

Description	Value
Description:	Defines the difference from now (in seconds) of the free time field number 6's default value.
Group:	Ticket
SubGroup:	Core::TicketFreeTime
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'TicketFreeTimeDiff6'} = '0';</code>

TicketFreeTimePeriod6

Description	Value
Description:	Defines the years (in future and in past) which can get selected in free time field number 6.
Group:	Ticket
SubGroup:	Core::TicketFreeTime

Description	Value
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'TicketFreeTimePeriod6'} = { 'YearPeriodFuture' => '5', 'YearPeriodPast' => '5' };</pre>

Core::TicketWatcher

Ticket::Watcher

Description	Value
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>

Ticket::WatcherGroup

Description	Value
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>

Frontend::Admin::ModuleRegistration

Frontend::Module###AdminQueue

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Ticket

Description	Value
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' }, 'NavBarName' => 'Admin', 'Title' => 'Queue' }; </pre>

Frontend::Module###AdminResponse

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AdminResponse'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Queue', 'Description' => 'Create and manage response templates.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Responses', 'Prio' => '200' }, 'NavBarName' => 'Admin', 'Title' => 'Response' }; </pre>

Frontend::Module###AdminQueueResponses

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}-> {'AdminQueueResponses'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Queue', 'Description' => 'Link responses to queues.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Responses <-> Queues', 'Prio' => '300' }, 'NavBarName' => 'Admin', 'Title' => 'Responses <-> Queues' }; </pre>

Frontend::Module###AdminAutoResponse

Description	Value
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', </pre>

Description	Value
	<pre> 'Prio' => '400' }, 'NavBarName' => 'Admin', 'Title' => 'Auto Responses' }; </pre>

Frontend::Module###AdminQueueAutoResponse

Description	Value
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' => 'Queues <-> Auto Responses' }; </pre>

Frontend::Module###AdminAttachment

Description	Value
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' => [</pre>

Description	Value
	<pre> 'admin'], 'NavBarModule' => { 'Block' => 'Queue', 'Description' => 'Create and manage attachments.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Attachments', 'Prio' => '600' }, 'NavBarName' => 'Admin', 'Title' => 'Attachment' }; </pre>

Frontend::Module###AdminResponseAttachment

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}- >{'AdminResponseAttachment'} = { 'Description' => 'Admin', 'Group' => ['admin'], 'NavBarModule' => { 'Block' => 'Queue', 'Description' => 'Link attachments to responses templates.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Attachments <-> Responses', 'Prio' => '700' }, 'NavBarName' => 'Admin', 'Title' => 'Attachments <-> Responses' }; </pre>

Frontend::Module###AdminSalutation

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Ticket

Description	Value
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>

Frontend::Module###AdminSignature

Description	Value
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', </pre>

Description	Value
	<pre>'Title' => 'Signatures' };</pre>

Frontend::Module###AdminSystemAddress

Description	Value
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' => 'System address' };</pre>

Frontend::Module###AdminNotification

Description	Value
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' => {</pre>

Description	Value
	<pre> 'Block' => 'Ticket', 'Description' => 'Create and manage notifications that are sent to agents.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'Agent Notifications', 'Prio' => '400' }, 'NavBarName' => 'Admin', 'Title' => 'Agent Notifications' }; </pre>

Frontend::Module###AdminNotificationEvent

Description	Value
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>

Frontend::Module###AdminService

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Admin::ModuleRegistration
Valid:	1
Required:	0

Description	Value
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>

Frontend::Module###AdminSLA

Description	Value
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'], '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>

Frontend::Module###AdminType

Description	Value
Description:	Frontend module registration for the agent interface.

Description	Value
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>

Frontend::Module###AdminState

Description	Value
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>

Description	Value
	<code>};</code>

Frontend::Module###AdminPriority

Description	Value
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>

Frontend::Module###AdminGenericAgent

Description	Value
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'], 'NavBarModule' => { 'Block' => 'System', </pre>

Description	Value
	<pre>'Description' => 'Manage periodic tasks.', 'Module' => 'Kernel::Output::HTML::NavBarModuleAdmin', 'Name' => 'GenericAgent', 'Prio' => '300' }, 'NavBarName' => 'Admin', 'Title' => 'GenericAgent' };</pre>

Frontend::Agent

Ticket::Frontend::PendingDiffTime

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::PendingDiffTime'} = '86400';</pre>

Ticket::Frontend::ListType

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::ListType'} = 'tree';</pre>

Ticket::Frontend::TextAreaEmail

Description	Value
Description:	Permitted width for compose email windows.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1

Description	Value
Config-Setting:	<code>\$Self->{'Ticket::Frontend::TextAreaEmail'} = '82';</code>

Ticket::Frontend::TextAreaNote

Description	Value
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>

Ticket::Frontend::InformAgentMaxSize

Description	Value
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>

Ticket::Frontend::InvolvedAgentMaxSize

Description	Value
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>

Ticket::Frontend::CustomerInfoCompose

Description	Value
Description:	Shows the customer user information (phone and email) in the compose screen.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerInfoCompose'} = '1';</code>

Ticket::Frontend::CustomerInfoComposeMaxSize

Description	Value
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>

Ticket::Frontend::CustomerInfoZoom

Description	Value
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>

Ticket::Frontend::CustomerInfoZoomMaxSize

Description	Value
Description:	Maximum size (in characters) of the customer information table in the ticket zoom view.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1

Description	Value
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::CustomerInfoZoomMaxSize'} = '22';</pre>

Ticket::Frontend::CustomerInfoQueueMaxSize

Description	Value
Description:	Maximum size (in characters) of the customer info table in the queue view.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::CustomerInfoQueueMaxSize'} = '18';</pre>

Ticket::Frontend::AccountTime

Description	Value
Description:	Activates time accounting.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AccountTime'} = '1';</pre>

Ticket::Frontend::TimeUnits

Description	Value
Description:	Sets the preferred time units (e.g. work units, hours, minutes).
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::TimeUnits'} = ' (work units)';</pre>

Ticket::Frontend::NeedAccountedTime

Description	Value
Description:	Defines if time accounting is mandatory in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::NeedAccountedTime'} = '0';</pre>

Ticket::Frontend::BulkAccountedTime

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::BulkAccountedTime'} = '1';</pre>

Ticket::Frontend::NeedSpellCheck

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::NeedSpellCheck'} = '0';</pre>

Ticket::Frontend::NewOwnerSelection

Description	Value
Description:	Shows an owner selection in phone and email tickets in the agent interface.
Group:	Ticket

Description	Value
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::NewOwnerSelection'} = '1';</code>

Ticket::Frontend::NewResponsibleSelection

Description	Value
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>

Ticket::Frontend::NewQueueSelectionType

Description	Value
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>

Ticket::Frontend::NewQueueSelectionString

Description	Value
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

Description	Value
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::NewQueueSelectionString'} = '<Queue>';</pre>

Ticket::Frontend::NewQueueOwnSelection

Description	Value
Description:	Determines which options will be valid of the receipient (phone ticket) and the sender (email ticket) in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::NewQueueOwnSelection'} = { '1' => 'First Queue!', '2' => 'Second Queue!' };</pre>

Ticket::Frontend::ShowCustomerTickets

Description	Value
Description:	Shows customer history tickets in AgentTicketPhone, AgentTicketEmail and AgentTicketCustomer.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::ShowCustomerTickets'} = '1';</pre>

NewTicketInNewWindow::Enabled

Description	Value
Description:	If enabled, TicketPhone and TicketEmail will be open in new windows.
Group:	Ticket
SubGroup:	Frontend::Agent

Description	Value
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'NewTicketInNewWindow::Enabled'} = '0';</code>

CustomerDBLink

Description	Value
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=AgentTicketCustomer;TicketID=\$Data{"TicketID"}';</code>

CustomerDBLinkTarget

Description	Value
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>

Frontend::CommonObject###QueueObject

Description	Value
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>

Frontend::CommonObject###TicketObject

Description	Value
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:	<pre>\$Self->{'Frontend::CommonObject'}->{'TicketObject'} = 'Kernel::System::Ticket';</pre>

Frontend::CommonParam###Action

Description	Value
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:	<pre>\$Self->{'Frontend::CommonParam'}->{'Action'} = 'AgentDashboard';</pre>

Frontend::CommonParam###QueueID

Description	Value
Description:	Default queue ID used by the system in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Frontend::CommonParam'}->{'QueueID'} = '0';</pre>

Frontend::CommonParam###TicketID

Description	Value
Description:	Default ticket ID used by the system in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent

Description	Value
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Frontend::CommonParam'}->{'TicketID'} = '';</code>

Frontend::Agent::CustomerSearch

Ticket::Frontend::CustomerSearchAutoComplete###Active

Description	Value
Description:	Enables or disables the autocomplete feature for the customer search in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::CustomerSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerSearchAutoComplete'}->{'Active'} = '1';</code>

Ticket::Frontend::CustomerSearchAutoComplete###MinQueryLength

Description	Value
Description:	Sets the minimum number of characters before autocomplete query is sent.
Group:	Ticket
SubGroup:	Frontend::Agent::CustomerSearch
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::CustomerSearchAutoComplete'}->{'MinQueryLength'} = '2';</code>

Ticket::Frontend::CustomerSearchAutoComplete###QueryDelay

Description	Value
Description:	Delay time between autocomplete queries in milliseconds.
Group:	Ticket
SubGroup:	Frontend::Agent::CustomerSearch
Valid:	1

Description	Value
Required:	1
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::CustomerSearchAutoComplete'}- >{'QueryDelay'} = '100';</pre>

Ticket::Frontend::CustomerSearchAutoComplete###TypeAhead

Description	Value
Description:	Activates TypeAhead for the autocomplete feature, that enables users to type in whatever speed they desire, without losing any information. Often this means that keystrokes entered will not be displayed on the screen immediately.
Group:	Ticket
SubGroup:	Frontend::Agent::CustomerSearch
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::CustomerSearchAutoComplete'}- >{'TypeAhead'} = 'false';</pre>

Ticket::Frontend::CustomerSearchAutoComplete###MaxResultsDisplayed

Description	Value
Description:	Sets the number of search results to be displayed for the autocomplete feature.
Group:	Ticket
SubGroup:	Frontend::Agent::CustomerSearch
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::CustomerSearchAutoComplete'}- >{'MaxResultsDisplayed'} = '20';</pre>

Ticket::Frontend::CustomerSearchAutoComplete::DynamicWidth

Description	Value
Description:	Determines if the search results container for the autocomplete feature should adjust its width dynamically.
Group:	Ticket
SubGroup:	Frontend::Agent::CustomerSearch
Valid:	1

Description	Value
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::CustomerSearchAutoComplete::DynamicWidth'} = '1';</pre>

Frontend::Agent::Dashboard

DashboardBackend###0100-TicketPendingReminder

Description	Value
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.
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', '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' };</pre>

DashboardBackend###0110-TicketEscalation

Description	Value
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:

Description	Value
	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'}->{'0110-TicketEscalation'} = { 'Attributes' => 'TicketEscalationTimeOlderMinutes=1;SortBy=EscalationTime;Order' 'Block' => 'ContentLarge', 'CacheTTLLocal' => '0.5', 'Default' => '1', 'Description' => 'All escalated tickets', 'Filter' => 'All', 'Group' => '', 'Limit' => '10', 'Module' => 'Kernel::Output::HTML::DashboardTicketGeneric', 'Permission' => 'rw', 'Time' => 'EscalationTime', 'Title' => 'Escalated Tickets' }; </pre>

DashboardBackend###0120-TicketNew

Description	Value
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.
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', 'Description' => 'All new tickets, these tickets have not been worked on yet', </pre>

Description	Value
	<pre>'Filter' => 'All', 'Group' => '', 'Limit' => '10', 'Module' => 'Kernel::Output::HTML::DashboardTicketGeneric', 'Permission' => 'rw', 'Time' => 'Age', 'Title' => 'New Tickets' };</pre>

DashboardBackend###0130-TicketOpen

Description	Value
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.
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', '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>

DashboardBackend###0250-TicketStats

Description	Value
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

Description	Value
	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', 'Closed' => '1', 'Created' => '1', 'Default' => '1', 'Group' => '', 'Module' => 'Kernel::Output::HTML::DashboardTicketStatsGeneric', 'Permission' => 'rw', 'Title' => '7 Day Stats' }; </pre>

DashboardBackend###0260-TicketCalendar

Description	Value
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>

Frontend::Agent::ModuleMetaHead

Frontend::HeaderMetaModule###2-TicketSearch

Description	Value
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>

Frontend::Agent::ModuleNotify

Frontend::NotifyModule###5-Ticket::TicketEscalation

Description	Value
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>

Frontend::Agent::ModuleRegistration

Frontend::Module###AgentTicketQueue

Description	Value
Description:	Frontend module registration for the agent interface.

Description	Value
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'] }, 'NavBar' => [{ 'AccessKey' => 'o', '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' }; </pre>

Frontend::Module###AgentTicketPhone

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1

Description	Value
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AgentTicketPhone'} = { 'Description' => 'Create new phone picket', '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>

Frontend::Module###AgentTicketPhoneOutbound

Description	Value
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>

Frontend::Module###AgentTicketEmail

Description	Value
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' => 'e', 'Block' => '', 'Description' => 'Create new email ticket and send this out (outbound)', 'Link' => 'Action=AgentTicketEmail', 'LinkOption' => '', 'Name' => 'New email ticket', 'NavBar' => 'Ticket', 'Prio' => '210', 'Type' => '' }], 'NavBarName' => 'Ticket', 'Title' => 'New email ticket' }; </pre>

Frontend::Module###AgentTicketSearch

Description	Value
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', 'NavBar' => [</pre>

Description	Value
	<pre> { '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>

Frontend::Module###AgentTicketMailbox

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Frontend::Module'}- >{'AgentTicketMailbox'} = { 'Description' => 'compat module for AgentTicketMailbox to AgentTicketLockedView', 'NavBarName' => 'Ticket', 'Title' => '' }; </pre>

Frontend::Module###AgentTicketLockedView

Description	Value
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'} = { </pre>

Description	Value
	<pre>'Description' => 'Locked Tickets', 'NavBarName' => 'Ticket', 'Title' => 'Locked Tickets' };</pre>

Frontend::Module###AgentTicketResponsibleView

Description	Value
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', 'NavBarName' => 'Ticket', 'Title' => 'Responsible Tickets' };</pre>

Frontend::Module###AgentTicketWatchView

Description	Value
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', 'NavBarName' => 'Ticket', 'Title' => 'Watched Tickets' };</pre>

Frontend::Module###AgentCustomerSearch

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1

Description	Value
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}- >{'AgentCustomerSearch'} = { 'Description' => 'AgentCustomerSearch', 'NavBarName' => 'Ticket', 'Title' => 'AgentCustomerSearch' };</pre>

Frontend::Module###AgentTicketStatusView

Description	Value
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', '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>

Frontend::Module###AgentTicketEscalationView

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0

Description	Value
Config-Setting:	<pre> \$Self->{'Frontend::Module'}- >{'AgentTicketEscalationView'} = { 'Description' => 'Overview of all escalated tickets', '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>

Frontend::Module###AgentZoom

Description	Value
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>

Frontend::Module###AgentTicketZoom

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0

Description	Value
Config-Setting:	<pre> \$Self->{'Frontend::Module'}->{'AgentTicketZoom'} = { 'Description' => 'Ticket Zoom', 'Loader' => { 'JavaScript' => ['thirdparty/jquery-tablesorter-2.0.5/ jquery.tablesorter.js', 'Core.UI.Table.Sort.js', 'Core.Agent.TicketZoom.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Zoom' }; </pre>

Frontend::Module###AgentTicketAttachment

Description	Value
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>

Frontend::Module###AgentTicketPlain

Description	Value
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>

Frontend::Module###AgentTicketNote

Description	Value
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>

Frontend::Module###AgentTicketMerge

Description	Value
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>

Frontend::Module###AgentTicketPending

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	

Description	Value
	<pre> \$Self->{'Frontend::Module'}- >{'AgentTicketPending'} = { 'Description' => 'Ticket Pending', 'Loader' => { 'JavaScript' => ['Core.Agent.TicketAction.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Pending' }; </pre>

Frontend::Module###AgentTicketWatcher

Description	Value
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>

Frontend::Module###AgentTicketPriority

Description	Value
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>

Description	Value
	<code>};</code>

Frontend::Module###AgentTicketLock

Description	Value
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>

Frontend::Module###AgentTicketMove

Description	Value
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>

Frontend::Module###AgentTicketHistory

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1

Description	Value
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::Module'}- >{'AgentTicketHistory'} = { 'Description' => 'Ticket History', 'NavBarName' => 'Ticket', 'Title' => 'History' };</pre>

Frontend::Module###AgentTicketOwner

Description	Value
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', 'Loader' => { 'JavaScript' => ['Core.Agent.TicketAction.js'] }, 'NavBarName' => 'Ticket', 'Title' => 'Owner' };</pre>

Frontend::Module###AgentTicketResponsible

Description	Value
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'] }, };</pre>

Description	Value
	<pre>'NavBarName' => 'Ticket', 'Title' => 'Responsible' };</pre>

Frontend::Module###AgentTicketCompose

Description	Value
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>

Frontend::Module###AgentTicketBounce

Description	Value
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>

Frontend::Module###AgentTicketForward

Description	Value
Description:	Frontend module registration for the agent interface.

Description	Value
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>

Frontend::Module###AgentTicketCustomer

Description	Value
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>

Frontend::Module###AgentTicketClose

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration

Description	Value
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>

Frontend::Module###AgentTicketFreeText

Description	Value
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>

Frontend::Module###AgentTicketPrint

Description	Value
Description:	Frontend module registration for the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	

Description	Value
	<pre>\$Self->{'Frontend::Module'}->{'AgentTicketPrint'} = { 'Description' => 'Ticket Print', 'NavBarName' => 'Ticket', 'Title' => 'Print' };</pre>

Frontend::Module###AgentTicketBulk

Description	Value
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>

Frontend::Agent::Preferences

PreferencesGroups###NewTicketNotify

Description	Value
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' } };</pre>

Description	Value
	<pre> }, '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>

PreferencesGroups###FollowUpNotify

Description	Value
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>

PreferencesGroups###LockTimeoutNotify

Description	Value
Description:	Parameters for the LockTimeoutNotify object in the preference view of the agent interface.
Group:	Ticket

Description	Value
SubGroup:	Frontend::Agent::Preferences
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'PreferencesGroups'}->{'LockTimeoutNotify'} = { 'Active' => '1', 'Column' => 'Email Settings', 'Data' => { '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>

PreferencesGroups###MoveNotify

Description	Value
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', </pre>

Description	Value
	<pre>'PrefKey' => 'UserSendMoveNotification', 'Prio' => '4000' };</pre>

PreferencesGroups###WatcherNotify

Description	Value
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>

PreferencesGroups###CustomQueue

Description	Value
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',</pre>

Description	Value
	<pre>'Desc' => 'Your queue selection of your favourite 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>

PreferencesGroups###RefreshTime

Description	Value
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 QueueView will automatically refresh after the specified time.', 'Key' => 'Refresh QueueView after', 'Label' => 'QueueView Refresh Time', 'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserRefreshTime', 'Prio' => '2000' };</pre>

PreferencesGroups###TicketOverviewSmallPageShown

Description	Value
Description:	Parameters for the pages (in which the tickets are shown) of the small ticket overview.

Description	Value
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>

PreferencesGroups###TicketOverviewMediumPageShown

Description	Value
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', '35' => '35' } }; </pre>

Description	Value
	<pre> }, '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>

PreferencesGroups###TicketOverviewPreviewPageShown

Description	Value
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>

PreferencesGroups###CreateNextMask

Description	Value
Description:	Parameters for the CreateNextMask object in the preference view of the agent interface.

Description	Value
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>

Frontend::Agent::SearchRouter

Frontend::Search###Ticket

Description	Value
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>

Frontend::Agent::Ticket::ArticleAttachmentModule

Ticket::Frontend::ArticleAttachmentModule###1-Download

Description	Value
Description:	Shows a link to download article attachments in the zoom view of the article in the agent interface.

Description	Value
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>

Ticket::Frontend::ArticleAttachmentModule###2-HTML-Viewer

Description	Value
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>

Frontend::Agent::Ticket::ArticleComposeModule

Ticket::Frontend::ArticleComposeModule###1-SignEmail

Description	Value
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>

Description	Value
	<code>};</code>

Ticket::Frontend::ArticleComposeModule###2-CryptEmail

Description	Value
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>

Frontend::Agent::Ticket::ArticleViewModule

Ticket::Frontend::ArticleViewModule###1-PGP

Description	Value
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>

Ticket::Frontend::ArticleViewModule###1-SMIME

Description	Value
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:	

Description	Value
	<pre>\$Self->{'Ticket::Frontend::ArticleViewModule'}->{'1-SMIME'} = { 'Module' => 'Kernel::Output::HTML::ArticleCheckSMIME' };</pre>

Frontend::Agent::Ticket::ArticleViewModulePre

Ticket::Frontend::ArticlePreViewModule###1-PGP

Description	Value
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>

Ticket::Frontend::ArticlePreViewModule###1-SMIME

Description	Value
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>

Frontend::Agent::Ticket::MenuModule

Ticket::Frontend::MenuModule###000-Back

Description	Value
Description:	Shows a link in the menu to go back in the ticket zoom view of the agent interface.

Description	Value
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>

Ticket::Frontend::MenuModule###100-Lock

Description	Value
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>

Ticket::Frontend::MenuModule###200-History

Description	Value
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

Description	Value
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::MenuModule'}->{'200-History'} = { 'Action' => 'AgentTicketHistory', 'Description' => 'Shows the ticket history!', 'Link' => 'Action=AgentTicketHistory;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'History', 'PopupType' => 'TicketHistory', 'Target' => '' }; </pre>

Ticket::Frontend::MenuModule###210-Print

Description	Value
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>

Ticket::Frontend::MenuModule###300-Priority

Description	Value
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

Description	Value
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>

Ticket::Frontend::MenuModule###310-FreeText

Description	Value
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 ticket free fields!', 'Link' => 'Action=AgentTicketFreeText;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Free Fields', 'PopupType' => 'TicketAction', 'Target' => '' }; </pre>

Ticket::Frontend::MenuModule###320-Link

Description	Value
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

Description	Value
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>

Ticket::Frontend::MenuModule###400-Owner

Description	Value
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 ticket owner!', 'Link' => 'Action=AgentTicketOwner;TicketID= \$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Owner', 'PopupType' => 'TicketAction', 'Target' => '' }; </pre>

Ticket::Frontend::MenuModule###410-Responsible

Description	Value
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

Description	Value
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::MenuModule'}->{'410-Responsible'} = { 'Action' => 'AgentTicketResponsible', 'Description' => 'Change the ticket responsible!', 'Link' => 'Action=AgentTicketResponsible;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuResponsible', 'Name' => 'Responsible', 'PopupType' => 'TicketAction', 'Target' => '' }; </pre>

Ticket::Frontend::MenuModule###420-Customer

Description	Value
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 ticket customer!', 'Link' => 'Action=AgentTicketCustomer;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Customer', 'PopupType' => 'TicketAction', 'Target' => '' }; </pre>

Ticket::Frontend::MenuModule###420-Note

Description	Value
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

Description	Value
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>

Ticket::Frontend::MenuModule###430-Merge

Description	Value
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 this ticket!', 'Link' => 'Action=AgentTicketMerge;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Merge', 'PopupType' => 'TicketAction', 'Target' => '' }; </pre>

Ticket::Frontend::MenuModule###440-Pending

Description	Value
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

Description	Value
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>

Ticket::Frontend::MenuModule###448-Watch

Description	Value
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>

Ticket::Frontend::MenuModule###450-Close

Description	Value
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'} = { </pre>

Description	Value
	<pre> 'Action' => 'AgentTicketClose', 'Description' => 'Close this ticket!', 'Link' => 'Action=AgentTicketClose;TicketID= \$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Close', 'PopupType' => 'TicketAction', 'Target' => '' }; </pre>

Ticket::Frontend::MenuModule###460-Delete

Description	Value
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>

Ticket::Frontend::MenuModule###470-Spam

Description	Value
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

Description	Value
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>

Frontend::Agent::Ticket::MenuModulePre

Ticket::Frontend::PreMenuModule###100-Lock

Description	Value
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>

Ticket::Frontend::PreMenuModule###200-Zoom

Description	Value
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:	

Description	Value
	<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>

Ticket::Frontend::PreMenuModule###210-History

Description	Value
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' => 'Shows the ticket history!', 'Link' => 'Action=AgentTicketHistory;TicketID=\$QData{"TicketID"}', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'History', 'PopupType' => 'TicketHistory', 'Target' => '' };</pre>

Ticket::Frontend::PreMenuModule###300-Priority

Description	Value
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:	

Description	Value
	<pre> \$Self->{'Ticket::Frontend::PreMenuModule'}->{'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>

Ticket::Frontend::PreMenuModule###420-Note

Description	Value
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>

Ticket::Frontend::PreMenuModule###440-Close

Description	Value
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:	

Description	Value
	<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>

Ticket::Frontend::PreMenuModule###445-Move

Description	Value
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>

Ticket::Frontend::PreMenuModule###450-Delete

Description	Value
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', </pre>

Description	Value
	<pre>'Description' => 'Delete this ticket!', 'Link' => 'Action=AgentTicketMove;TicketID= \$Data{"TicketID"};DestQueue=Delete', 'Module' => 'Kernel::Output::HTML::TicketMenuGeneric', 'Name' => 'Delete', 'PopupType' => '', 'Target' => '' };</pre>

Ticket::Frontend::PreMenuModule###460-Spam

Description	Value
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>

Frontend::Agent::Ticket::ViewBounce

Ticket::Frontend::AgentTicketBounce###Permission

Description	Value
Description:	Required permissions to use the ticket bounce screen in the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewBounce
Valid:	1
Required:	1

Description	Value
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketBounce'}->{'Permission'} = 'bounce';</pre>

Ticket::Frontend::AgentTicketBounce###RequiredLock

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketBounce'}->{'RequiredLock'} = '1';</pre>

Ticket::Frontend::AgentTicketBounce###StateDefault

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketBounce'}->{'StateDefault'} = 'closed successful';</pre>

Ticket::Frontend::AgentTicketBounce###StateType

Description	Value
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'} = [</pre>

Description	Value
	<pre>'open', 'closed'];</pre>

Ticket::Frontend::BounceText

Description	Value
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>

Frontend::Agent::Ticket::ViewBulk

Ticket::Frontend::AgentTicketBulk###RequiredLock

Description	Value
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>

Ticket::Frontend::AgentTicketBulk###Owner

Description	Value
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

Description	Value
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketBulk'}- >{'Owner'} = '1';</pre>

Ticket::Frontend::AgentTicketBulk###Responsible

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketBulk'}- >{'Responsible'} = '1';</pre>

Ticket::Frontend::AgentTicketBulk###State

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketBulk'}- >{'State'} = '1';</pre>

Ticket::Frontend::AgentTicketBulk###StateType

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketBulk'}- >{'StateType'} = ['open',</pre>

Description	Value
	<pre>'closed', 'pending reminder', 'pending auto'];</pre>

Ticket::Frontend::AgentTicketBulk###StateDefault

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketBulk'}- >{'StateDefault'} = 'open';</pre>

Ticket::Frontend::AgentTicketBulk###Priority

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketBulk'}- >{'Priority'} = '1';</pre>

Ticket::Frontend::AgentTicketBulk###PriorityDefault

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketBulk'}- >{'PriorityDefault'} = '3 normal';</pre>

Ticket::Frontend::AgentTicketBulk###ArticleTypeDefault

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'ArticleTypeDefault'} = 'note-internal';</pre>

Ticket::Frontend::AgentTicketBulk###ArticleTypes

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketBulk'}->{'ArticleTypes'} = { 'note-external' => '1', 'note-internal' => '1', 'note-report' => '0' };</pre>

Frontend::Agent::Ticket::ViewClose

Ticket::Frontend::AgentTicketClose###Permission

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Permission'} = 'close';</pre>

Ticket::Frontend::AgentTicketClose###RequiredLock

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'RequiredLock'} = '1';</pre>

Ticket::Frontend::AgentTicketClose###TicketType

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'TicketType'} = '0';</pre>

Ticket::Frontend::AgentTicketClose###Service

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Service'} = '0';</pre>

Ticket::Frontend::AgentTicketClose###Owner

Description	Value
Description:	Sets the ticket owner in the close ticket screen of the agent interface.
Group:	Ticket

Description	Value
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}- >{'Owner'} = '0';</pre>

Ticket::Frontend::AgentTicketClose###OwnerMandatory

Description	Value
Description:	Sets if ticket owner must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}- >{'OwnerMandatory'} = '0';</pre>

Ticket::Frontend::AgentTicketClose###Responsible

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}- >{'Responsible'} = '0';</pre>

Ticket::Frontend::AgentTicketClose###State

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}- >{'State'} = '1';</pre>

Ticket::Frontend::AgentTicketClose###StateType

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'StateType'} = ['closed'];</pre>

Ticket::Frontend::AgentTicketClose###StateDefault

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'StateDefault'} = 'closed successful';</pre>

Ticket::Frontend::AgentTicketClose###Note

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Note'} = '1';</pre>

Ticket::Frontend::AgentTicketClose###Subject

Description	Value
Description:	Sets the default subject for notes added in the close ticket screen of the agent interface.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewClose
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Subject'} = '\$Text{"Close"}';</pre>

Ticket::Frontend::AgentTicketClose###Body

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'Body'} = '';</pre>

Ticket::Frontend::AgentTicketClose###InvolvedAgent

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'InvolvedAgent'} = '0';</pre>

Ticket::Frontend::AgentTicketClose###InformAgent

Description	Value
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

Description	Value
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'InformAgent'} = '0';</pre>

Ticket::Frontend::AgentTicketClose###ArticleTypeDefault

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'ArticleTypeDefault'} = 'note-internal';</pre>

Ticket::Frontend::AgentTicketClose###ArticleTypes

Description	Value
Description:	Specifies the different note types that will be used in the system.
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>

Ticket::Frontend::AgentTicketClose###Priority

Description	Value
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>

Ticket::Frontend::AgentTicketClose###PriorityDefault

Description	Value
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>

Ticket::Frontend::AgentTicketClose###Title

Description	Value
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>

Ticket::Frontend::AgentTicketClose###TicketFreeText

Description	Value
Description:	Ticket free text options shown in the close ticket 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}->{'TicketFreeText'} = { '1' => '0', '10' => '0', '11' => '0', '12' => '0', '13' => '0', '14' => '0', '15' => '0', }</pre>

Description	Value
	<pre>'16' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0', '7' => '0', '8' => '0', '9' => '0' };</pre>

Ticket::Frontend::AgentTicketClose###TicketFreeTime

Description	Value
Description:	Ticket free time options shown in the close ticket 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}- >{'TicketFreeTime'} = { '1' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0' };</pre>

Ticket::Frontend::AgentTicketClose###ArticleFreeText

Description	Value
Description:	Article free text options shown in the close ticket 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketClose'}- >{'ArticleFreeText'} = { '1' => '0', '2' => '0',</pre>

Description	Value
	<code>'3' => '0'</code> <code>};</code>

Ticket::Frontend::AgentTicketClose###HistoryType

Description	Value
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>

Ticket::Frontend::AgentTicketClose###HistoryComment

Description	Value
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>

Frontend::Agent::Ticket::ViewCompose

Ticket::Frontend::AgentTicketCompose###Permission

Description	Value
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>

Ticket::Frontend::AgentTicketCompose###RequiredLock

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketCompose'}->{'RequiredLock'} = '1';</pre>

Ticket::Frontend::AgentTicketCompose###StateDefault

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketCompose'}->{'StateDefault'} = 'open';</pre>

Ticket::Frontend::AgentTicketCompose###StateType

Description	Value
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>

Ticket::Frontend::ResponseFormat

Description	Value
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"} \$TimeShort{"\$QData{"Created"}"} - \$QData{"OrigFromName"} \$Text{"wrote"}: \$QData{"Body"} '; </pre>

Ticket::Frontend::Quote

Description	Value
Description:	Defines the used character for email quotes in the ticket compose screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewCompose
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::Quote'} = '>'; </pre>

Ticket::Frontend::ComposeAddCustomerAddress

Description	Value
Description:	Adds customers email addresses to recipients 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::ComposeAddCustomerAddress'} = '1'; </pre>

Ticket::Frontend::ComposeReplaceSenderAddress

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::ComposeReplaceSenderAddress'} = '0';</pre>

Ticket::Frontend::ComposeExcludeCcRecipients

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::ComposeExcludeCcRecipients'} = '0';</pre>

Ticket::Frontend::AgentTicketCompose###TicketFreeText

Description	Value
Description:	Ticket free text options 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketCompose'}->{'TicketFreeText'} = { '1' => '0', '10' => '0', '11' => '0', '12' => '0', }</pre>

Description	Value
	<pre>'13' => '0', '14' => '0', '15' => '0', '16' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0', '7' => '0', '8' => '0', '9' => '0' };</pre>

Ticket::Frontend::AgentTicketCompose###TicketFreeTime

Description	Value
Description:	Ticket free time options 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketCompose'}- >{'TicketFreeTime'} = { '1' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0' };</pre>

Ticket::Frontend::AgentTicketCompose###ArticleFreeText

Description	Value
Description:	Article free text options 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:	

Description	Value
	<pre>\$Self->{'Ticket::Frontend::AgentTicketCompose'}- >{'ArticleFreeText'} = { '1' => '0', '2' => '0', '3' => '0' };</pre>

Frontend::Agent::Ticket::ViewCustomer

Ticket::Frontend::AgentTicketCustomer###Permission

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketCustomer'}- >{'Permission'} = 'customer';</pre>

Ticket::Frontend::AgentTicketCustomer###RequiredLock

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketCustomer'}- >{'RequiredLock'} = '0';</pre>

Frontend::Agent::Ticket::ViewEmailNew

Ticket::Frontend::AgentTicketEmail###Priority

Description	Value
Description:	Sets the default priority for new email tickets in the agent interface.
Group:	Ticket

Description	Value
SubGroup:	Frontend::Agent::Ticket::ViewEmailNew
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'Priority'} = '3 normal';</pre>

Ticket::Frontend::AgentTicketEmail###ArticleType

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'ArticleType'} = 'email-external';</pre>

Ticket::Frontend::AgentTicketEmail###SenderType

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'SenderType'} = 'agent';</pre>

Ticket::Frontend::AgentTicketEmail###Subject

Description	Value
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:	

Description	Value
	<code>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'Subject'} = '';</code>

Ticket::Frontend::AgentTicketEmail###Body

Description	Value
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>

Ticket::Frontend::AgentTicketEmail###StateDefault

Description	Value
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>

Ticket::Frontend::AgentTicketEmail###StateType

Description	Value
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>

Description	Value
];

Ticket::Frontend::AgentTicketEmail###TicketFreeText

Description	Value
Description:	Ticket free text options shown in the email ticket 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:	<pre> \$Self->{'Ticket::Frontend::AgentTicketEmail'}- >{'TicketFreeText'} = { '1' => '0', '10' => '0', '11' => '0', '12' => '0', '13' => '0', '14' => '0', '15' => '0', '16' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0', '7' => '0', '8' => '0', '9' => '0' }; </pre>

Ticket::Frontend::AgentTicketEmail###TicketFreeTime

Description	Value
Description:	Ticket free time options shown in the email ticket 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:	<pre> \$Self->{'Ticket::Frontend::AgentTicketEmail'}- >{'TicketFreeTime'} = { '1' => '0', </pre>

Description	Value
	<pre>'2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0' };</pre>

Ticket::Frontend::AgentTicketEmail###ArticleFreeText

Description	Value
Description:	Article free text options shown in the email ticket 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketEmail'}- >{'ArticleFreeText'} = { '1' => '0', '2' => '0', '3' => '0' };</pre>

Ticket::Frontend::AgentTicketEmail###HistoryType

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketEmail'}- >{'HistoryType'} = 'EmailAgent';</pre>

Ticket::Frontend::AgentTicketEmail###HistoryComment

Description	Value
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

Description	Value
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketEmail'}->{'HistoryComment'} = '';</code>

Frontend::Agent::Ticket::ViewEscalation

Ticket::Frontend::AgentTicketEscalationView###ViewableTicketsPage

Description	Value
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>

Ticket::Frontend::AgentTicketEscalationView###SortBy::Default

Description	Value
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>

Ticket::Frontend::AgentTicketEscalationView###Order::Default

Description	Value
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

Description	Value
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketEscalationView'}- >{'Order::Default'} = 'Up';</pre>

Frontend::Agent::Ticket::ViewForward

Ticket::Frontend::AgentTicketForward###Permission

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketForward'}- >{'Permission'} = 'forward';</pre>

Ticket::Frontend::AgentTicketForward###RequiredLock

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketForward'}- >{'RequiredLock'} = '1';</pre>

Ticket::Frontend::AgentTicketForward###StateDefault

Description	Value
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

Description	Value
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketForward'}->{'StateDefault'} = 'closed successful';</pre>

Ticket::Frontend::AgentTicketForward###StateType

Description	Value
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>

Ticket::Frontend::AgentTicketForward###ArticleTypeDefault

Description	Value
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>

Ticket::Frontend::AgentTicketForward###ArticleTypes

Description	Value
Description:	Specifies the different article types that will be used in the system.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewForward
Valid:	1

Description	Value
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketForward'}- >{'ArticleTypes'} = ['email-external', 'email-internal'];</pre>

Ticket::Frontend::AgentTicketForward###TicketFreeText

Description	Value
Description:	Ticket free text options 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketForward'}- >{'TicketFreeText'} = { '1' => '0', '10' => '0', '11' => '0', '12' => '0', '13' => '0', '14' => '0', '15' => '0', '16' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0', '7' => '0', '8' => '0', '9' => '0' };</pre>

Ticket::Frontend::AgentTicketForward###TicketFreeTime

Description	Value
Description:	Ticket free time options 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

Description	Value
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketForward'}- >{'TicketFreeTime'} = { '1' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0' };</pre>

Ticket::Frontend::AgentTicketForward###ArticleFreeText

Description	Value
Description:	Article free text options 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::ViewForward
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketForward'}- >{'ArticleFreeText'} = { '1' => '0', '2' => '0', '3' => '0' };</pre>

Frontend::Agent::Ticket::ViewFreeText

Ticket::Frontend::AgentTicketFreeText###Permission

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}- >{'Permission'} = 'rw';</pre>

Ticket::Frontend::AgentTicketFreeText###RequiredLock

Description	Value
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).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'RequiredLock'} = '0';</pre>

Ticket::Frontend::AgentTicketFreeText###TicketType

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'TicketType'} = '1';</pre>

Ticket::Frontend::AgentTicketFreeText###Service

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Service'} = '1';</pre>

Ticket::Frontend::AgentTicketFreeText###Owner

Description	Value
Description:	Sets the ticket owner in the ticket free text screen of the agent interface.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Owner'} = '0';</pre>

Ticket::Frontend::AgentTicketFreeText###OwnerMandatory

Description	Value
Description:	Sets if ticket owner must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'OwnerMandatory'} = '0';</pre>

Ticket::Frontend::AgentTicketFreeText###Responsible

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Responsible'} = '0';</pre>

Ticket::Frontend::AgentTicketFreeText###State

Description	Value
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:	

Description	Value
	<code>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'State'} = '0';</code>

Ticket::Frontend::AgentTicketFreeText###StateType

Description	Value
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>

Ticket::Frontend::AgentTicketFreeText###StateDefault

Description	Value
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>

Ticket::Frontend::AgentTicketFreeText###Note

Description	Value
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>

Ticket::Frontend::AgentTicketFreeText###Subject

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Subject'} = '\$Text{"Note"}';</pre>

Ticket::Frontend::AgentTicketFreeText###Body

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Body'} = '';</pre>

Ticket::Frontend::AgentTicketFreeText###InvolvedAgent

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'InvolvedAgent'} = '0';</pre>

Ticket::Frontend::AgentTicketFreeText###InformAgent

Description	Value
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.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'InformAgent'} = '0';</pre>

Ticket::Frontend::AgentTicketFreeText###ArticleTypeDefault

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'ArticleTypeDefault'} = 'note-internal';</pre>

Ticket::Frontend::AgentTicketFreeText###ArticleTypes

Description	Value
Description:	Specifies the different note types that will be used in the system.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'ArticleTypes'} = { 'note-external' => '1', 'note-internal' => '1', 'note-report' => '0' };</pre>

Ticket::Frontend::AgentTicketFreeText###Priority

Description	Value
Description:	Shows the ticket priority options in the ticket free text screen of the agent interface.
Group:	Ticket

Description	Value
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Priority'} = '0';</pre>

Ticket::Frontend::AgentTicketFreeText###PriorityDefault

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'PriorityDefault'} = '3 normal';</pre>

Ticket::Frontend::AgentTicketFreeText###Title

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'Title'} = '1';</pre>

Ticket::Frontend::AgentTicketFreeText###TicketFreeText

Description	Value
Description:	Ticket free text options 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:	

Description	Value
	<pre> \$Self->{'Ticket::Frontend::AgentTicketFreeText'}- >{'TicketFreeText'} = { '1' => '1', '10' => '0', '11' => '0', '12' => '0', '13' => '0', '14' => '0', '15' => '0', '16' => '0', '2' => '1', '3' => '1', '4' => '1', '5' => '0', '6' => '0', '7' => '0', '8' => '0', '9' => '0' }; </pre>

Ticket::Frontend::AgentTicketFreeText###TicketFreeTime

Description	Value
Description:	Ticket free time options 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:	<pre> \$Self->{'Ticket::Frontend::AgentTicketFreeText'}- >{'TicketFreeTime'} = { '1' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0' }; </pre>

Ticket::Frontend::AgentTicketFreeText###ArticleFreeText

Description	Value
Description:	Article free text options shown in the ticket free text screen of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket

Description	Value
SubGroup:	Frontend::Agent::Ticket::ViewFreeText
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'ArticleFreeText'} = { '1' => '0', '2' => '0', '3' => '0' };</pre>

Ticket::Frontend::AgentTicketFreeText###HistoryType

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'HistoryType'} = 'AddNote';</pre>

Ticket::Frontend::AgentTicketFreeText###HistoryComment

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketFreeText'}->{'HistoryComment'} = '%%FreeText';</pre>

Frontend::Agent::Ticket::ViewHistory

Ticket::Frontend::HistoryOrder

Description	Value
Description:	Shows the ticket history (reverse ordered) in the agent interface.
Group:	Ticket

Description	Value
SubGroup:	Frontend::Agent::Ticket::ViewHistory
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::HistoryOrder'} = 'normal';</code>

Frontend::Agent::Ticket::ViewMailbox

Ticket::Frontend::AgentTicketLockedView###SortBy::Default

Description	Value
Description:	Defines the default ticket attribute for ticket sorting in the locked ticket view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMailbox
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketLockedView'}->{'SortBy::Default'} = 'Age';</code>

Ticket::Frontend::AgentTicketLockedView###Order::Default

Description	Value
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::ViewMailbox
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketLockedView'}->{'Order::Default'} = 'Up';</code>

Ticket::Frontend::AgentTicketResponsibleView###SortBy::Default

Description	Value
Description:	Defines the default ticket attribute for ticket sorting in the responsible view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMailbox

Description	Value
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketResponsibleView'}->{'SortBy::Default'} = 'Age';</pre>

Ticket::Frontend::AgentTicketResponsibleView###Order::Default

Description	Value
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::ViewMailbox
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketResponsibleView'}->{'Order::Default'} = 'Up';</pre>

Ticket::Frontend::AgentTicketWatchView###SortBy::Default

Description	Value
Description:	Defines the default ticket attribute for ticket sorting in the watch view of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewMailbox
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketWatchView'}->{'SortBy::Default'} = 'Age';</pre>

Ticket::Frontend::AgentTicketWatchView###Order::Default

Description	Value
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::ViewMailbox
Valid:	1
Required:	1

Description	Value
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketWatchView'}->{'Order::Default'} = 'Up';</pre>

Frontend::Agent::Ticket::ViewMerge

Ticket::Frontend::AgentTicketMerge###Permission

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketMerge'}->{'Permission'} = 'rw';</pre>

Ticket::Frontend::AgentTicketMerge###RequiredLock

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketMerge'}->{'RequiredLock'} = '1';</pre>

Ticket::Frontend::MergeText

Description	Value
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:	

Description	Value
	<code>\$Self->{'Ticket::Frontend::MergeText'} = 'Your email with ticket number "<OTRS_TICKET>" is merged to "<OTRS_MERGE_TO_TICKET>".';</code>

Ticket::Frontend::AutomaticMergeText

Description	Value
Description:	When tickets are merged, a note will be added automatically to the ticket which is no longer active. In this text area you can define this text (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>

Frontend::Agent::Ticket::ViewMove

Ticket::Frontend::MoveType

Description	Value
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>

Ticket::Frontend::AgentTicketMove###State

Description	Value
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:	

Description	Value
	<code>\$Self->{'Ticket::Frontend::AgentTicketMove'}->{'State'} = '1';</code>

Ticket::DefaultNextMoveStateType

Description	Value
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::DefaultNextMoveStateType'} = ['open', 'closed'];</code>

Ticket::Frontend::AgentTicketMove###Priority

Description	Value
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>

Ticket::Frontend::AgentTicketMove###TicketFreeText

Description	Value
Description:	Ticket free text options shown in the move ticket 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'}->{'TicketFreeText'} = { '1' => '0',</code>

Description	Value
	<pre>'10' => '0', '11' => '0', '12' => '0', '13' => '0', '14' => '0', '15' => '0', '16' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0', '7' => '0', '8' => '0', '9' => '0' };</pre>

Ticket::Frontend::AgentTicketMove###TicketFreeTime

Description	Value
Description:	Ticket free time options shown in the move ticket 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketMove'}- >{'TicketFreeTime'} = { '1' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0' };</pre>

Ticket::Frontend::AgentTicketMove###Subject

Description	Value
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:	

Description	Value
	<code>\$Self->{'Ticket::Frontend::AgentTicketMove'}->{'Subject'} = '\$Text{"Change Queue"}';</code>

Ticket::Frontend::AgentTicketMove###Body

Description	Value
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>

Frontend::Agent::Ticket::ViewNote

Ticket::Frontend::AgentTicketNote###Permission

Description	Value
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>

Ticket::Frontend::AgentTicketNote###RequiredLock

Description	Value
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>

Ticket::Frontend::AgentTicketNote###TicketType

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'TicketType'} = '0';</pre>

Ticket::Frontend::AgentTicketNote###Service

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Service'} = '0';</pre>

Ticket::Frontend::AgentTicketNote###Owner

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Owner'} = '0';</pre>

Ticket::Frontend::AgentTicketNote###OwnerMandatory

Description	Value
Description:	Sets if ticket owner must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote

Description	Value
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'OwnerMandatory'} = '0';</code>

Ticket::Frontend::AgentTicketNote###Responsible

Description	Value
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>

Ticket::Frontend::AgentTicketNote###State

Description	Value
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>

Ticket::Frontend::AgentTicketNote###StateType

Description	Value
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'} = [</code>

Description	Value
	<pre>'open', 'closed', 'pending reminder', 'pending auto'];</pre>

Ticket::Frontend::AgentTicketNote###StateDefault

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}- >{'StateDefault'} = 'open';</pre>

Ticket::Frontend::AgentTicketNote###Note

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}- >{'Note'} = '1';</pre>

Ticket::Frontend::AgentTicketNote###Subject

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}- >{'Subject'} = '\$Text{"Note"}';</pre>

Ticket::Frontend::AgentTicketNote###Body

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Body'} = '';</pre>

Ticket::Frontend::AgentTicketNote###InvolvedAgent

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'InvolvedAgent'} = '0';</pre>

Ticket::Frontend::AgentTicketNote###InformAgent

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'InformAgent'} = '0';</pre>

Ticket::Frontend::AgentTicketNote###ArticleTypeDefault

Description	Value
Description:	Defines the default type of the note in the ticket note screen of the agent interface.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}- >{'ArticleTypeDefault'} = 'note-internal';</pre>

Ticket::Frontend::AgentTicketNote###ArticleTypes

Description	Value
Description:	Specifies the different note types that will be used in the system.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}- >{'ArticleTypes'} = { 'note-external' => '1', 'note-internal' => '1', 'note-report' => '0' };</pre>

Ticket::Frontend::AgentTicketNote###Priority

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}- >{'Priority'} = '0';</pre>

Ticket::Frontend::AgentTicketNote###PriorityDefault

Description	Value
Description:	Defines the default ticket priority in the ticket note screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote

Description	Value
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'PriorityDefault'} = '3 normal';</pre>

Ticket::Frontend::AgentTicketNote###Title

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'Title'} = '0';</pre>

Ticket::Frontend::AgentTicketNote###TicketFreeText

Description	Value
Description:	Ticket free text options 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'TicketFreeText'} = { '1' => '0', '10' => '0', '11' => '0', '12' => '0', '13' => '0', '14' => '0', '15' => '0', '16' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0', '7' => '0', '8' => '0',</pre>

Description	Value
	<pre>'9' => '0' };</pre>

Ticket::Frontend::AgentTicketNote###TicketFreeTime

Description	Value
Description:	Ticket free time options 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}- >{'TicketFreeTime'} = { '1' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0' };</pre>

Ticket::Frontend::AgentTicketNote###ArticleFreeText

Description	Value
Description:	Article free text options 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}- >{'ArticleFreeText'} = { '1' => '0', '2' => '0', '3' => '0' };</pre>

Ticket::Frontend::AgentTicketNote###HistoryType

Description	Value
Description:	Defines the history type for the ticket note screen action, which gets used for ticket history in the agent interface.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewNote
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'HistoryType'} = 'AddNote';</pre>

Ticket::Frontend::AgentTicketNote###HistoryComment

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketNote'}->{'HistoryComment'} = '%%Note';</pre>

Frontend::Agent::Ticket::ViewOwner

Ticket::Frontend::AgentTicketOwner###Permission

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Permission'} = 'owner';</pre>

Ticket::Frontend::AgentTicketOwner###RequiredLock

Description	Value
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

Description	Value
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'RequiredLock'} = '0';</code>

Ticket::Frontend::AgentTicketOwner###TicketType

Description	Value
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>

Ticket::Frontend::AgentTicketOwner###Service

Description	Value
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>

Ticket::Frontend::AgentTicketOwner###Owner

Description	Value
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>

Ticket::Frontend::AgentTicketOwner###OwnerMandatory

Description	Value
Description:	Sets if ticket owner must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'OwnerMandatory'} = '1';</pre>

Ticket::Frontend::AgentTicketOwner###Responsible

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Responsible'} = '0';</pre>

Ticket::Frontend::AgentTicketOwner###State

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'State'} = '0';</pre>

Ticket::Frontend::AgentTicketOwner###StateType

Description	Value
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

Description	Value
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'StateType'} = ['open', 'pending reminder', 'pending auto'];</pre>

Ticket::Frontend::AgentTicketOwner###StateDefault

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'StateDefault'} = 'open';</pre>

Ticket::Frontend::AgentTicketOwner###Note

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Note'} = '1';</pre>

Ticket::Frontend::AgentTicketOwner###Subject

Description	Value
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

Description	Value
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Subject'} = '\$Text{"Owner Update"}!';</code>

Ticket::Frontend::AgentTicketOwner###Body

Description	Value
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>

Ticket::Frontend::AgentTicketOwner###InvolvedAgent

Description	Value
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>

Ticket::Frontend::AgentTicketOwner###InformAgent

Description	Value
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:	

Description	Value
	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'InformAgent'} = '0';</code>

Ticket::Frontend::AgentTicketOwner###ArticleTypeDefault

Description	Value
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>

Ticket::Frontend::AgentTicketOwner###ArticleTypes

Description	Value
Description:	Specifies the different note types that will be used in the system.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewOwner
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'ArticleTypes'} = { 'note-external' => '0', 'note-internal' => '1', 'note-report' => '0' };</code>

Ticket::Frontend::AgentTicketOwner###Priority

Description	Value
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:	<code>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'Priority'} = '0';</code>

Ticket::Frontend::AgentTicketOwner###PriorityDefault

Description	Value
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>

Ticket::Frontend::AgentTicketOwner###Title

Description	Value
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>

Ticket::Frontend::AgentTicketOwner###TicketFreeText

Description	Value
Description:	Ticket free text options shown in the ticket owner screen of a zoomed ticket in 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketOwner'}->{'TicketFreeText'} = { '1' => '0', '10' => '0', '11' => '0', '12' => '0', '13' => '0', '14' => '0', '15' => '0', }</pre>

Description	Value
	<pre>'16' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0', '7' => '0', '8' => '0', '9' => '0' };</pre>

Ticket::Frontend::AgentTicketOwner###TicketFreeTime

Description	Value
Description:	Ticket free time options shown in the ticket owner screen of a zoomed ticket in 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketOwner'}- >{'TicketFreeTime'} = { '1' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0' };</pre>

Ticket::Frontend::AgentTicketOwner###ArticleFreeText

Description	Value
Description:	Article free text options shown in the ticket owner screen of a zoomed ticket in 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketOwner'}- >{'ArticleFreeText'} = { '1' => '0', '2' => '0',</pre>

Description	Value
	<code>'3' => '0'</code> <code>};</code>

Ticket::Frontend::AgentTicketOwner###HistoryType

Description	Value
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>

Ticket::Frontend::AgentTicketOwner###HistoryComment

Description	Value
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'} = '%%Owner';</code>

Frontend::Agent::Ticket::ViewPending

Ticket::Frontend::AgentTicketPending###Permission

Description	Value
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>

Ticket::Frontend::AgentTicketPending###RequiredLock

Description	Value
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>

Ticket::Frontend::AgentTicketPending###TicketType

Description	Value
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>

Ticket::Frontend::AgentTicketPending###Service

Description	Value
Description:	Sets the service in the ticket pending screen of a zoomed ticket in the agent interface (Ticket::Service needs to be activated).
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Service'} = '0';</code>

Ticket::Frontend::AgentTicketPending###Owner

Description	Value
Description:	Sets the ticket owner in the ticket pending screen of a zoomed ticket in the agent interface.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Owner'} = '0';</pre>

Ticket::Frontend::AgentTicketPending###OwnerMandatory

Description	Value
Description:	Sets if ticket owner must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'OwnerMandatory'} = '0';</pre>

Ticket::Frontend::AgentTicketPending###Responsible

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Responsible'} = '0';</pre>

Ticket::Frontend::AgentTicketPending###State

Description	Value
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:	

Description	Value
	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'State'} = '1';</code>

Ticket::Frontend::AgentTicketPending###StateType

Description	Value
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:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'StateType'} = ['pending reminder', 'pending auto'];</code>

Ticket::Frontend::AgentTicketPending###StateDefault

Description	Value
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:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'StateDefault'} = 'pending reminder';</code>

Ticket::Frontend::AgentTicketPending###Note

Description	Value
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:	<code>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Note'} = '1';</code>

Ticket::Frontend::AgentTicketPending###Subject

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Subject'} = '\$Text{"Pending"}!';</pre>

Ticket::Frontend::AgentTicketPending###Body

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Body'} = '';</pre>

Ticket::Frontend::AgentTicketPending###InvolvedAgent

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'InvolvedAgent'} = '0';</pre>

Ticket::Frontend::AgentTicketPending###InformAgent

Description	Value
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.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'InformAgent'} = '0';</pre>

Ticket::Frontend::AgentTicketPending###ArticleTypeDefault

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'ArticleTypeDefault'} = 'note-internal';</pre>

Ticket::Frontend::AgentTicketPending###ArticleTypes

Description	Value
Description:	Specifies the different note types that will be used in the system.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'ArticleTypes'} = { 'note-external' => '0', 'note-internal' => '1', 'note-report' => '0' };</pre>

Ticket::Frontend::AgentTicketPending###Priority

Description	Value
Description:	Shows the ticket priority options in the ticket pending screen of a zoomed ticket in the agent interface.
Group:	Ticket

Description	Value
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'Priority'} = '0';</pre>

Ticket::Frontend::AgentTicketPending###PriorityDefault

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'PriorityDefault'} = '3 normal';</pre>

Ticket::Frontend::AgentTicketPending###Title

Description	Value
Description:	Shows the title fields 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'}->{'Title'} = '0';</pre>

Ticket::Frontend::AgentTicketPending###TicketFreeText

Description	Value
Description:	Ticket free text options shown in the ticket pending screen of a zoomed ticket in the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0

Description	Value
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::AgentTicketPending'}- >{'TicketFreeText'} = { '1' => '0', '10' => '0', '11' => '0', '12' => '0', '13' => '0', '14' => '0', '15' => '0', '16' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0', '7' => '0', '8' => '0', '9' => '0' }; </pre>

Ticket::Frontend::AgentTicketPending###TicketFreeTime

Description	Value
Description:	Ticket free time options shown in the ticket pending screen of a zoomed ticket in 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:	<pre> \$Self->{'Ticket::Frontend::AgentTicketPending'}- >{'TicketFreeTime'} = { '1' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0' }; </pre>

Ticket::Frontend::AgentTicketPending###ArticleFreeText

Description	Value
Description:	Article free text options shown in the ticket pending screen of a zoomed ticket in the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPending
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'ArticleFreeText'} = { '1' => '0', '2' => '0', '3' => '0' };</pre>

Ticket::Frontend::AgentTicketPending###HistoryType

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'HistoryType'} = 'AddNote';</pre>

Ticket::Frontend::AgentTicketPending###HistoryComment

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPending'}->{'HistoryComment'} = '%Pending';</pre>

Frontend::Agent::Ticket::ViewPhoneNew

Ticket::Frontend::AgentTicketPhone###Priority

Description	Value
Description:	Sets the default priority for new phone tickets in the agent interface.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPhoneNew
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'Priority'} = '3 normal';</pre>

Ticket::Frontend::AgentTicketPhone###ArticleType

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'ArticleType'} = 'phone';</pre>

Ticket::Frontend::AgentTicketPhone###SenderType

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'SenderType'} = 'customer';</pre>

Ticket::Frontend::AgentTicketPhone###Subject

Description	Value
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:	

Description	Value
	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'Subject'} = '';</code>

Ticket::Frontend::AgentTicketPhone###Body

Description	Value
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>

Ticket::Frontend::AgentTicketPhone###StateDefault

Description	Value
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>

Ticket::Frontend::AgentTicketPhone###StateType

Description	Value
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>

Ticket::Frontend::AgentTicketPhone###TicketFreeText

Description	Value
Description:	Ticket free text options shown in the phone ticket 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:	<pre> \$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'TicketFreeText'} = { '1' => '0', '10' => '0', '11' => '0', '12' => '0', '13' => '0', '14' => '0', '15' => '0', '16' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0', '7' => '0', '8' => '0', '9' => '0' }; </pre>

Ticket::Frontend::AgentTicketPhone###TicketFreeTime

Description	Value
Description:	Ticket free time options shown in the phone ticket 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:	<pre> \$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'TicketFreeTime'} = { '1' => '0', '2' => '0', '3' => '0', '4' => '0', }; </pre>

Description	Value
	<pre>'5' => '0', '6' => '0' };</pre>

Ticket::Frontend::AgentTicketPhone###ArticleFreeText

Description	Value
Description:	Article free text options shown in the phone ticket 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPhone'}- >{'ArticleFreeText'} = { '1' => '0', '2' => '0', '3' => '0' };</pre>

Ticket::Frontend::AgentTicketPhone###HistoryType

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPhone'}- >{'HistoryType'} = 'PhoneCallCustomer';</pre>

Ticket::Frontend::AgentTicketPhone###HistoryComment

Description	Value
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:	

Description	Value
	<code>\$Self->{'Ticket::Frontend::AgentTicketPhone'}->{'HistoryComment'} = '';</code>

Ticket::Frontend::AgentTicketPhone###SplitLinkType

Description	Value
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>

Frontend::Agent::Ticket::ViewPhoneOutbound

Ticket::Frontend::AgentTicketPhoneOutbound###Permission

Description	Value
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>

Ticket::Frontend::AgentTicketPhoneOutbound###RequiredLock

Description	Value
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:	

Description	Value
	<pre>\$Self- >{'Ticket::Frontend::AgentTicketPhoneOutbound'}- >{'RequiredLock'} = '1';</pre>

Ticket::Frontend::AgentTicketPhoneOutbound###ArticleType

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketPhoneOutbound'}- >{'ArticleType'} = 'phone';</pre>

Ticket::Frontend::AgentTicketPhoneOutbound###SenderType

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketPhoneOutbound'}- >{'SenderType'} = 'agent';</pre>

Ticket::Frontend::AgentTicketPhoneOutbound###Subject

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketPhoneOutbound'}- >{'Subject'} = '\$Text{"Phone call"}!';</pre>

Ticket::Frontend::AgentTicketPhoneOutbound###Body

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketPhoneOutbound'}- >{'Body'} = '';</pre>

Ticket::Frontend::AgentTicketPhoneOutbound###State

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketPhoneOutbound'}- >{'State'} = 'closed successful';</pre>

Ticket::Frontend::AgentTicketPhoneOutbound###StateType

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketPhoneOutbound'}- >{'StateType'} = ['open', 'pending auto', 'pending reminder', 'closed'];</pre>

Ticket::Frontend::AgentTicketPhoneOutbound###TicketFreeText

Description	Value
Description:	Ticket free text options 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:	<pre> \$Self- >{'Ticket::Frontend::AgentTicketPhoneOutbound'}- >{'TicketFreeText'} = { '1' => '0', '10' => '0', '11' => '0', '12' => '0', '13' => '0', '14' => '0', '15' => '0', '16' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0', '7' => '0', '8' => '0', '9' => '0' }; </pre>

Ticket::Frontend::AgentTicketPhoneOutbound###TicketFreeTime

Description	Value
Description:	Ticket free time options 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:	<pre> \$Self- >{'Ticket::Frontend::AgentTicketPhoneOutbound'}- >{'TicketFreeTime'} = { '1' => '0', '2' => '0', </pre>

Description	Value
	<pre>'3' => '0', '4' => '0', '5' => '0', '6' => '0' };</pre>

Ticket::Frontend::AgentTicketPhoneOutbound###ArticleFreeText

Description	Value
Description:	Article free text options 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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketPhoneOutbound'}- >{'ArticleFreeText'} = { '1' => '0', '2' => '0', '3' => '0' };</pre>

Ticket::Frontend::AgentTicketPhoneOutbound###HistoryType

Description	Value
Description:	Defines the history type 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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketPhoneOutbound'}- >{'HistoryType'} = 'PhoneCallAgent';</pre>

Ticket::Frontend::AgentTicketPhoneOutbound###HistoryComment

Description	Value
Description:	Defines the history comment for the ticket phone outbound screen action, which gets used for ticket history in the agent interface.
Group:	Ticket

Description	Value
SubGroup:	Frontend::Agent::Ticket::ViewPhoneOutbound
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPhoneOutbound'}->{'HistoryComment'} = '';</pre>

Frontend::Agent::Ticket::ViewPriority

Ticket::Frontend::AgentTicketPriority###Permission

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Permission'} = 'priority';</pre>

Ticket::Frontend::AgentTicketPriority###RequiredLock

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'RequiredLock'} = '1';</pre>

Ticket::Frontend::AgentTicketPriority###TicketType

Description	Value
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

Description	Value
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'TicketType'} = '0';</pre>

Ticket::Frontend::AgentTicketPriority###Service

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Service'} = '0';</pre>

Ticket::Frontend::AgentTicketPriority###Owner

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Owner'} = '0';</pre>

Ticket::Frontend::AgentTicketPriority###OwnerMandatory

Description	Value
Description:	Sets if ticket owner must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	

Description	Value
	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'OwnerMandatory'} = '0';</code>

Ticket::Frontend::AgentTicketPriority###Responsible

Description	Value
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>

Ticket::Frontend::AgentTicketPriority###State

Description	Value
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>

Ticket::Frontend::AgentTicketPriority###StateType

Description	Value
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>

Ticket::Frontend::AgentTicketPriority###StateDefault

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'StateDefault'} = 'open';</pre>

Ticket::Frontend::AgentTicketPriority###Note

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Note'} = '1';</pre>

Ticket::Frontend::AgentTicketPriority###Subject

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Subject'} = '\$Text{"Priority Update"}!';</pre>

Ticket::Frontend::AgentTicketPriority###Body

Description	Value
Description:	Sets the default body text for notes added in the ticket priority screen of a zoomed ticket in the agent interface.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Body'} = '';</pre>

Ticket::Frontend::AgentTicketPriority###InvolvedAgent

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'InvolvedAgent'} = '0';</pre>

Ticket::Frontend::AgentTicketPriority###InformAgent

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'InformAgent'} = '0';</pre>

Ticket::Frontend::AgentTicketPriority###ArticleTypeDefault

Description	Value
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

Description	Value
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'ArticleTypeDefault'} = 'note-internal';</pre>

Ticket::Frontend::AgentTicketPriority###ArticleTypes

Description	Value
Description:	Specifies the different note types that will be used in the system.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewPriority
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'ArticleTypes'} = { 'note-external' => '0', 'note-internal' => '1', 'note-report' => '0' };</pre>

Ticket::Frontend::AgentTicketPriority###Priority

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Priority'} = '1';</pre>

Ticket::Frontend::AgentTicketPriority###PriorityDefault

Description	Value
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

Description	Value
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'PriorityDefault'} = '3 normal';</pre>

Ticket::Frontend::AgentTicketPriority###Title

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'Title'} = '0';</pre>

Ticket::Frontend::AgentTicketPriority###TicketFreeText

Description	Value
Description:	Ticket free text options shown in the ticket priority screen of a zoomed ticket in 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'TicketFreeText'} = { '1' => '0', '10' => '0', '11' => '0', '12' => '0', '13' => '0', '14' => '0', '15' => '0', '16' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0', '7' => '0', '8' => '0', '9' => '0' };</pre>

Ticket::Frontend::AgentTicketPriority###TicketFreeTime

Description	Value
Description:	Ticket free time options shown in the ticket priority screen of a zoomed ticket in 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'TicketFreeTime'} = { '1' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0' };</pre>

Ticket::Frontend::AgentTicketPriority###ArticleFreeText

Description	Value
Description:	Article free text options shown in the ticket priority screen of a zoomed ticket in 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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'ArticleFreeText'} = { '1' => '0', '2' => '0', '3' => '0' };</pre>

Ticket::Frontend::AgentTicketPriority###HistoryType

Description	Value
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

Description	Value
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketPriority'}->{'HistoryType'} = 'AddNote';</code>

Ticket::Frontend::AgentTicketPriority###HistoryComment

Description	Value
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>

Frontend::Agent::Ticket::ViewQueue

Ticket::Frontend::AgentTicketQueue###StripEmptyLines

Description	Value
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>

Ticket::Frontend::AgentTicketQueue###ViewAllPossibleTickets

Description	Value
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>

Ticket::Frontend::AgentTicketQueue###HighlightAge1

Description	Value
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>

Ticket::Frontend::AgentTicketQueue###HighlightAge2

Description	Value
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>

Ticket::Frontend::AgentTicketQueue###Blink

Description	Value
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>

Ticket::Frontend::AgentTicketQueue###QueueSort

Description	Value
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.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewQueue
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketQueue'}- >{'QueueSort'} = { '3' => '0', '7' => '1' };</pre>

Ticket::Frontend::AgentTicketQueue###SortBy::Default

Description	Value
Description:	Defines the default sort criteria for all queues displayed in the queue view, after sort by priority is done.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewQueue
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketQueue'}- >{'SortBy::Default'} = 'Age';</pre>

Ticket::Frontend::AgentTicketQueue###Order::Default

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketQueue'}- >{'Order::Default'} = 'Up';</pre>

Frontend::Agent::Ticket::ViewResponsible

Ticket::Frontend::AgentTicketResponsible###Permission

Description	Value
Description:	Required permissions to use the ticket responsible screen in the agent interface.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'Permission'} = 'responsible';</pre>

Ticket::Frontend::AgentTicketResponsible###RequiredLock

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'RequiredLock'} = '0';</pre>

Ticket::Frontend::AgentTicketResponsible###TicketType

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'TicketType'} = '0';</pre>

Ticket::Frontend::AgentTicketResponsible###Service

Description	Value
Description:	Sets the service in the ticket responsible screen of the agent interface (Ticket::Service needs to be activated).

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'Service'} = '0';</pre>

Ticket::Frontend::AgentTicketResponsible###Owner

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'Owner'} = '0';</pre>

Ticket::Frontend::AgentTicketResponsible###OwnerMandatory

Description	Value
Description:	Sets if ticket owner must be selected by the agent.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'OwnerMandatory'} = '0';</pre>

Ticket::Frontend::AgentTicketResponsible###Responsible

Description	Value
Description:	Sets the responsible agent of the ticket in the ticket responsible screen of the agent interface.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible

Description	Value
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'Responsible'} = '1';</pre>

Ticket::Frontend::AgentTicketResponsible###State

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'State'} = '0';</pre>

Ticket::Frontend::AgentTicketResponsible###StateType

Description	Value
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>

Ticket::Frontend::AgentTicketResponsible###StateDefault

Description	Value
Description:	Defines the default next state of a ticket after adding a note, in the ticket responsible screen of the agent interface.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'StateDefault'} = 'open';</pre>

Ticket::Frontend::AgentTicketResponsible###Note

Description	Value
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>

Ticket::Frontend::AgentTicketResponsible###Subject

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'Subject'} = '\$Text{"Responsible Update"}!';</pre>

Ticket::Frontend::AgentTicketResponsible###Body

Description	Value
Description:	Sets the default body text for notes added in the ticket responsible screen of the agent interface.
Group:	Ticket

Description	Value
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'Body'} = '';</pre>

Ticket::Frontend::AgentTicketResponsible###InvolvedAgent

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'InvolvedAgent'} = '0';</pre>

Ticket::Frontend::AgentTicketResponsible###InformAgent

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'InformAgent'} = '0';</pre>

Ticket::Frontend::AgentTicketResponsible###ArticleTypeDefault

Description	Value
Description:	Defines the default type of the note in the ticket responsible screen of the agent interface.
Group:	Ticket

Description	Value
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'ArticleTypeDefault'} = 'note-internal';</pre>

Ticket::Frontend::AgentTicketResponsible###ArticleTypes

Description	Value
Description:	Specifies the different note types that will be used in the system.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'ArticleTypes'} = { 'note-external' => '0', 'note-internal' => '1', 'note-report' => '0' };</pre>

Ticket::Frontend::AgentTicketResponsible###Priority

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'Priority'} = '0';</pre>

Ticket::Frontend::AgentTicketResponsible###PriorityDefault

Description	Value
Description:	Defines the default ticket priority in the ticket responsible screen of the agent interface.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewResponsible
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'PriorityDefault'} = '3 normal';</pre>

Ticket::Frontend::AgentTicketResponsible###Title

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'Title'} = '1';</pre>

Ticket::Frontend::AgentTicketResponsible###TicketFreeText

Description	Value
Description:	Ticket free text options 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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'TicketFreeText'} = { '1' => '0', '10' => '0', '11' => '0', '12' => '0', '13' => '0', '14' => '0', '15' => '0', '16' => '0',</pre>

Description	Value
	<pre>'2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0', '7' => '0', '8' => '0', '9' => '0' };</pre>

Ticket::Frontend::AgentTicketResponsible###TicketFreeTime

Description	Value
Description:	Ticket free time options 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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'TicketFreeTime'} = { '1' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0' };</pre>

Ticket::Frontend::AgentTicketResponsible###ArticleFreeText

Description	Value
Description:	Article free text options 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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'ArticleFreeText'} = {</pre>

Description	Value
	<pre>'1' => '0', '2' => '0', '3' => '0' };</pre>

Ticket::Frontend::AgentTicketResponsible###HistoryType

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'HistoryType'} = 'AddNote';</pre>

Ticket::Frontend::AgentTicketResponsible###HistoryComment

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketResponsible'}- >{'HistoryComment'} = '%Responsible';</pre>

Frontend::Agent::Ticket::ViewSearch

Ticket::Frontend::AgentTicketSearch###ExtendedSearchCondition

Description	Value
Description:	Allows extended search conditions in ticket search of the agent interface. With this feature you can search w. g. with this kind of conditions like "(key1&&key2)" or "(key1 key2)".
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch

Description	Value
Valid:	1
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'ExtendedSearchCondition'} = '1';</code>

Ticket::Frontend::AgentTicketSearch###SearchLimit

Description	Value
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>

Ticket::Frontend::AgentTicketSearch###SearchPageShown

Description	Value
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>

Ticket::Frontend::AgentTicketSearch###SearchViewableTicketLines

Description	Value
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:	

Description	Value
	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'SearchViewableTicketLines'} = '10';</code>

Ticket::Frontend::AgentTicketSearch###TicketFreeText

Description	Value
Description:	Ticket free text options shown in the ticket search of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled, 2 = Enabled and required.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'TicketFreeText'} = { '1' => '1', '10' => '0', '11' => '0', '12' => '0', '13' => '0', '14' => '0', '15' => '0', '16' => '0', '2' => '1', '3' => '0', '4' => '0', '5' => '0', '6' => '0', '7' => '0', '8' => '0', '9' => '0' }; </pre>

Ticket::Frontend::AgentTicketSearch###TicketFreeTime

Description	Value
Description:	Ticket free time options shown in the ticket search of the agent interface. Possible settings: 0 = Disabled, 1 = Enabled.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'TicketFreeTime'} = { '1' => '0', </pre>

Description	Value
	<pre>'2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0' };</pre>

Ticket::Frontend::AgentTicketSearch###SortBy::Default

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'SortBy::Default'} = 'Age';</pre>

Ticket::Frontend::AgentTicketSearch###Order::Default

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Order::Default'} = 'Down';</pre>

Ticket::Frontend::AgentTicketSearch###SearchArticleCSVTree

Description	Value
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:	

Description	Value
	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'SearchArticleCSVTree'} = '0';</code>

Ticket::Frontend::AgentTicketSearch###SearchCSVData

Description	Value
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', 'TicketFreeKey1', 'TicketFreeText1', 'TicketFreeKey2', 'TicketFreeText2', 'TicketFreeKey3', 'TicketFreeText3', 'TicketFreeKey4', 'TicketFreeText4', 'TicketFreeKey5', 'TicketFreeText5', 'TicketFreeKey6', 'TicketFreeText6', 'TicketFreeKey7', 'TicketFreeText7', 'TicketFreeKey8', 'TicketFreeText8', 'TicketFreeTime1', 'TicketFreeTime2', </pre>

Description	Value
	<pre>'TicketFreeTime3', 'TicketFreeTime4', 'TicketFreeTime5', 'TicketFreeTime6', 'ArticleTree', 'SolutionInMin', 'SolutionDiffInMin', 'FirstResponseInMin', 'FirstResponseDiffInMin'];</pre>

Ticket::Frontend::AgentTicketSearch###ArticleCreateTime

Description	Value
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>

Ticket::Frontend::AgentTicketSearch###Defaults###Fulltext

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}-> {'Defaults'}->{'Fulltext'} = '';</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketNumber

Description	Value
Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0

Description	Value
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketNumber'} = '';</code>

Ticket::Frontend::AgentTicketSearch###Defaults###Title

Description	Value
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>

Ticket::Frontend::AgentTicketSearch###Defaults###From

Description	Value
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>

Ticket::Frontend::AgentTicketSearch###Defaults###To

Description	Value
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>

Ticket::Frontend::AgentTicketSearch###Defaults###Cc

Description	Value
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>

Ticket::Frontend::AgentTicketSearch###Defaults###Subject

Description	Value
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>

Ticket::Frontend::AgentTicketSearch###Defaults###Body

Description	Value
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>

Ticket::Frontend::AgentTicketSearch###Defaults###CustomerID

Description	Value
Description:	Defines the default shown ticket search attribute for ticket search screen.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'CustomerID'} = '';</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###CustomerUserLogin

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'CustomerUserLogin'} = '';</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###StateIDs

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'StateIDs'} = [];</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###QueueIDs

Description	Value
Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0

Description	Value
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'QueueIDs'} = [];</code>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketCreateTimePoint

Description	Value
Description:	Default data to use on attribute for ticket search screen. Example: "TicketCreateTimePointFormat=year;TicketCreateTimePointStart=Last;TicketCreateTimePointEnd=Now"
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketCreateTimePoint'} = '';</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketCreateTimeSlot

Description	Value
Description:	Default data to use on attribute for ticket search screen. Example: "TicketCreateTimeStartYear=2010;TicketCreateTimeStartMonth=10;TicketCreateTimeSlot=10"
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketCreateTimeSlot'} = 10;</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketChangeTimePoint

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketChangeTimePoint'} = '';</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketChangeTimeSlot

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketChangeTimeSlot'} = '';</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketCloseTimePoint

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketCloseTimePoint'} = '';</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketCloseTimeSlot

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketCloseTimeSlot'} = '';</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###ArticleCreateTimePoint

Description	Value
Description:	Defines the default shown ticket search attribute for ticket search screen.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'ArticleCreateTimePoint'} = '';</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###ArticleCreateTimeSlot

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'ArticleCreateTimeSlot'} = '';</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###SearchInArchive

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'SearchInArchive'} = '';</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeTime1

Description	Value
Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0

Description	Value
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeTime1'} = '';</code>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeTime2

Description	Value
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'}->{'TicketFreeTime2'} = '';</code>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeTime3

Description	Value
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'}->{'TicketFreeTime3'} = '';</code>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeTime4

Description	Value
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'}->{'TicketFreeTime4'} = '';</code>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeTime5

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeTime5'} = '';</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeText1

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeText1'} = [];</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeText2

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeText2'} = [];</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeText3

Description	Value
Description:	Defines the default shown ticket search attribute for ticket search screen.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeText3'} = [];</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeText4

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeText4'} = [];</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeText5

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeText5'} = [];</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeText6

Description	Value
Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0

Description	Value
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeText6'} = [];</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeText7

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeText7'} = [];</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeText8

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeText8'} = [];</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeText9

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeText9'} = [];</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeText10

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeText10'} = [];</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeText11

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeText11'} = [];</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeText12

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeText12'} = [];</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeText13

Description	Value
Description:	Defines the default shown ticket search attribute for ticket search screen.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeText13'} = [];</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeText14

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeText14'} = [];</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeText15

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeText15'} = [];</pre>

Ticket::Frontend::AgentTicketSearch###Defaults###TicketFreeText16

Description	Value
Description:	Defines the default shown ticket search attribute for ticket search screen.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewSearch
Valid:	0

Description	Value
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::AgentTicketSearch'}->{'Defaults'}->{'TicketFreeText16'} = [];</pre>

Ticket::Frontend::CustomerTicketSearch###SearchArticleCSVTree

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketSearch'}->{'SearchArticleCSVTree'} = '0';</pre>

Frontend::Agent::Ticket::ViewStatus

Ticket::Frontend::AgentTicketStatusView###ViewableTicketsPage

Description	Value
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>

Ticket::Frontend::AgentTicketStatusView###SortBy::Default

Description	Value
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

Description	Value
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketStatusView'}- >{'SortBy::Default'} = 'Age';</pre>

Ticket::Frontend::AgentTicketStatusView###Order::Default

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::AgentTicketStatusView'}- >{'Order::Default'} = 'Down';</pre>

Frontend::Agent::Ticket::ViewZoom

Ticket::Frontend::PlainView

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::PlainView'} = '0';</pre>

Ticket::Frontend::ZoomExpand

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::ZoomExpand'} = '0';</pre>

Ticket::Frontend::ZoomExpandSort

Description	Value
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>

Ticket::ZoomAttachmentDisplayCount

Description	Value
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>

Ticket::ZoomTimeDisplay

Description	Value
Description:	Displays the accounted time for an article in the ticket zoom view.
Group:	Ticket
SubGroup:	Frontend::Agent::Ticket::ViewZoom
Valid:	0
Required:	0
Config-Setting:	<code>\$Self->{'Ticket::ZoomTimeDisplay'} = '0';</code>

Ticket::Frontend::TicketArticleFilter

Description	Value
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

Description	Value
Required:	1
Config-Setting:	<code>\$Self->{'Ticket::Frontend::TicketArticleFilter'} = '0';</code>

Ticket::Frontend::HTMLArticleHeightDefault

Description	Value
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>

Ticket::Frontend::HTMLArticleHeightMax

Description	Value
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>

Ticket::Frontend::ZoomRichTextForce

Description	Value
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'} = '0';</code>

Frontend::Agent::TicketOverview

Ticket::Frontend::Overview###Small

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::Overview'}->{'Small'} = { 'CustomerInfo' => '1', 'Module' => 'Kernel::Output::HTML::TicketOverviewSmall', 'Name' => 'Small', 'NameShort' => 'S' };</pre>

Ticket::Frontend::OverviewSmall###ColumnHeader

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::OverviewSmall'}->{'ColumnHeader'} = 'LastCustomerSubject';</pre>

Ticket::Frontend::Overview###Medium

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::Overview'}->{'Medium'} = {</pre>

Description	Value
	<pre>'CustomerInfo' => '0', 'Module' => 'Kernel::Output::HTML::TicketOverviewMedium', 'Name' => 'Medium', 'NameShort' => 'M', 'TicketActionsPerTicket' => '0' };</pre>

Ticket::Frontend::Overview###Preview

Description	Value
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', 'Name' => 'Preview', 'NameShort' => 'L', 'StripEmptyLines' => '0', 'TicketActionsPerTicket' => '0' };</pre>

Frontend::Agent::ToolBarModule

Frontend::ToolBarModule###1-Ticket::AgentTicketQueue

Description	Value
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',</pre>

Description	Value
	<pre>'Action' => 'AgentTicketQueue', 'CssClass' => 'QueueView', 'Link' => 'Action=AgentTicketQueue', 'Module' => 'Kernel::Output::HTML::ToolBarLink', 'Name' => 'Queue view', 'Priority' => '1010010' };</pre>

Frontend::ToolBarModule###2-Ticket::AgentTicketStatus

Description	Value
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', 'Link' => 'Action=AgentTicketStatusView', 'Module' => 'Kernel::Output::HTML::ToolBarLink', 'Name' => 'Status view', 'Priority' => '1010020' };</pre>

Frontend::ToolBarModule###3-Ticket::AgentTicketEscalation

Description	Value
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', 'CssClass' => 'EscalationView', 'Link' => 'Action=AgentTicketEscalationView', 'Module' => 'Kernel::Output::HTML::ToolBarLink', 'Name' => 'Escalation view', 'Priority' => '1010030' };</pre>

Frontend::ToolBarModule###4-Ticket::AgentTicketPhone

Description	Value
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', 'Link' => 'Action=AgentTicketPhone', 'Module' => 'Kernel::Output::HTML::ToolBarLink', 'Name' => 'New phone ticket', 'Priority' => '1020010' };</pre>

Frontend::ToolBarModule###5-Ticket::AgentTicketEmail

Description	Value
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' => 'l', 'Action' => 'AgentTicketEmail', 'CssClass' => 'EmailTicket', 'Link' => 'Action=AgentTicketEmail', 'Module' => 'Kernel::Output::HTML::ToolBarLink', 'Name' => 'New email ticket', 'Priority' => '1020020' };</pre>

Frontend::ToolBarModule###6-Ticket::TicketResponsible

Description	Value
Description:	Agent interface notification module to see the number of tickets an agent is responsible for.
Group:	Ticket

Description	Value
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', 'Module' => 'Kernel::Output::HTML::ToolBarTicketResponsible', 'Priority' => '1030010' };</pre>

Frontend::ToolBarModule###7-Ticket::TicketWatcher

Description	Value
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', 'Module' => 'Kernel::Output::HTML::ToolBarTicketWatcher', 'Priority' => '1030020' };</pre>

Frontend::ToolBarModule###8-Ticket::TicketLocked

Description	Value
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',</pre>

Description	Value
	<pre>'CssClassNew' => 'Locked New', 'CssClassReached' => 'Locked Reached', 'Module' => 'Kernel::Output::HTML::ToolBarTicketLocked', 'Priority' => '1030030' };</pre>

Frontend::ToolBarModule###9-Ticket::TicketSearchProfile

Description	Value
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>

Frontend::ToolBarModule###10-Ticket::TicketSearchFulltext

Description	Value
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::ToolBarTicketSearchFulltext', 'Name' => 'Fulltext-Search', 'Priority' => '1990020', 'Size' => '10' };</pre>

Frontend::Customer

Ticket::Frontend::CustomerTicketOverviewSortable

Description	Value
Description:	Controls if customers have the ability to sort their tickets.
Group:	Ticket
SubGroup:	Frontend::Customer
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketOverviewSortable'} = '';</pre>

Ticket::Frontend::CustomerTicketOverviewCustomEmptyText

Description	Value
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>

Frontend::CustomerUser::Item###9-OpenTickets

Description	Value
Description:	Customer item (icon) which shows the open tickets of this customer as info block.
Group:	Ticket
SubGroup:	Frontend::Customer
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Frontend::CustomerUser::Item'}->{'9-OpenTickets'} = { 'Action' => 'AgentTicketSearch',</pre>

Description	Value
	<pre>'Attributes' => 'StateType=Open;', 'CSS' => 'Core.Agent.CustomerUser.OpenTicket.css', 'CSSClassNoOpenTicket' => 'NoOpenTicket', 'CSSClassOpenTicket' => 'OpenTicket', 'Module' => 'Kernel::Output::HTML::CustomerUserGenericTicket', 'Subaction' => 'Search', 'Target' => '_blank', 'Text' => 'Open Tickets' };</pre>

CustomerFrontend::CommonObject###QueueObject

Description	Value
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:	<pre>\$Self->{'CustomerFrontend::CommonObject'}- >{'QueueObject'} = 'Kernel::System::Queue';</pre>

CustomerFrontend::CommonObject###TicketObject

Description	Value
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:	<pre>\$Self->{'CustomerFrontend::CommonObject'}- >{'TicketObject'} = 'Kernel::System::Ticket';</pre>

CustomerFrontend::CommonParam###Action

Description	Value
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

Description	Value
Required:	1
Config-Setting:	<pre>\$Self->{'CustomerFrontend::CommonParam'}- >{'Action'} = 'CustomerTicketOverView';</pre>

CustomerFrontend::CommonParam###TicketID

Description	Value
Description:	Default ticket ID used by the system in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'CustomerFrontend::CommonParam'}- >{'TicketID'} = '';</pre>

Frontend::Customer::ModuleMetaHead

CustomerFrontend::HeaderMetaModule###2-TicketSearch

Description	Value
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>

Frontend::Customer::ModuleRegistration

CustomerFrontend::Module###CustomerTicketOverView

Description	Value
Description:	Frontend module registration for the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::ModuleRegistration

Description	Value
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self->{'CustomerFrontend::Module'}- >{'CustomerTicketOverView'} = { 'Description' => 'Overview of customer tickets', 'NavBar' => [{ 'AccessKey' => 'm', 'Block' => '', 'Description' => 'My Tickets', 'Link' => 'Action=CustomerTicketOverView;Subaction=MyTickets', 'LinkOption' => '', 'Name' => 'My Tickets', 'NavBar' => '', 'Prio' => '110', 'Type' => '' }, { 'AccessKey' => 'c', 'Block' => '', 'Description' => 'Company Tickets', 'Link' => 'Action=CustomerTicketOverView;Subaction=CompanyTickets', 'LinkOption' => '', 'Name' => 'Company Tickets', 'NavBar' => '', 'Prio' => '120', 'Type' => '' }], 'NavBarName' => 'Ticket', 'Title' => 'Overview' }; </pre>

CustomerFrontend::Module###CustomerTicketMessage

Description	Value
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' => [</pre>

Description	Value
	<pre> { 'AccessKey' => 'n', 'Block' => '', 'Description' => 'Create new Ticket', 'Link' => 'Action=CustomerTicketMessage', 'LinkOption' => '', 'Name' => 'New Ticket', 'NavBar' => '', 'Prio' => '100', 'Type' => '' }], 'NavBarName' => 'Ticket', 'Title' => 'New Ticket' }; </pre>

CustomerFrontend::Module###CustomerTicketZoom

Description	Value
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>

CustomerFrontend::Module###CustomerTicketPrint

Description	Value
Description:	Frontend module registration for the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	

Description	Value
	<pre>\$Self->{'CustomerFrontend::Module'}- >{'CustomerTicketPrint'} = { 'Description' => 'Customer Ticket Print Module', 'NavBarName' => '', 'Title' => 'Print' };</pre>

CustomerFrontend::Module###CustomerZoom

Description	Value
Description:	Frontend module registration for the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::ModuleRegistration
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerFrontend::Module'}- >{'CustomerZoom'} = { 'Description' => 'compat mod', 'NavBarName' => '', 'Title' => '' };</pre>

CustomerFrontend::Module###CustomerTicketAttachment

Description	Value
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>

CustomerFrontend::Module###CustomerTicketSearch

Description	Value
Description:	Frontend module registration for the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::ModuleRegistration

Description	Value
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' => '', 'Prio' => '300', 'Type' => '' }], 'NavBarName' => 'Ticket', 'Title' => 'Search' }; </pre>

Frontend::Customer::Preferences

CustomerPreferencesGroups###ShownTickets

Description	Value
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', }; </pre>

Description	Value
	<pre>'Module' => 'Kernel::Output::HTML::PreferencesGeneric', 'PrefKey' => 'UserShowTickets', 'Prio' => '4000' };</pre>

CustomerPreferencesGroups###RefreshTime

Description	Value
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>

Frontend::Customer::Ticket::ViewNew

Ticket::Frontend::CustomerTicketMessage###NextScreenAfterNewTicket

Description	Value
Description:	Determines the next screen after new customer ticket in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1

Description	Value
Required:	1
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::CustomerTicketMessage'}- >{'NextScreenAfterNewTicket'} = 'CustomerTicketOverView';</pre>

Ticket::Frontend::CustomerTicketMessage###Priority

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::CustomerTicketMessage'}- >{'Priority'} = '1';</pre>

Ticket::Frontend::CustomerTicketMessage###PriorityDefault

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::CustomerTicketMessage'}- >{'PriorityDefault'} = '3 normal';</pre>

Ticket::Frontend::CustomerTicketMessage###Queue

Description	Value
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

Description	Value
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::CustomerTicketMessage'}- >{'Queue'} = '1';</pre>

Ticket::Frontend::CustomerTicketMessage###QueueDefault

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::CustomerTicketMessage'}- >{'QueueDefault'} = 'Postmaster';</pre>

Ticket::Frontend::CustomerTicketMessage###Service

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::CustomerTicketMessage'}- >{'Service'} = '1';</pre>

Ticket::Frontend::CustomerTicketMessage###SLA

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::CustomerTicketMessage'}- >{'SLA'} = '1';</pre>

Ticket::Frontend::CustomerTicketMessage###StateDefault

Description	Value
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:	<pre>\$Self- >{'Ticket::Frontend::CustomerTicketMessage'}- >{'StateDefault'} = 'new';</pre>

Ticket::Frontend::CustomerTicketMessage###ArticleType

Description	Value
Description:	Defines the default type for article in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::CustomerTicketMessage'}- >{'ArticleType'} = 'webrequest';</pre>

Ticket::Frontend::CustomerTicketMessage###SenderType

Description	Value
Description:	Sender type for new tickets from the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::CustomerTicketMessage'}- >{'SenderType'} = 'customer';</pre>

Ticket::Frontend::CustomerTicketMessage###HistoryType

Description	Value
Description:	Defines the default history type in the customer interface.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::CustomerTicketMessage'}- >{'HistoryType'} = 'WebRequestCustomer';</pre>

Ticket::Frontend::CustomerTicketMessage###HistoryComment

Description	Value
Description:	Comment for new history entries in the customer interface.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self- >{'Ticket::Frontend::CustomerTicketMessage'}- >{'HistoryComment'} = '';</pre>

CustomerPanelSelectionType

Description	Value
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:	<pre>\$Self->{'CustomerPanelSelectionType'} = 'Queue';</pre>

CustomerPanelSelectionString

Description	Value
Description:	Determines the strings that will be shown as receipt (To:) of the ticket in the customer interface. For Queue as CustomerPanelSelectionType, "<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

Description	Value
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'CustomerPanelSelectionString'} = '<Queue>';</pre>

CustomerPanelOwnSelection

Description	Value
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:	<pre>\$Self->{'CustomerPanelOwnSelection'} = { 'Junk' => 'First Queue', 'Misc' => 'Second Queue' };</pre>

CustomerPanel::NewTicketQueueSelectionModule

Description	Value
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:	<pre>\$Self->{'CustomerPanel::NewTicketQueueSelectionModule'} = 'Kernel::Output::HTML::CustomerNewTicketQueueSelectionGeneric';</pre>

Ticket::Frontend::CustomerTicketMessage###TicketFreeText

Description	Value
Description:	Ticket free text 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###AttributesView.
Group:	Ticket

Description	Value
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self- >{'Ticket::Frontend::CustomerTicketMessage'}- >{'TicketFreeText'} = { '1' => '0', '10' => '0', '11' => '0', '12' => '0', '13' => '0', '14' => '0', '15' => '0', '16' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0', '7' => '0', '8' => '0', '9' => '0' }; </pre>

Ticket::Frontend::CustomerTicketMessage###TicketFreeTime

Description	Value
Description:	Ticket free time 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###AttributesView.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self- >{'Ticket::Frontend::CustomerTicketMessage'}- >{'TicketFreeTime'} = { '1' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0' }; </pre>

Ticket::Frontend::CustomerTicketMessage###ArticleFreeText

Description	Value
Description:	Article free text 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###AttributesView.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewNew
Valid:	1
Required:	0
Config-Setting:	<pre> \$Self- >{'Ticket::Frontend::CustomerTicketMessage'}- >{'ArticleFreeText'} = { '1' => '0', '2' => '0', '3' => '0' }; </pre>

Frontend::Customer::Ticket::ViewSearch

Ticket::CustomerTicketSearch::SearchLimit

Description	Value
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:	<pre> \$Self- >{'Ticket::CustomerTicketSearch::SearchLimit'} = '5000'; </pre>

Ticket::CustomerTicketSearch::SearchPageShown

Description	Value
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

Description	Value
Required:	1
Config-Setting:	<pre>\$Self- >{'Ticket::CustomerTicketSearch::SearchPageShown'} = '40';</pre>

Ticket::CustomerTicketSearch::SortBy::Default

Description	Value
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:	<pre>\$Self- >{'Ticket::CustomerTicketSearch::SortBy::Default'} = 'Age';</pre>

Ticket::CustomerTicketSearch::Order::Default

Description	Value
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:	<pre>\$Self- >{'Ticket::CustomerTicketSearch::Order::Default'} = 'Down';</pre>

Ticket::Frontend::CustomerTicketSearch###ExtendedSearchCondition

Description	Value
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

Description	Value
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketSearch'}->{'ExtendedSearchCondition'} = '1';</pre>

Ticket::Frontend::CustomerTicketSearch###TicketFreeText

Description	Value
Description:	Ticket free text options shown in the ticket search screen in the customer interface. Possible settings: 0 = Disabled and 1 = Enabled.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewSearch
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketSearch'}->{'TicketFreeText'} = { '1' => '0', '10' => '0', '11' => '0', '12' => '0', '13' => '0', '14' => '0', '15' => '0', '16' => '0', '2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0', '7' => '0', '8' => '0', '9' => '0' };</pre>

Ticket::Frontend::CustomerTicketSearch###TicketFreeTime

Description	Value
Description:	Ticket free time options shown in the ticket search screen in the customer interface. Possible settings: 0 = Disabled and 1 = Enabled.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewSearch
Valid:	1
Required:	0
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketSearch'}->{'TicketFreeTime'} = { '1' => '0',</pre>

Description	Value
	<pre>'2' => '0', '3' => '0', '4' => '0', '5' => '0', '6' => '0' };</pre>

Ticket::Frontend::CustomerTicketSearch###SearchCSVData

Description	Value
Description:	Data used to export the search result in CSV format.
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewSearch
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketSearch'}- >{'SearchCSVData'} = ['TicketNumber', 'Age', 'Created', 'Closed', 'State', 'Priority', 'Lock', 'CustomerID', 'CustomerName', 'From', 'Subject'];</pre>

Frontend::Customer::Ticket::ViewZoom

Ticket::Frontend::CustomerTicketZoom###NextScreenAfterFollowUp

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}- >{'NextScreenAfterFollowUp'} = 'CustomerTicketOverView';</pre>

Ticket::Frontend::CustomerTicketZoom###ArticleType

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'ArticleType'} = 'webrequest';</pre>

Ticket::Frontend::CustomerTicketZoom###SenderType

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'SenderType'} = 'customer';</pre>

Ticket::Frontend::CustomerTicketZoom###HistoryType

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'HistoryType'} = 'FollowUp';</pre>

Ticket::Frontend::CustomerTicketZoom###HistoryComment

Description	Value
Description:	Defines the history comment for the ticket zoom action, which gets used for ticket history in the customer interface.

Description	Value
Group:	Ticket
SubGroup:	Frontend::Customer::Ticket::ViewZoom
Valid:	1
Required:	1
Config-Setting:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'HistoryComment'} = '';</pre>

Ticket::Frontend::CustomerTicketZoom###Priority

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'Priority'} = '1';</pre>

Ticket::Frontend::CustomerTicketZoom###PriorityDefault

Description	Value
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:	<pre>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'PriorityDefault'} = '3 normal';</pre>

Ticket::Frontend::CustomerTicketZoom###State

Description	Value
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:	

Description	Value
	<code>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'State'} = '1';</code>

Ticket::Frontend::CustomerTicketZoom###StateDefault

Description	Value
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>

Ticket::Frontend::CustomerTicketZoom###StateType

Description	Value
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:	<code>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'StateType'} = ['open', 'closed'];</code>

Ticket::Frontend::CustomerTicketZoom###AttributesView

Description	Value
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:	<code>\$Self->{'Ticket::Frontend::CustomerTicketZoom'}->{'AttributesView'} = {</code>

Description	Value
	<pre> 'ArticleFreeText1' => '0', 'ArticleFreeText2' => '0', 'ArticleFreeText3' => '0', 'Owner' => '0', 'Priority' => '1', 'Queue' => '1', 'Responsible' => '0', 'SLA' => '0', 'Service' => '0', 'State' => '1', 'TicketFreeText1' => '0', 'TicketFreeText10' => '0', 'TicketFreeText11' => '0', 'TicketFreeText12' => '0', 'TicketFreeText13' => '0', 'TicketFreeText14' => '0', 'TicketFreeText15' => '0', 'TicketFreeText16' => '0', 'TicketFreeText2' => '0', 'TicketFreeText3' => '0', 'TicketFreeText4' => '0', 'TicketFreeText5' => '0', 'TicketFreeText6' => '0', 'TicketFreeText7' => '0', 'TicketFreeText8' => '0', 'TicketFreeText9' => '0', 'TicketFreeTime1' => '0', 'TicketFreeTime2' => '0', 'TicketFreeTime3' => '0', 'TicketFreeTime4' => '0', 'TicketFreeTime5' => '0', 'TicketFreeTime6' => '0', 'Type' => '0' }; </pre>

Frontend::Queue::Preferences

QueuePreferences###Comment2

Description	Value
Description:	Parameters of the example queue attribute Comment2.
Group:	Ticket
SubGroup:	Frontend::Queue::Preferences
Valid:	0
Required:	0
Config-Setting:	<pre> \$Self->{'QueuePreferences'}->{'Comment2'} = { 'Block' => 'TextArea', 'Cols' => '50', </pre>

Description	Value
	<pre>'Desc' => 'Define the queue comment 2.', 'Label' => 'Comment2', 'Module' => 'Kernel::Output::HTML::QueuePreferencesGeneric', 'PrefKey' => 'Comment2', 'Rows' => '5' };</pre>

Frontend::SLA::Preferences

SLAPreferences###Comment2

Description	Value
Description:	Parameters of the example SLA attribute Comment2.
Group:	Ticket
SubGroup:	Frontend::SLA::Preferences
Valid:	0
Required:	0
Config-Setting:	<pre>\$Self->{'SLAPreferences'}->{'Comment2'} = { 'Block' => 'TextArea', 'Cols' => '50', 'Desc' => 'Define the sla comment 2.', 'Label' => 'Comment2', 'Module' => 'Kernel::Output::HTML::SLAPreferencesGeneric', 'PrefKey' => 'Comment2', 'Rows' => '5' };</pre>

Frontend::Service::Preferences

ServicePreferences###Comment2

Description	Value
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',</pre>

Description	Value
	<pre> 'Module' => 'Kernel::Output::HTML::ServicePreferencesGeneric', 'PrefKey' => 'Comment2', 'Rows' => '5' }; </pre>

Appendix C. Credits

OTRS is an open source project, and we wish 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.

The following persons have especially pushed the project or are still active supporters:

- Robert Kehl, who created the Win32-installer for the 1.x releases. Thanks a lot, Robert!
- Torsten Werner, who maintains the Debian-installer for OTRS. Thanks a lot, Torsten, by making OTRS also available for the Debian community.
- Nils Jeppe (mirror Hamburg, Germany), Bryan Fullerton (mirror Toronto, Canada), Eberhard Mönkeberg (mirror Göttingen, Germany), Timo Dreger (mirror Düsseldorf, Germany) and Netmonic (mirror Vienna, Austria), who are mirroring our FTP server. Thanks a lot, with your help it is always possible to download OTRS quickly!
- Anja Schneider, who is helping with the translation of this manual and with the correction and revision of the German texts. Many thanks for your help and patience, Anja!
- We receive many ideas via the OTRS mailing lists for system improvements, patches or bugfixes. Great support for all users is always available there. Thanks a lot to all people on the mailing lists for your active assistance!

Also we want to give a big thank you to the following persons:

- Martin Scherbaum
- Carsten Gross
- Harald Müller
- Stefan Schmidt
- Milisav Radmanic
- Uli Hecht
- Norman Walsh
- Heiko Baumann
- Atif Ghaffar
- Pablo Ruiz Garcia
- Dan Rau
- Christoph Kaulich
- Mark Jackson
- Diane Shieh
- Bernard Choppy

- Carl Bailey
- Phil Davis
- Edwin D. Vinas
- Lars Müller
- Vladimir Gerdjikov
- Fred van Dijk
- Sebastien Guilbaud
- Wiktor Wodecki
- Arnold Ligtoet
- Antti Kämäräinen
- Nicolas Goralski
- Gilberto Cezar de Almeida
- Jorge Becerra
- Eddie Urenda
- Stella Power
- Andreas Haase
- Reiner Keller
- Covert Jake
- Moshe Leibovitch
- Björn Jacke
- Remo Catelotti
- Alfons Obermeyer
- Michael Rech
- Danie Theron
- Richard Paradies
- Art Powell

Appendix D. GNU Free Documentation License

Version 1.1, March 2000

Copyright (C) 2000 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

PREAMBLE

The purpose of this License is to make a manual, textbook, or other written document "free" in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or non-commercially. Secondly, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you".

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document, that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters), and contains nothing that could fall directly within that overall subject. (For example, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, whose contents can be viewed and edited directly and straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats, suitable for input to text formatters. A copy made in an otherwise Transparent file format, whose markup has been designed to thwart or discourage subsequent modification by readers is not Transparent. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include: plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML designed for human modification. Opaque formats include: PostScript, PDF, proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or non-commercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

COPYING IN QUANTITY

If you publish printed copies of the Document numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a publicly-accessible computer-network location, containing a complete Transparent copy of the Document, free of added material, which the general network-using public has access to download anonymously, at no charge, using public-standard network protocols. If you use the latter option, you must take reasonably prudent steps, when you begin

distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location, until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

- A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.
- B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has less than five).
- C. State on the Title page the name of the publisher of the Modified Version, as the publisher.
- D. Preserve all the copyright notices of the Document.
- E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.
- F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.
- G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.
- H. Include an unaltered copy of this License.
- I. Preserve the section entitled "History", and its title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version, as stated in the previous sentence.
- J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.
- K. In any section entitled "Acknowledgements" or "Dedications", preserve the section's title, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

L. Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

M. Delete any section entitled "Endorsements". Such a section may not be included in the Modified Version.

N. Do not retitle any existing section as "Endorsements" or to conflict in title with any Invariant Section.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties--for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections entitled "History" in the various original documents, forming one section entitled "History"; likewise combine any sections entitled "Acknowledgements", and any sections entitled "Dedications". You must delete all sections entitled "Endorsements."

COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a

single copy that is included in the collection, provided that you follow the rules of this License, for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, does not as a whole count as a Modified Version of the Document, provided no compilation copyright is claimed for the compilation. Such a compilation is called an "aggregate", and this License does not apply to the other self-contained works thus compiled with the Document, on account of their being thus compiled, if they are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one quarter of the entire aggregate, the Document's Cover Texts may be placed on covers that surround only the Document within the aggregate. Otherwise they must appear on covers around the whole aggregate.

TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections, in addition to the original versions of these Invariant Sections. You may include a translation of this License provided that you also include the original English version of this License. In case of a disagreement between the translation and the original English version of this License, the original English version will prevail.

TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided for under this License. Any other attempt to copy, modify, sublicense or distribute the Document is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See <http://www.gnu.org/copyleft/>.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation.

How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

Copyright (c) YEAR YOUR NAME. Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.1 or any later version published by the Free Software Foundation; with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST. A copy of the license is included in the section entitled "GNU Free Documentation License".

If you have no Invariant Sections, write "with no Invariant Sections" instead of saying which ones are invariant. If you have no Front-Cover Texts, write "no Front-Cover Texts" instead of "Front-Cover Texts being LIST"; likewise for Back-Cover Texts.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.