

Documentation

OTRS::ITSM 2.0 - Basic

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OTRS::ITSM 2.0 - Basic

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Preface

The document at hand addresses OTRS::ITSM users and administrators and provides information on the basic use of OTRS::ITSM by IT service managers, IT service staff (agent) and end users (customer). Information regarding installation, configuration and administration is only provided if there are differences to the OTRS core product or for functions, which only exist in OTRS::ITSM.

In spite of the many many hours of work, even more cups of coffee and quite a few sausages and pretzels consumed in the course of writing the following sections, this manual does not claim to be complete. The chapters will be revised and/or amended periodically for continual improvement.

We welcome your feedback as a critical contribution to the best possible quality of the following chapters and of the product itself. Please tell us if you miss information, find it difficult to understand certain aspects the way they are presented, have suggestions or other comments. Any feedback submitted at http://otrs.org is highly appreciated.

We are very proud of the product at hand and want to thank the ITIL experts of Enterprise Consulting GmbH and our top-notch OTRS developers. Their joint efforts have significantly contributed to the successful development of OTRS::ITSM.

We want to thank you, the users and OTRS::ITSM community, in advance for any kind of aid and feedback and hope you will have fun using OTRS::ITSM.

André Mindermann, Managing Partner OTRS AG

Bad Homburg, May 2007

((enjoy))



Chapter 1. OTRS::ITSM - The OTRS for IT service management

IT is expected to deliver consistently high service quality in an increasingly complex field. In this context, effective and efficient incident and problem management are indispensable. However, IT service management remains a task almost impossible if there is no consistent and up-to-date database with information about the state and configuration of the IT infrastructure.

The IT Infrastructure Library®, short ITIL®, is a series of books published by the United Kingdom's Office of Government Commerce (OGC), which generically combine best practice approaches to designing, providing, operating and managing IT services. ITIL does not center the technology but the services provided by the IT and comprises information on processes, roles, responsibilities, potential problem fields/resolutions and definitions of terms.

ITIL has established itself as de facto standard over the past years and its circulation in IT organizations contributed considerably to the development of a collective awareness and consistent terminology for IT service management. However, ITIL only describes "who should do what" and what should be considered along the way. In order to cover as wide a user group as possible, it does not or only rudimentarily address the issue of how to do things. Therefore, no implementable information is given for particular industries, companies or manufacturers.

In December 2005, the ITIL based ISO/IEC 20000 industry standard for IT service management was published. IT organizations can apply for ISO/IEC 20000 certification and prove their conformity.

The continuing boom caused demand for IT service management tools, which could represent the ITIL-based processes. So far, only proprietary solutions existed. Because of their considerable complexity, most of these tools are only affordable for large companies and effective in large IT departments.

The development of OTRS::ITSM was initiated as a logical consequence of the great success of the Open Ticket Request System OTRS in order to combine the globally accepted, public ITIL recommendations with the benefits of open-source software.

OTRS::ITSM 1.0 was the first real-world ITIL compliant IT service management solution on open-source basis, built on the solid fundament of over 55,000 known OTRS installations and the related active community (information dating from April 2007). OTRS::ITSM is under permanent development and new ITIL topics are added continously.

Core objective of the development of OTRS::ITSM is a strong praxis orientation. This aim can be accomplished by the close development collaboration with Enterprise Consulting GmbH from Bad Homburg, which is very experienced in the practical application of ITIL. Additionally to providing ITSM consulting services and solutions, Enterprise operates complete ITIL compliant IT organizations for renowned customers.

The service-desk and ticket system solution OTRS forms the basis for the operation of the ITIL compliant IT service management solution OTRS::ITSM, its incident management, problem management, service level management and configuration management modules and the integrated CMDB.

OTRS::ITSM and OTRS are freely available (no license fees apply) and are subject to GNU General Public License (GPL).

1. Features

OTRS::ITSM 2.0 is based on the Open Ticket Request System OTRS 2.4. All functionalities known from OTRS continue to be available and the functionalities representing ITIL processes can be installed as packages.



1.1. New OTRS::ITSM 2.0 features

OTRS::ITSM 2.0 offers:

• Change Management

The new OTRS::ITSM package "ITSMChangeManagement" implements the ITIL discipline Change Management.

1.2. New OTRS::ITSM 1.3 features

OTRS::ITSM 1.3 is based on the Open Ticket Request System OTRS 2.4

It offers the same features as OTRS::ITSM 1.2, but runs on the OTRS 2.4 framework.

1.3. New OTRS::ITSM 1.2 features

OTRS::ITSM 1.2 is based on the Open Ticket Request System OTRS 2.3

OTRS::ITSM 1.2 offers:

Modularization

From now on the additional ITSM packages covering single ITIL disciplines like incident management / problem management, configuration management, service level management, can be installed independently from each other. To you as a user that means that you neither have to install the packages in a certain installation order nor that you have to install them all to use OTRS::ITSM.

Reduced reloads

ITSM functionalities (e. g. priority calculation based on a tickets impact) have been reimplemented in AJAX technology to reduce necessary reloads. That leads to an increased speed using OTRS::ITSM.

• Joint Link-Object mechanism

OTRS::ITSM 1.1 and lower releases were designed based on an own extended Object-Link mechanism. As a consequence, the Object-Link functionality of OTRS couldn't be used in OTRS::ITSM. A joint Object-Link mechanism has now been implemented, which covers all the features from both former Link object mechanisms.

Improved speed

The improvement to faster access the Configuration Items (CI) database has been achieved by switching database access technology to SQL bind parameters.

Locations

Locations are no longer a separate menu item. They are now integrated into the Configuration Items, which will bring a sustainable gain in flexibility.

• SLA-Service multi-assignments

It is now possible to assign an SLA to multiple Services.

SLA Overwiew

In the service menu, there is now a new SLA overwiew mask.

Refresh-Mechanism

Added a refresh mechanism to refresh the service overview and the config item overview screens automatically.



1.4. New OTRS::ITSM 1.1 features

OTRS::ITSM 1.1 offers:

• Authorization concept

Each object like Service/SLA, Location, CI, Linkobject now creates an own group, so the agents rights can be assigned more granulary.

Allocation of services to customers

Services can be assigned to authorized customers. Further more, services may be assigned as general 'default services' which are valid to use for each customer.

• Service/Cl view

A view on services and CIs including information on each objects current state allows to analyze an incident and calculate the incidents impact on affected services and customers. As an enhancement of the service view, now SLAs and linked CIs are displayed too. For each CI the current incident state is shown. Also, the incident state will be propagated for dependent SLAs and CIs. If a service is selected, the service details will be shown, now with the additional 'current incident state', which is calculated from the incident states of dependent services and CIs.

Cls are now enhanced with a 'current incident state', which includes two state types:

- Operational
- Incident

For each state type any number of states can be registered. The state of a CI affects the service state, which will be dynamically calculated, and can have one of the following three values:

- Operational (green)
- Warning (yellow)
- Incident (red)

The propagation of the incident state will be carried out if CIs are linked with the link type 'depend on'. Here the following rules apply:

- If a CI is dependent from another CI, which is in the state 'Incident', the dependent CI gets the state 'Warning'.
- If a service is dependent from CIs, and one of these CIs has a state 'Incident', the service will also get the state 'Incident'.
- If a service is dependent from CIs, and one of these CIs has the state 'Warning', the service will also get the state 'Warning'.
- If a service has sub-services, and one of these services has the state 'Incident', the parent service will get the state 'Warning'.
- If a service has sub-services, and one of these services has the state 'Warning', the parent service will get the state 'Warning'.

The states of the respective services, sub-services and CIs will be shown in the view.



A service agent may search, select and assign any of a customers configuration items (CIs) or existing tickets while recording a new incident ticket.

• CMDB Import/Export (CSV and API)

This feature offers the possibility to import or update data from CSV files into the CMBD of OTRS::ITSM, and to export data from the CMDB to CSV files. Each line of the CSV file describes one CI, with the data of the CI in the columns.

The import and export is controlled with ImEx definitions. These definitions map the columns of the CSV file to the fields in the CMDB. You can create an ImEx definition via the admin interface in OTRS. For each available field in the CMDB, the corresponding column in the CSV file needs to be defined. This is done in a form, which represents the current CI definition. Also, a filter can be applied, to limit the number of the exported Cls. Any number of ImEx definitions can be stored in the system, and each definition can be used for import and for export.

To start an import (exports work the same way), two possibilities exist: interactive with the web interface, or automatically with a script. Using the interactive way, the desired ImEx definition is selected, and then the CSV file is uploaded to the system. During the interactive export, the CSV file will be offered for download respectively.

The automatic import is carried out via a script, which needs the name of the ImEx definition and the name of the CSV file as arguments. During the script based export, the CIs that were given the script as arguments, will be saved in a CSV file. Before the execution of the import or export, the selected ImEx definition will be compared with the current CI definition. If inconsistencies were found, the process will be cancelled. Also, during import, restrictions in the CI definition (e.g. mandatory fields) will be checked. If applicable, the data record is rejected, but the import process continues. An import protocol can be found in the syslog. Via the API the CSV based import/export can be replaced or enhanced by other formats/transports, like direct database access or XML. The implementation of the CSV interface can be used as a reference.

• A huge variety of additional reports have been created, e.g.:

Basic reports for tickets and configuration items (CIs):

- Total of all ever created tickets per ticket-type and priority (state, queue, service).
- Monthly overview of all ever created tickets of a previous month per ticket-type (priority, state, queue, service).
- Total of created tickets in a defined period per ticket-type and priority (state, queue, service).
- Total of all open tickets per ticket-type and priority (queue, service).
- Total of all configuration items (CIs) created per class (per state).
- Total of all configuration items (CIs) created in a previous month per class (per state).
- Total of all configuration items (CIs) created in a defined period per class (per state).

Much more reports have been added providing specific data regarding first time solution rate and average resolution time:

- First time solution rate of all ever created tickets per ticket-type and priority (queue, service).
- First time solution rate in a previous month per ticket-type (priority, queue, service).



- First time solution rate in a defined period per ticket-type and priority (queue, service).
- Average resolution time of all ever created tickets per ticket-type and priority (queue, service).
- Average resolution time in a previous month per ticket-type and priority (queue, service).
- Average resolution time in a defined period per ticket-type and priority (queue, service).
- Added print function for CIs, Services, SLAs, Locations.

1.5. OTRS::ITSM 1.0 features

OTRS::ITSM 1.0 offers:

- ITIL compliant representation of "service support" processes
 - incident management
 - problem management
 - configuration management
- an integrated, individually extensible configuration management database (CMDB)
- ITIL compliant names for new functions
- ITIL compliant role, responsibility and permission model
- cross-process communication management: within the IT service organization, with customers/users/management and suppliers/providers
- flexible stats functions for (trend) analyses; reporting, planning and controlling based on performance figures
- flexible configuration, customization and upgrade to meet individual requirements
- native ticket types are supported (integrated in OTRS): Various ticket types can be managed in the admin interface. Free-text fields are therefore no longer needed to specify ticket types. Installations using free-text fields for ticket type classification do not have to be migrated. The new feature is also shown in the ticket content and in the print view for agents and customers and can be adjusted in the agent interface.

Configuration management & integrated CMDB:

OTRS::ITSM is based on an integrated configuration management data base (CMDB), which serves as the fundament for the comprehensive control of the service management processes. It represents the configuration items (CI), their complex relationships and interdependencies with each other and with other components of the service chain.

- Comprehensive recording and management of ITSM relevant configuration items (CIs) such as computers, hardware, software, networks, documents and services, SLAs and organizational structures.
- Illustration of the IT service catalog and agreements in force (SLA, OLA, UC)
- Recording, management and illustration of technical and service related relationships and interdependences among CMDB data, e.g. a service with all necessary, alternative or relevant Cls



- Management of historic, current and future CI states, e.g. for problem diagnosis, server maintenance or planned changes
- Analysis of the potential impact of service failures or configuration changes
- Display of virtualized IT infrastructures, e.g. server / memory virtualization
- Software license management, e.g. licenses available / in use (third party products required)
- Chronological life cycle management for CIs, from acquisition to disposal
- Reporting of all configuration changes performed on CMDB data
- Interface to company directories (e.g. LDAP, eDirectory, Active Directory)

Incident management:

- Services and SLAs (integrated in OTRS): The new attributes "service" and "service level agreements (SLA)" were integrated in OTRS 2.2 on its way to becoming an IT service management tool. When creating a ticket, the customer can select a service (e.g. email service) and a corresponding SLA. SLA attributes are "response time", "update time" and "solution time". IT service can use these attributes for notifications or ticket escalation in order to meet existing SLAs. Service and SLA specific information in the header of new e-mails can be analyzed as usual with the PostMaster filter module.
- Comprehensive support of IT service support organization processes with incident recording, classification, prioritization, direct help (1st level support), diagnosis, coordination (2nd/3rd level support, external partners etc.), service recovery, resolution, closure and documentation
- Incidents and service requests can be recorded quickly and intuitively by service desk staff and users (web self-service)
- Rule-based ticket generation and/or notification, e.g. in interaction with IT monitoring systems
- Classification and prioritization options (priority, impact, urgency)
- Complete CMDB coverage, e.g. services affected by the incident, configuration items concerned, FAQ database, link-up between tickets and CIs for analyses and reporting
- (Automatic) recording of "articles" for tickets (activity record)
- Constant monitoring and evaluation of the ticket processing progress
- complete integration of OTRS role, group and queue mechanisms for incident ticket allocation, tracking, escalation and interpretation
- Provision and storage of relevant time data, e.g. for service level management
- practical ticket handling (merge, split), allows to merge similar incidents and/or split complicated ones
- planning, proactive control and monitoring of service request activities (work packages, work plans, service lead times, due dates)
- generation and tracking of problem tickets from incidents

Problem management:

• comprehensive support of IT organization processes in problem identification, recording, classification, prioritization, problem origin diagnosis, resolution coordination, e.g. workaround or request for change, closure and documentation



- provision of relevant information for subprocesses
 - problem control (trouble-shooting),
 - error control (error processing),
 - proactive problem management (e.g. ticket trend analyses) and
 - management information (on incidents, problems and known errors)
- current/historic incidents, knowledge base (FAQs) and CMDB are constantly available
- complete integration of OTRS role, group and queue mechanisms to allocate, track, escalate and evaluate incident tickets
- systematic automated notifications on the problem resolution progress for users (user groups) concerned or the management
- incident management receives ready signal for resolved problems

Tickets are central information containers for IT service process management: They transport multiple possible underlying data such as:

- persons, organizations
- time stamp
- priority, impact, severity
- associations to IT service catalog and projects
- activities, e.g. note about a call with time accounting
- objects, e.g. Cls, including relations
- (sub)tickets, e.g. a problem with the underlying incidents
- notes and attachments, e.g. scanned service request forms
- work packages, i.e. planned, allocated tasks
- SLA information
- thresholds and escalation data
- ticket history (all changes)
- accounting information (time accounting).

2. Hardware and software requirements

The requirements for OTRS::ITSM are the same as for OTRS. More information can be found in the OTRS Admin Manual.

3. Community

A large community evolved around OTRS in the past years. Users and developers use mailing lists to share their insights about a wide variety of issues connected with the trouble ticket system. They address questions about installation, configuration, use, localization and development. Bugs can be reported using the bug tracking system at http://bugs.otrs.org (http://bugs.otrs.org/). They directly reach the developers responsible and fixes can be provided quickly.



The above mentioned community channels are open for OTRS::ITSM users, too, to constantly improve the product's quality. You can join the community at our homepage http:// otrs.org (http://otrs.org/).

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About Home News Archive Screenhots Demo System Feature List Logos Prinise Source Download CVS Access Support Documentation Mailing Lists	OTRS is an Open source Ticket Bequest System (a tocket system) with many features to manage custo e-mails. The system is built to allow your support, internal IT, helpdesk, etc. department to react quic you receive many e-mails and want to answer then You're going to love the OTRS! It is distributed under the GNU General Public Lice Linux, Solaris, AIX, FreeBSD, OpenBSD, Mac OS The ((otrs)) company provides commercial service training, pre-build-systems, etc.) for the OTRS (Eng Try our <u>demo system</u> to get an impression of this k	mer telephone calls and sales, pre-sales, billing, kty to inbound inquiries. Do m with a team of agents? ense (GPL) and tested on 10x and Windows. es (e.g. support, consulting, glish and German).	
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OTRS 2.2 will be	OTRS is one of the most advanced Open Source pr email management software. It follows a clear desi extensible to adapt it to individual needs. The alrea ticket management tasks which should be suitable whole system is really remarkable, it simply does not thousand emails per day it always behaves reliably email traffic you should really give OTRS a try.	gn, yet completely modular and easily dy availaible features provide a good set of for usual purpose. The scalability of the	
published in 40 days.		Milisav Radmanic, Director Internal IT, SuSE Linux AG	
Community	News (top 15)		
OTRS in Japan! http://otrs.kidanet.com/	2007-05-07 OTRS 2.2.0 beta3 (Ipanema) is rel	eased!	
OTRS in the Netherlands! <u>http://otrs.nl/</u>	The OTRS Team is pleased to an Changes: Fixed bug #1788 - On W	nouncet the release of OTRS 2.2.0 beta3. Vindows, the caching XML data did not work; Fixed bug ng, OTRS did not set UTF-8 for the MYSOL database	

4. Mailing lists

Separate mailing lists have been set up for OTRS::ITSM. Please visit http://lists.otrs.org (http://lists.otrs.org/):

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Welcome!		
and change the preferences of '/' and the list name appended		n unadvertised list, open a URL similar to this one, but with a
List administrators, you can	visit <u>the list admin overview page</u> to find the management inter-	face for your list.
Send questions or comments	s to <u>mailman@lists.otrs.org</u> .	
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Chapter 2. Commercial services for OTRS::ITSM

OTRS AG is manufacturer and source code owner of OTRS and all modules based upon it (e.g. OTRS::ITSM) and a professional service provider. Unlike those of proprietary software providers, OTRS AG's business model is not based on license fees: OTRS and OTRS::ITSM are available free of cost and we offer commercial services associated with the software applications instead.

As your capable partner, we provide optimal support in all phases of your OTRS project design, realization and operation. We believe in deploying the most modern methods and our staff are highly skilled experts. This philosophy guarantees credit for powerful business applications and happy customers lauding our service quality (http://www.otrs.com/en/references/).

1. OTRS::ITSM consulting and implementation

Are you planning to use OTRS::ITSM or have found out about OTRS::ITSM in a new product screening and want to assess the system's eligibility for your requirements. Or is your OTRS::ITSM evaluation completed and you want to make use of our consulting services to efficiently lead your project towards success.

We offer extensive practical expertise in IT process consulting, software engineering, development, and ITIL compliant IT operations and support. Security and quality management for your project complement our service portfolio. You benefit from an extensive and quick knowledge transfer.

Our services include:

- identification of your requirements and assistance with product evaluation
- guidance on design and implementation of ITSM process and organizational structures
- ITIL assessments and support with ISO 20000 certification
- ITIL trainings and coaching
- ITIL implementation
- compilation of IT service catalogs
- CMDB design
- installation & configuration of OTRS::ITSM including integration with your existing system environment
- review & optimization of existing OTRS::ITSM installations
- process and data migration from predecessor systems
- release updates
- specification of business and IT requirements and features, which exceed the given functional range of OTRS::ITSM
- design and realization of project complimentary administrator and service agent trainings
- advisory services regarding managed operations (ASP/SaaS) of OTRS::ITSM and application support



2. Software development

One significant advantage of the open-source software OTRS::ITSM is its flexibility regarding potential extensions of the functional range. No "vendor lock-in", a typical risk of proprietary systems and protracted negotiations with the manufacturer about expanding the functional range or building interfaces apply with OTRS::ITSM.

Experienced project managers and developers are at your disposal at any time to translate your requirements exceeding the functional range of OTRS::ITSM into business and IT specifications. We develop your features, program interfaces or upgrade existent functionalities according to your conception.

Extensions, which are useful for other customers too, will be added to the standard in later releases. All parties involved benefit: OTRS::ITSM is even more powerful with the features "born" by you and other customers, and you save the cost of porting your features to new releases.

3. Application support

The decision for an IT service management solution is an investment into the future which should not be underestimated, even if you opt for open-source software. A competent consulting partner is critical for the success of such an implementation project. Just as important, however, is a planned and successful porting of the solution to the life system and the lasting support of a reliable partner guaranteeing a faultless operating application service.

We provide this continuous support and our service packages are tailored flexibly to meet your requirements. They offer differentiated response times for the various service level agreements with up to 24/7/365 support, 24/7/365 access to our support portal, and optional phone support. Please visit http://www.otrs.com/en/support/ for all details or contact our sales team at sales@otrs.com.

You will only pay for the services you really need. Optional add-on packages, e.g. support via remote control or an extension of the application support services to other OTRS::ITSM instances can be booked if required.

Our ITIL compliant operating Application Support Team is continually optimizing its processes and performance. Therefore, our service manager will contact you regularly to discuss your wishes and requirements regarding our services. The monthly service reporting in the service package of your choice serves as a base for these conversations.

4. Managed application services (ASP/SaaS)

You do not have to operate OTRS and/or OTRS::ITSM yourself. The products can be rented via the so called "ASP" (application service provisioning) resp. "SaaS" (software as a service) model from specialized companies.

The customers (software users) are admitted internet access to exclusively rented OTRS systems and, where required, functional application support (see section above) at a fixed monthly price and can employ the application in their business to the contracted extent. No additional license fees apply as only open-source products are used.

The application service provider operates IT infrastructure, systems and software ITIL compliantly and guarantees service quality according to the agreed service levels. The provider maintains the application system, (e.g. patches, backup, monitoring), and supports the customer with incidents and/or service requests such as consultation requests, software extensions or configuration requests.



Chapter 3. Installing OTRS::ITSM

OTRS framework 2.4 must be installed prior to the installation of OTRS::ITSM. All necessary information, options and installation procedures are depicted in the OTRS Admin Manual.

Warning

Installation of the OTRS::ITSM packages requires empty free-text fields 13-16 and free-time fields 3-6 in the complete system!

1. Installation

As soon as OTRS 2.4 or later is installed, sign on as administrator. Using the package manager in the admin area or via ftp://ftp.otrs.org/pub/otrs/itsm/packages20/ and install the ITSM packages in the following order:

- GeneralCatalog
- ITSMCore

If you have internet access from OTRS, use the online repository [--OTRS::ITSM 2.0 Master--] to install the packages below. Otherwise download the packages and use the package manager to install the packages:

- ITSMIncidentProblemManagement
- ITSMConfigurationManagement
- ITSMChangeManagement
- ITSMServiceLevelManagement
- ImportExport

You can find further information about the installation process here: INSTALL-20.ITSM



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	ImportExport		1.2.1	OTRS AG	The ImportExport package.		installed	<u>Uninstall</u>
	ITSMConfiguratio	onManagement	1.2.1	<u>otrs</u> <u>AG</u>	The OTRS::ITSM Configuration package.	n Management	installed	<u>Uninstall</u>
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	ITSMIncidentPro	hle mManage ment	121	OTRS	The OTBS: ITSM Incident and	Problem	installed	Uninstall

2. Upgrade

If an older version than OTRS::ITSM 1.1 is installed, update the system to the latest version 1.1 first.

If OTRS::ITSM 1.1 is installed already, update your OTRS 2.2 framework to version 2.3 BEFORE you update OTRS:ITSM. To do so, download the latest OTRS 2.3 framework and follow the instructions in the file UPGRADING. After that, log in to your system and use the package manager to install the package ITSMUpgradeTo12. You can download it manually or use the online repository. Ignore all error messages about not correctly installed old ITSM packages. This package will install all needed packages to update your system to an OTRS::ITSM 1.2 version, and it will migrate all your data.

Note: The upgrade can take several minutes! Please do not stop the upgrade process once it is running!

If OTRS::ITSM 1.2 is installed already, update your OTRS 2.3 framework to version 2.4 BEFORE you update OTRS:ITSM. To do so, download the latest OTRS 2.4 framework and follow the instructions in the file UPGRADING. After that, log in to your system and use the package manager to install the packages as described in the section "Installation".

To upgrade an already installed OTRS::ITSM 1.3, use the package manager in the admin area. If you have internet access from OTRS, use the online repository [--OTRS::ITSM 2.0 Master--] to install newer packages. An 'upgrade' link next to the package name indicates if a newer package is available.

Otherwise download the packages and use the package manager to install the packages. Do not uninstall your current packages, or your data will get lost!



Chapter 4. First steps in OTRS::ITSM

OTRS::ITSM completely uses the agent and customer interfaces (customer frontend) implemented in OTRS. If OTRS has been used before, all features and steps such as login, queue configuration, user preferences, filters, rules, user permissions etc. can continually be used without any modifications.

The manual at hand will therefore only discuss differences to OTRS and new aspects of OTRS::ITSM and will focus particularly on:

- IT services and SLAs
- the CMDB
- new ticket fields and functions
- ITIL compliant terminology

Detailed information on the settings and proceedings identical in OTRS and OTRS::ITSM are provided at http://doc.otrs.org/2.4/en/html/ in the OTRS Admin Manual, which is constantly being revised.

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OTF	IS 2.2 (en) Copyright © 2003-2008 OTRS AG	
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	OTRS AG essentially follows the notations of the manufacturers. Other products mentioned in this manual	al may
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	IS::ITSM 1.0 (en)	
	S::ITSM 1.0 (de) Table of Contents	
	SM-Manual Preface	
	BS::ITSM 1.2 (en) 1. Basics about trouble ticket systems	
	1.1. What is a trouble ticket system, when do you need it?	
	IS::ITSM 1.1 (en) 1.2. What is a trouble ticket?	
	IS::ITSM 1.1 (de) 2. OTRS - Open Ticket Request System	
	IS::ITSM 1.0 (de) 2.1. Basics IS::ITSM 1.0 (de) 2.2 Features	
Manua	Developer- 2.2.1. New features of OTRS 2.3 1 2.2.2. New features of OTRS 2.2	
	2.2.2. New leatures of OTRS 2.1	



Chapter 5. ITIL compliant service support with OTRS::ITSM

Just as ITIL, OTRS::ITSM does not claim to be an "out-of-the-box" solution for all tasks and questions arising in IT service management. It is in fact supposed to serve as a flexible, stable and easy to understand information platform.

Without the thoughtful adaptation of generic ITIL processes to the individual business situation, OTRS::ITSM will confer no marked improvement core objective of IT service management to IT organization or customer service.

Therefore please excuse our raised finger at this point: The use of an ITIL compliant tool such as OTRS::ITSM only makes sense if processes, people and products (IT services) really are ITIL compliant.

Successful ITIL implementation projects typically take up to a year and longer. A neatly implemented ITIL compliant ITSM tool can help to save time and money though, as the process support of the tool supports and accelerates the process of rethinking.

OTRS::ITSM 2.0 supports the incident and problem management processes, service level management, and configuration management database and change management which usually are designed in the first phase of ITIL implementation. A closer description of use and adaptation of the system can be found in the following sections. The package names correspond to their respective ITIL topics, each package can be installed independently.

Implementation of OTRS::ITSM is based on ITIL v3.



Chapter 6. The CMDB - the central IT repository

The configuration management database (CMDB) is not a database in the technical sense but a conceptual IT model, which is indispensable for efficient IT service management. All IT components and inventories are managed in the CMDB. Configuration management exceeds asset management, often incorrectly used as a synonym, as it does not only document assets from a financial point of view, but captures information regarding the relationship between components, specifications or their location. Thus IT support can quickly access information on the interdependence of IT services and the IT components (= configuration items = CIs) necessary for them.

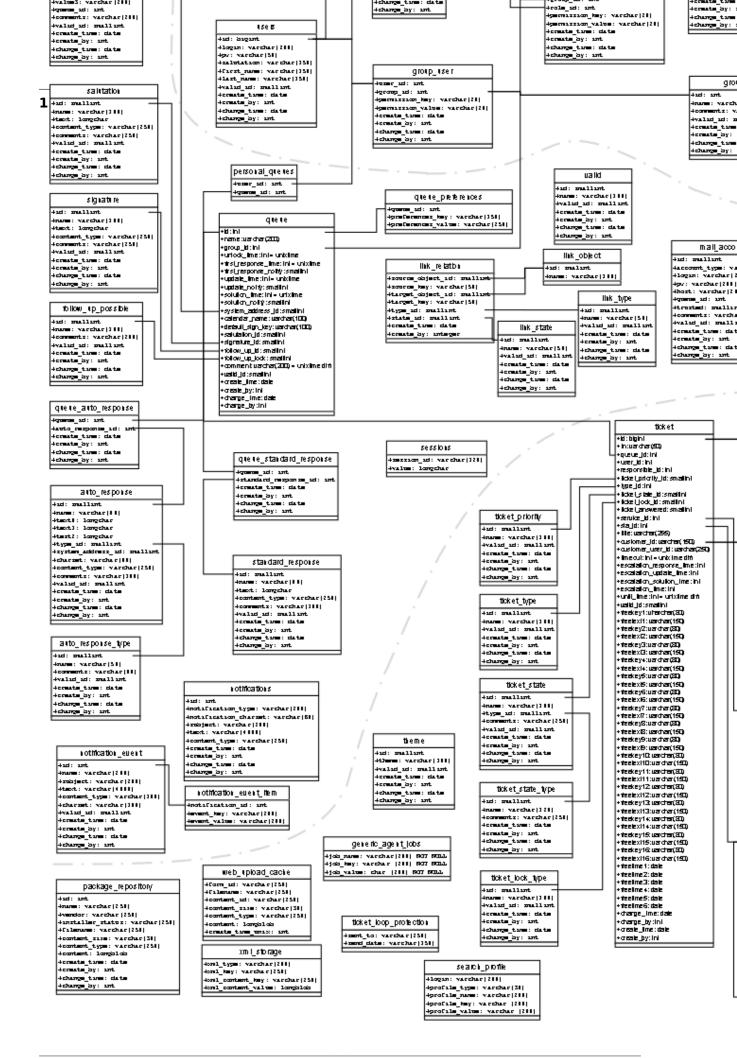
According to ITIL, a CMDB must feature the following functionalities:

- manual and, where applicable, automatic recording and modification of configuration items
- description of the relationship and/or interdependence between CIs
- change of CI attributes (e.g. serial numbers)
- location and user management for CIs
- integration via the ITIL processes represented in the system

OTRS::ITSM meets all requirements stated above and offers numerous additional IT support functions in the CMDB.

1. The OTRS::ITSM database model

The modular architecture of OTRS::ITSM and the ability to install single OTRS::ITSM packages independently, make it difficult to display a complete database model in a single graphic. For this reaeon, separate graphics will be provided for the OTRS framework and for ITSM packages which change or extend the database scheme.





For better readability, the diagram can be found at http://ftp.otrs.org/pub/otrs/misc/ otrs-2.4-database.png.









For better readability, the diagram can be found at http://cvs.otrs.org/viewvc.cgi/GeneralCatalog/doc/general-catalog-database.png?revision=2.0.

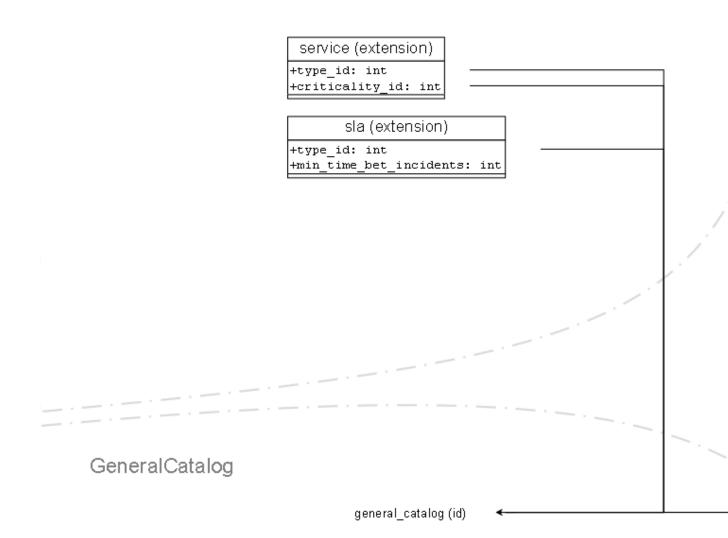


1

OTRS 2.4 Framework

ticket_priority (id)

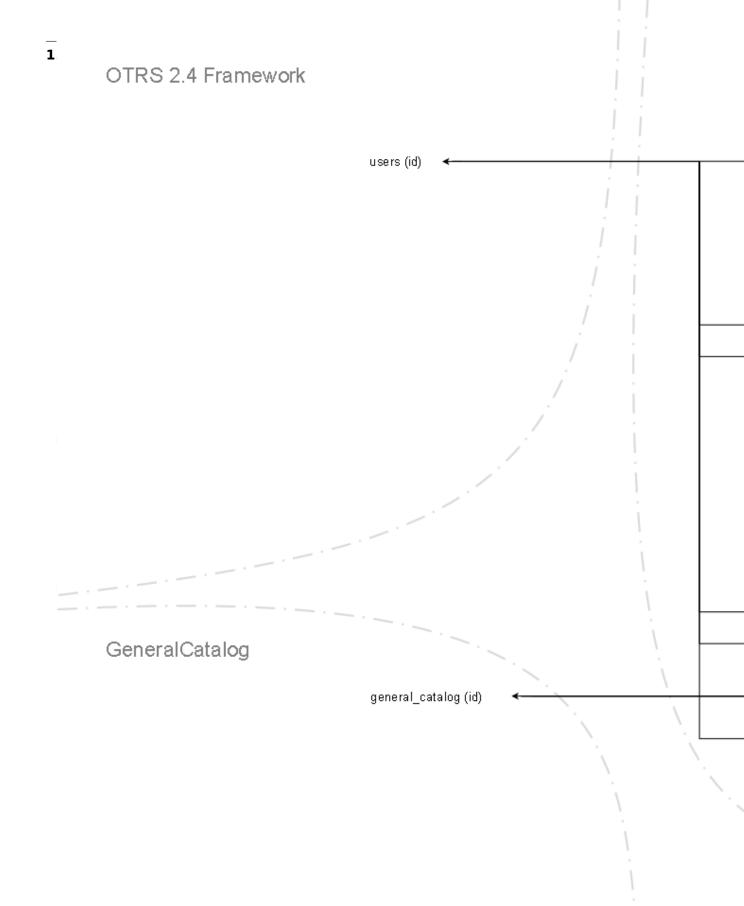
users (id)





For better readability, the diagram can be found at http://cvs.otrs.org/viewvc.cgi/ITSM-Core/doc/itsm-core-database.png?revision=2.0.







For better readability, the diagram can be found at http://cvs.otrs.org/viewvc.cgi/ITSMConfigurationManagement/doc/itsm-configuration-management-database.png?revision=2.0.



1

OTRS 2.4 Framework

change_item

+id: bigint +change_number: varchar(100) +title: varchar(250) +description: varchar(3800) +description_plain: varchar(3800) +justification: varchar(3800) +justification_plain: varchar(3800) +change_state_id: int +change_manger_id: int +change builder id: int +category id: int +impact_id: int +priority id: int +requested time: date +create time: date +create_by: int +change_time: date +change_by: int

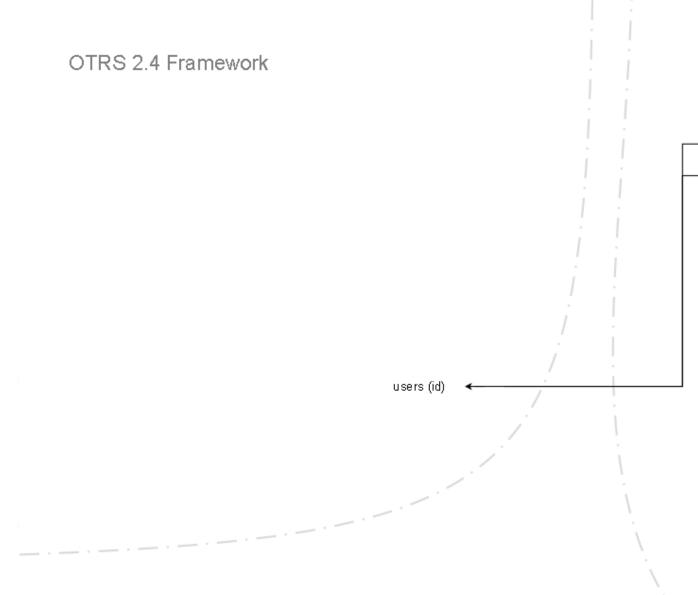
change_cab

+id: bigint +change_id: bighnt +user_id: int +customer_user_id: varchar(250)



For better readability, the diagram can be found at http://cvs.otrs.org/viewvc.cgi/ITSM-ChangeManagement/doc/itsm-change-management-database.png?revision=2.0.







For better readability, the diagram can be found at http://cvs.otrs.org/viewvc.cgi/Import-Export/doc/import-export-database.png?revision=2.0.

2. Services, at the core of everything

Services such as "standard IT workstation", "e-mail" or "web access are IT products and should at all costs be compiled in a so called IT service catalog prior to the adoption of OTRS::ITSM. Such service catalogs are usually customer or company specific, can be structured hierarchically and should be formulated in a user friendly, i.e. easily understood, language, as they can be accessed by IT personnel (agents) and IT users (customers).

Warning

Service catalog design is a task which should not be underestimated. Our experience shows that it is highly recommendable to validate conceptual thoughts in a dry run first and transfer the service structures to OTRS::ITSM in a second step. It has proven of value to resort to external assistance, e.g. of ITIL practice experts.

Example of (part of) a hierarchic IT service catalog specified in OTRS::ITSM as shown when a ticket is created

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Subject:				
Service:	-			
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Owner:	Application Service Application Service::Application Email Service			
Options:	Application Service::Application File Service Application Service::Application Print Service			
Text:	Archive & Restore User Administration			
	User Administration::Application Access			
	User Administration::Authentication User Administration::Door Access			
	User Administration::Email Access User Administration::User Entry			
	User Administration::User Exit User Equipment Service			
	User Equipment Service::Fixed and Mobile Phones			
	Webhosting			
Attachment:	Browse	Attach		
CustomerID: Next ticket state:				
Pending Date (for pending*	open			
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Impact:				
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and in the administration area.



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☆: Don't work with UserID 1 (System a	account)! Crea	ate new users!		
[Admin-Area]				
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	Add	External Internet Services		valid
		Download Service		valid valid
		Mail Service Web Service		valid
		Network Services		valid
		Network - 1 st floor		valid
		Network - 2nd floor		valid
		Subnet - 2nd floor - section 1		valid
		Subnet - 2nd floor - section 2		valid
				Powered by OTRS 2.3.1

3. Service levels and service level agreements

Service levels and the respective agreements (service level agreements, SLAs) document quality pledges for IT services. SLAs are recorded and administered in the admin interface.



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[SLA Management]		[<u>\$/MIME]</u> [<u>PGP</u>]		
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Add a new SLA.	SLA	Service	valid/invalid Changed	Created
А	dd Basic	External Internet Services	valid 08/07/2008 09:42	08/07/2008 09:41
		External Internet Services::Download Service		
		External Internet Services::Mail Service		
		External Internet Services::Web Service		
	Gold	External Internet Services	valid 08/07/2008 09:43	08/07/2008 09:43
		External Internet Services::Download Service		
		External Internet Services::Mail Service		

The following parameters can be recorded with every SLA:

Eile Edit View History Bookmarks Tools Help					
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[OTRS::ITSM 1.2.1]		Admin OTF	1S (root@localhost) 09:08:05 - 08/27/2008		
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A : Don't work with UserID 1 (System account)! Created and a count of the count of	ate new users!				
Users & Groups & Roles	Queue & Responses	System	Misc		
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Add SLA: Add a new SLA.	Edit:				
Add a new sta.	SLA: Type:	Basic Availability			
	Service:	Availability External Internet Services Download Service Mail Service Web Service Network Services			
	Calendar:	Calendar 2 - Calendar Name 2 🜲			
	Escalation - First Response Time: (0 = no escalation - 24 hours = 1440 minutes - Only business hours are counted.)	60 minutes (Notify by 60%	•)		
	Escalation - Update Time (0 = no escalation - 24 hours = 1440 minutes - Only business hours are counted.)	80 minutes (Notify by 60%	•)		
	Escalation - Solution Time (0 = no escalation - 24 hours = 1440 minutes -	400 minutes (Notify by 80%	◆)		



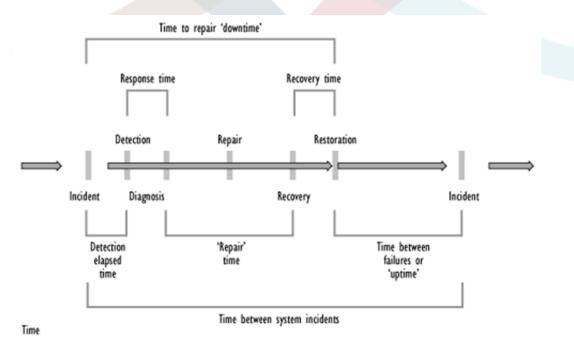
OTRS::ITSM offers up to 99 different calendars by default to describe the various time zones for work or service times. The SLAs can be allocated to them ("service level window"). Various time spans can be entered (in minutes) which OTRS::ITSM uses to control notification and escalation:

- [Response Time]
 - = reaction time with incidents
 - = start of service request procession ("service request lead time")
- [Update Time]
 - = notification time
- [Solution Time]
 - = time elapsed until incidents are resolved ("maximum time to repair", "MTTR")
 - = delivery time for service requests ("delivery time")
- [Min. Time Between Incidents]
 - = "MTBI": minimal time between closure of the last incident ticket and recurrence of an incident for which the same SLA applies.

Warning

If no values for the above-named times are entered in the SLAs, escalation is effected according to the time fields "response time", "update time" and "solution time" assigned to all queues!

Important time values of OTRS::ITSM are based on the "ITIL incident lifecycle":



Source: OGC, ITIL Service Support Documentation

The OTRS stats framework facilitates, among other things, the definition of the actual availability of a service from recorded incidents, which often serves as a performance figure in system-oriented SLAs.



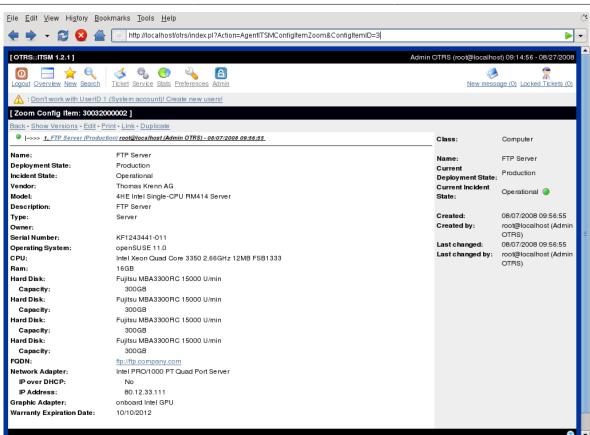
4. Configuration items

Exemplary overview of recorded computer CIs (part) with current CI state:

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🌩 👻 😂	🛿 🔛 📥 💿 http://loca	alhost/otrs/index.pl?Action=AgentITSN	//ConfigItem&ClassID=32		•
[OTRS::ITSM 1.2.	🚖 🔍 🎸 🎭	o 🔌 🔒		Admin OTRS (root@localhost) 09:11	2
Logout Overview N		Stats Preferences Admin		<u>New message (O)</u> L	.ocked Tickets (0)
Overview: Conf	with UserID 1 (System accounting Item 1	nt)! Create new users!			
	n: 2 - Page: <u>1</u> - Config Items a	available: 2			
Class: <u>Computer (</u>)	2) - Hardware (0) - Location	(1) - <u>Network (0)</u> - <u>Software (0)</u>			
		[0	Class: Computer]		
	Number	Name	Deployment State	Last Change	
	30032000002	FTP Server	Production	08/07/2008 09:56:55	
	30032000001	Mac Server (internal)	Production	08/07/2008 09:51:46	
					•
				Powe	ered by OTRS 2.3.1

Example of an individual CI view:





The graphic exemplarily shows the links between CIs. OTRS differentiates between bidirectional and nondirectional links. Whenever a CI is linked to another CMDB object, OTRS::ITSM automatically creates the respective reverse link.

The OTRS::ITSM standard offers seven link types:



Eile Edit ⊻iew History Bo	ookmarks <u>T</u> ools	Help host/otrs/index.pl?Action=AgentLinkObject&Mod	e=Normal&SourceObject=	ITSMConfigItem&Source	eKey=3&TargetIdentifier=ITSMC 🕨 💌
[OTRS::ITSM 1.2.1]	Ticket Service S	Sats Preferences Admin		Admin OTRS (r	oot@localhost) 09:17:00 - 08/27/2008
A : Don't work with UserID					
[Link Object: Configitem#	# 30032000002]				
Back					
Object					
Link Objec	t Configite m# 3003	2000002 with Computer 🗢			
					Select
Search					
Confighter	n#:				
Name:					
Deployme	ent State:	Expired Inactive Maintenance			
Incident S	itate:	Incident Operational Warning			
					Search
Search Re	esult: Configitem (Computer)			
	Confightem#	Name	Deployment State	Created	Linked as
	30032000001	Mac Server (internal)	Production	08/07/2008 09:51:46	
				Alternative to	Link
					Powered by OTRS 2.3.1

To link objects, the source object is chosen first, then the link type is defined and the target object chosen. The target object can be searched for using various criteria:

5. Documents and knowledge database

Using the FAQ system, which is an independent external module since OTRS 2.1, a knowledge database can be designed and managed, e.g. for suggestions and/or procedures related to the resolution of known errors.

Entries can be provided for internal use only, for all customers or the public. They can be created and sorted according to language or categories. The quality of FAQ articles can be evaluated by agents. The number of articles last created or last revised to be displayed can be configured without any limitations. All articles can be indexed for an efficient search.

6. Changes and amendments to the data model

The data model can be adapted flexibly and can be extended with data types, attributes and even classes. Detailed information can be found in the section "The admin area of OTRS::ITSM" in this document or in "The admin area of OTRS" in the OTRS Admin Manual.

Warning

The design of a CMDB data model and the CIs to be managed within it is a task which should not be underestimated. Our experience shows that it is highly recommendable to validate conceptual thoughts in a dry run against the existing IT infrastructure first and change the OTRS::ITSM default data model and CI classes only afterwards. It has proven of value to resort to external assistance, e.g. of ITIL practice experts for CMDB design.



7. Ticket types and attributes

With OTRS 2.2, native ticket types were introduced, which are used in OTRS::ITSM, too. In the ITIL sub-processes which can be structured in queues, tickets are classified on their ticket types.

All ITIL processes to be implemented in later versions of OTRS::ITSM, e.g. change management, will be implemented in such a way. Ticket types such as RfC ("Request for Change") could be created.

<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> o	ols <u>H</u> elp				0
🌩 👻 🎯 🖀 💿 http://	/localhost/otrs/in	idex.pl?Action=AdminType	•		
[OTRS::ITSM 1.2.1]					Admin OTRS (root@localhost) 09:23:16 - 08/27/2008
	2				
Logout Ticket Service Config Item Stats P	references				New message (0) Locked Tickets (0)
1 : Don't work with UserID 1 (System acc	count)! Create ne	ew users!			
[Admin-Area]					
Users & Groups & Roles		Queue & Responses		System	Misc
[Uess] [Groups] [UestomerUsem] [CustomerUsem] [CustomerUsem <> Groups] [CustomerUsem <> Groups] [CustomerUsem <> Services] [Boles <> Uesm] [Boles <> Uesm] [Boles <> Groups]	Attachments	ses] ses <-> Queue]	[Salutation] [Sinatum] [Email Address [Molfitaton] [General Cata [Critically.co- [Contin_tem] [Sinatus] [Status		[PostMasterFiler] [GenerAcgen1] [Admin Hottfication] [Session Nanagemm1] [Performance_comm1] [SwitemLog] [SwitemLog] [SoLBox] [ImportExpot] [SwiContig] [SwiContig] [Package Manager]
Add Type:	Lis	t:			
Add a new Type.	Na	ime	valid/invalid	Changed	Created
		ident	valid	08/07/2008 08:48	08/07/2008 08:48
	Inc	ident::Disaster	valid	08/07/2008 08:48	08/07/2008 08:48
	Inc	ident::ServiceRequest	valid	08/07/2008 08:48	08/07/2008 08:48
	Pro	oblem	valid	08/07/2008 08:48	08/07/2008 08:48
	Pro	oblem::KnownError	valid	08/07/2008 08:48	08/07/2008 08:48
	Pro	oblem::PendingRfC	valid	08/07/2008 08:48	08/07/2008 08:48
	de	fault	invalid	08/07/2008 09:45	08/07/2008 08:41
					•
					Powered by OTRS 2.3.1

Warning

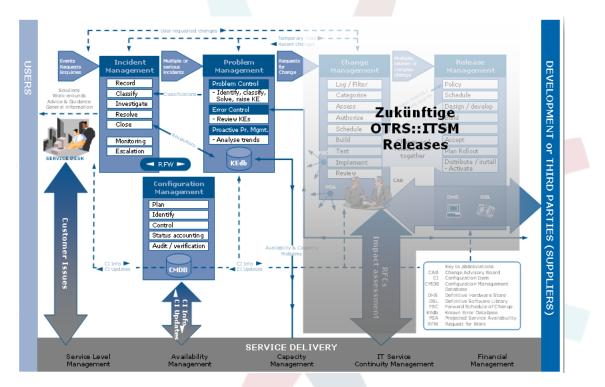
In order to assure the consistency of the data managed in OTRS::ITSM, information created in the admin area of the system cannot be deleted as a general rule. If you want to deactivate such information, change the value in the respective listbox settings from "valid" to "invalid" or "invalid-temporarily".



Chapter 7. Service desk, incident & problem management

The service desk (which, according to ITIL, is not a process but a function) is usually the ticket system's main field of application. All user messages and notifications from system monitoring and internal IT organization meet here. The ITIL service management process describes, closely interweaved with the service desk, which work steps, information, escalations and/or interfaces are relevant in connection with the processing of incidents or service requests.

The incident and problem management processes within OTRS::ITSM are based on ITIL recommendations and ITIL terminology. At the same time, user comfort was a main consideration and terms known from OTRS have been retained as far as possible.



Source: ILX Group (www.ilxgroup.com)

1. Ticket generation, classification and prioritization

At ticket generation in our case a phone ticket the following information can be registered additionally to the information implemented in OTRS:

- ticket type
- relevant service
- SLA
- impact
- priority

Depending on the service selected, impact and priority are automatically submitted from the criticality impact priority matrix but can be overwritten. Requests can thus be prioritized higher or lower, which corresponds to real day-to-day IT business requirements.



Surely every IT service staff member knows a so called VIP customer who wants to be treated more equal than others and can be, this way.

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- 🔶 - 💽 🛞 🏠	http://localhost/otrs/index.pl	•	G• Google	
Logout Queueview Phone-Licket Er	mail-LICKET Search Company Customer Buik-Action Service Contig item Location Stats Preferences Add	nın	New message (3) Locked Lickets	· (3)
A : You have 3 new message (s	<u>1(</u>			
[Phone call / new ticket]				
Туре:	Incident::ServiceRequest 💌			
From:	Michaela Kunz' <michaela.kunz@sunshine.com< th=""><th></th><th>Customer Info: Salutation: Frau</th><th></th></michaela.kunz@sunshine.com<>		Customer Info: Salutation: Frau	
	Search Customer Clear From		Firstname: Michaela	
To:	Service Desk		Lastname: Kunz	
Subject:	Pleas create a shar MAR-Collateral on our fileserver		Username: Michaela.Kunz	
Service:	Application Service::Application File Service			
SLA:	Application File Service 💌			
Owner:	Skywalker Anakin (skywalker) 💌 [All]			
Options:	[^Ø Spell Check] [^Ø Attachments] [²² Customer]			
Text:	Hi,			
	In order to let the MAR team collaborate more efficient, they would like to get a distinct file-space for "Marketing collateral".			
	Kind regards			
	Marry Tiger			
Attachment:	Browse Attach			
CustomerID:	CID008			
Next ticket state:	open 👻			
Pending Date (for pending*				•

By following the ticket content (zoom) link, detailed information about the ticket can be called up. All data relevant for IT support is consolidated in the right hand section:

<u>Eile E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp		** **
💠 🔸 🗧 😂 🖀 💿 http://localhost/otrs/index.pl?Action=AgentTicketZoom&TicketID=2		▶ ▼
[OTRS::ITSM 1.2.1] Admin Image: Constraint of the second	¢.	ost) 09:29:28 - 08/27/2008
▲ : Don't work with UserID 1 (System account)! Create new users!		
[Zoom Ticket#: 20080627300000015] No network connection Back - Lock - History - Print - Priority - Additional ITSM Fields - Link - Owner - Customer - Decision - Note - Merge - Pending -	Cre	[Age: 0 minute] ated:08/27/2008 09:29:23
Close	Type: State:	Incident
From: 'Theo Test' <tt@otrs.org></tt@otrs.org>		Misc unlock root@localhost (Admin OTRS)
	Service: SLA: First Response Time: Solution Time:	External Internet [] Basic 59 minutes 08/27/2008 10:29 6 hours 39 minutes 08/27/2008 16:09
	Criticality: Impact: Priority:	5 very high 3 normal 4 high
	Decision Result: Decision Date: Repair Start Time Recovery Start Time: Due Date: Accounted time:	
	CustomerID:	1
	Customer Info: Firstname: Theo	



2. SLA relevant time information

With the additional ITSM fields link, time information additional to the response, update and solution time provided in the SLA can be recorded and existing information can be changed:

<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> to	ory <u>B</u> ookmarks <u>T</u> ools	Help	2.12 2.12
🔙 🔶 📼 😂 🚳	🗿 🖀 间 http://local	host/otrs/index.pl?Action=AgentTicketAddtlTSMField&TickettD=2	
[OTRS::ITSM 1.2.1]		Anakin Skyw	walker (skywalker@otrs.org) 09:35:51 - 08/27/2008
	ne-Ticket Email-Ticket Sear	N N N N N N N N N N N N N N N N N N N	New message (0) Locked Tickets (0)
	ds of ticket: 200808273	-	THEM THE SALE OF LOCKED TO KED TO KED TO
Back			
Opti	ions		
Title		No network connection	
Rep	pair Start Time:		
	covery Start Time:		
Due	e Date:		
			Submit
			0
			Powered by OTRS 2.3.1

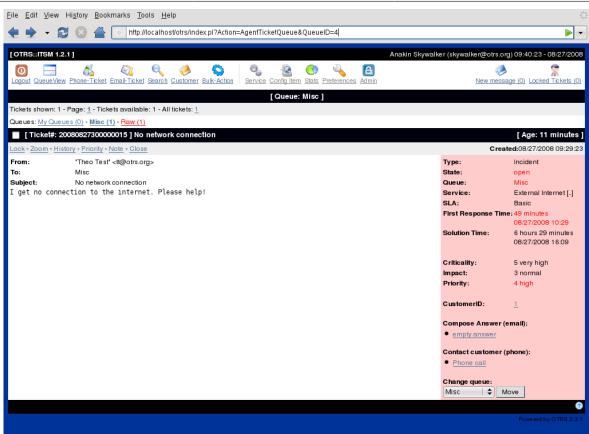
3. Allocate tickets (queues)

The OTRS::ITSM queues can be adapted flexibly to your organizational structures. They can follow the vertical scheme of service desk, first, second and third level support often used in IT service support or be configured in a process oriented manner based on the ticket life cycle of generation, processing, closure and post-processing.

Contrary to OTRS versions prior to version 2.2, ticket escalation in OTRS::ITSM is based first of all on the response, update and recovery times provided in the SLA. If no values are provided in the SLA, escalation is effected based on the queues and time information stored in them.

Tickets can be moved by choosing a new queue in the bottom right corner of the ticket view.





Warning

The design of a queue structure is a task which should not be underestimated. Our experience shows that it is highly recommendable to validate conceptual thoughts in a dry run against the existing IT infrastructure before configuring OTRS::ITSM. It has proven of value to resort to external assistance, e.g. of OTRS or ITIL practice experts for the queue design.

4. Change ticket data

All changes to the ticket can be effected just as in OTRS using the links below the navigation bar.



Eile Edit View History Bookmarks Tools Help		
🔶 🕂 🗧 🔀 🦾 http://localhost/otrs/index.pl?Action=AgentTicketZoom&TicketID=2		
[OTRS::ITSM 1.2.1] Admin 0	OTRS (root@localh	ost) 09:29:28 - 08/27/2008
💽 📄 💰 🏹 🔍 🌾 🦕 Logout QueueView Phone-Ticket Email-Ticket Search Customer Bulk-Action	New mes	sage (0) Locked Tickets (0)
▲ : Don't work with UserID 1 (System account)! Create new users!		
[Zoom Ticket#: 20080827300000015] No network connection		[Age: 0 minute]
Back - Lock - History - Print - Priority - Additional ITSM Fields - Link - Owner - Customer - Decision - Note - Merge - Pending - Close	Cre	ated:08/27/2008 09:29:23
-> 1. customer (phone) "Theo Test" <tt@otrs.org>: No network connection 08/27/2008 09/29</tt@otrs.org>		Incident
From: 'Theo Test' <tt@otrs.org></tt@otrs.org>	State: Queue:	open Misc
To: Misc	Locked:	unlock
Subject: No network connection	Owner:	root@localhost (Admin
Created: 08/27/2008 09:29:23 I get no connection to the internet. Please help!		OTRS)
	Service:	External Internet []
	SLA:	Basic
	First Response Time:	59 minutes 08/27/2008 10:29
	Solution Time:	6 hours 39 minutes 08/27/2008 16:09
	Criticality:	5 very high
	Impact:	3 normal
	Priority:	4 high
	Decision Result:	
	Decision Date:	
	Repair Start Time	:
	Recovery Start Time:	
	Due Date:	
	Accounted time:	0
	CustomerID:	1
	Customer Info:	
	Firstname: Theo	
	1 T	

5. Approvals and decisions

In many cases, especially with service requests, decisions have to be taken before requests can be implemented. Depending on the competence framework, decisions are either taken directly by the service staff (standard changes) or the approval of a supervising manager must be obtained first. This is primarily the case with permission changes (a user wants to access a restricted file system directory) or cost generating requests (new laptop).

In OTRS::ITSM approvals and refusals are shown via the decision link and are permanently saved with the ticket:



<u>E</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp	2). 2)
🖕 🗼 👻 😰 🔕 🐴 🗻 http://localhost/otrs/index.pl?Action=AgentTicketDecision&TicketD=2	
[OTRS::ITSM 1.2.1] Anakin Skywalker (skywalker@otr	
0 🖃 🚳 🔍 🍳 🤌 💊 🧠 🤮 🕙 🔌 🖻	🧼 🤶
	nessage (0) Locked Tickets (0)
[Add decision to ticket: 20080827300000015]	
Back	
Options	
Subject: Decision	
Options: [Ø <u>spell Check</u>][Ø <u>Attachments</u>]	
Text: Reason:	
Attachment: Browse Attach	
Note type: ote-internal ↓	
Decision Result: Approved ↓ ↓	
Decision Date: 08 \$\phi\$ / (27 \$\phi\$ / (2008 \$\phi\$ - 09 \$\phi\$); (42 \$\phi\$) Time units (work units):	
	Submit

6. Generation of problem tickets from incidents

To generate a problem ticket from one or more incidents, generate a new ticket and link it with the relevant incident tickets. This way, the underlying incidents can be processed individually, can be closed with a workaround if necessary and later be substituted with a permanent solution.

A merging of incident and problem tickets obscures the reporting and complicates controlling and the continuous improvement of the IT services.

7. Ticket closure

Unlike the OTRS standard, OTRS::ITSM facilitates ITIL compliant ticket closure with a workaround.

8. Processing of service requests

Service requests are incidents, too and are processed equally. They are distinguishable from disruptions because of the ticket type Incident::Service Request.

Another difference, the SLA relevant times, is explained in greater detail in the service levels and service level agreements section.



	· · · · ·				
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory	Bookmarks Tools Help	?Action=AgentITSMSLAZ	oom&SLAID=2		© ▼
[OTRS::ITSM 1.2.1]	ket Config Item Stats Preferences Admin			Anakin Skywall	trs.org) 09:45:47 - 08/27/2008
Back - Print SLA: Type: Calendar: First Response Time: Update Time: Solution Time: Minimum Time Between Incidents:	Gold Availability Calendar 2 - Calendar Name 2 15 minutes 30 minutes 120 minutes 10080 minutes				08/07/2008 09:43:09 roo@localhost (Admin OTRS) 08/07/2008 09:43:09 roo@localhost (Admin OTRS)
Associated Services					
Service		Туре	Criticality	Changed	
External Internet Se	rvices	Back End	5 very high	08/07/2008 08:53:15	
External Internet Se	rvices::Download Service	Back End	4 high	08/07/2008 08:53:58	
External Internet Se	rvices::Mail Service	Back End	4 high	08/07/2008 08:54:22	
External Internet Se	rvices::Web Service	End User Service	3 normal	08/07/2008 08:54:44	
					Ø
					Powered by OTRS 2.3.1



Chapter 8. Change Management

Change Management, according to ITIL, is a Service Transition process whose purpose is to manage IT changes, including planning, documentation and implementation upon approval and clearance. The objective is to minimize negative effects on the IT infrastructure, particularly on critical services, resulting from ad-hoc or poorly-managed changes or amendments.

1. Change Management Module Requirements

1.1. Required Expertise

The implementation of OTRS::ITSM requires significant technical specification and preparation. Prior to a technical implementation, key elements of the Change Management process, such as required workflows, metrics or reports, must be defined.

1.2. Technical Requirements

The software below is necessary to implement the Change Management module:

- 1. OTRS Framework, version 2.4.5 or higher (2.4.7 is recommended)
- 2. ITSM "GeneralCatalog" package, version 2.0
- 3. ITSM "ITSMCore" package, version 2.0

The following packages are recommended, but from a technical perspective not absolutely necessary:

- ITSM "ITSMIncidentProblemManagement" package, version 2.0
- ITSM "ITSMServiceLevelManagement" package, version 2.0
- ITSM "ITSMConfigurationManagement" package, version 2.0
- ITSM "ImportExport" package, version 2.0

2. Diagram of Change Management in OTRS::ITSM

The Change Management implementation in OTRS::ITSM defines a Change as an alteration of the existing IT landscape, such as the installation of a new mail server.

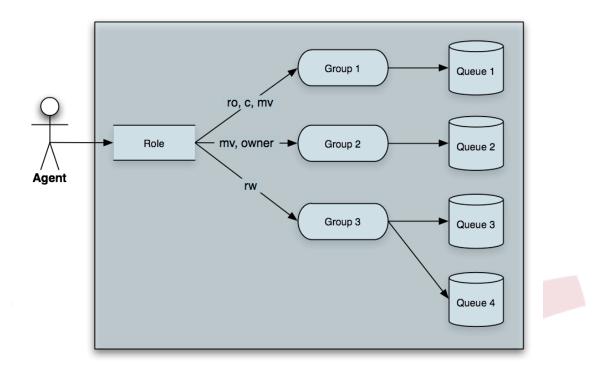
As Changes typically consist of several sub-tasks, OTRS::ITSM allows any number of subtasks to be defined per change. These are known as Work Orders.





3. Available User Roles

Access to the Change Management module is managed on a role-based access concept. The required user roles are created via the OTRS Administrator, according to corresponding user group permissions in the Change Management module.



By installing the OPMs listed under "Technical Requirements", the user groups in the table below will be created:

Table	8.1.	User	roles
	• • • • •		

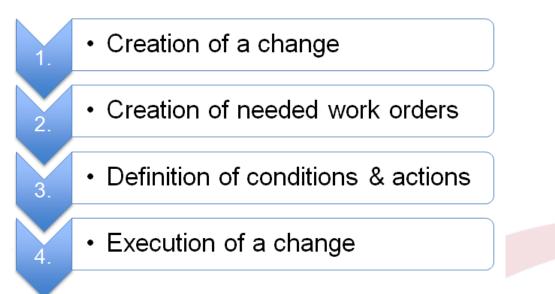
User role	Access and privileges
itsm-change	Members of this user group have access to the Change Management module. All poten- tial Work Order Agents should be assigned to this group.
	All Changes and Work Orders can be viewed by these users.
itsm-change-builder	Members of this user group can create new Changes and Work Orders in the system.
	All Changes and Work Orders can be viewed by this group.
	Changes and Work Orders created by the Change Builder, or that have been defined as accessible to the Change Builder, may be edited by these users.
itsm-change-manager	Members of this user group can create new Changes and Work Orders in the system.
	All Changes and Work Orders can be viewed by this group.



User role	Access and privileges
	These users can edit all Changes and Work Orders.

4. Underlying Workflow

The implementation of a change, including all required Work Orders, follows the underlying workflow shown below.



5. Creating a New Change

5.1. Attributes of a Change

To create a new Change, the following attributes must be entered.

Table 8.2. Attributes of a Change

Attribute	Required Field	Details
Title	Yes	Short description / name of Change
Description	No	Longer text description of the Change
Justification	No	Text explanation of the rea- sons behind the Change; an- swer to the question: "What is the likely consequence if the Change is not imple- mented?"
Category	Yes	Defines the type of Change, e.g "3 normal" etc.
Impact	Yes	Defines the effects or impact the Change will have, eg. "4 high", etc.
Priority	Yes	Defines the priority of the Change, eg. "5 very high", "3 normal", etc



Attribute	Required Field	Details
State	Yes	When creating a new Change, the status is au- tomatically set. When mod- ifying an existing Change, the Change Builder and Change Manager can man- ually set the status. Avail- able status and result status are defined by the integrat- ed State Machine, seeSec- tion 5.3, " Change State Ma- chine " [46].
Requested (by customer) Date	No	If required, this attribute can be deactivated via SysCon- fig for the 'ChangeEdit', 'ChangeAdd' and 'Change- Zoom' templates, and dis- play the customer's desired implementation date.
Attachment	No	Enables related files and documents to be attached

5.2. Category - Impact - Priority Matrix

To determine the priority of a Change, OTRS::ITSM supports the Change Builder through an integrated matrix which suggests a priority for selection, based on the chosen category and change impact entered in the system. This suggested priority can always be overridden by the Change Builder.

The category, impact and priority values given upon installation can be customized in the General Catalog by the administrator.

Priority allocate	e:				
	Category 1 very low	2 low	Category 3 normal	Category 4 high	Category 5 very high
Impact 1 very low	1 very low	1 very low	2 low	2 low	3 normal
2 low	1 very low 🛟	2 low	2 low	3 normal 🛟	4 high
Impact 3 normal	2 low	2 low	3 normal	4 high	4 high
Impact 4 high	2 low	3 normal	4 high	4 high	5 very high 🛟
Impact 5 very high	3 normal	4 high	4 high	5 very high 🛟	5 very high 🛟
					Save

Here, the menu item "General Catalog" should be selected in the OTRS::ITSM Administration interface.

5.2.1. ITSM::Change Management::Category

Upon installation, OTRS::ITSM Change Management generates the following values for the Category selection field:

- 1 very low
- 2 low



- 3 normal
- 4 high
- 5 very high

5.2.2. ITSM::Change Management::Impact

Upon installation, OTRS::ITSM Change Management generates the following values for the Impact selection field:

- 1 very low
- 2 low
- 3 normal
- 4 high
- 5 very high

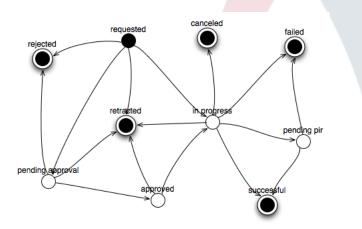
5.2.3. ITSM::Change Management::Priority

Upon installation, OTRS::ITSM Change Management generates the following values for the Priority selection field:

- 1 very low
- 2 low
- 3 normal
- 4 high
- 5 very high

5.3. Change State Machine

OTRS::ITSM features a State Machine which defines valid statuses and possible result statuses for a Change. The standard installation generates suggestions based on the following logic model:



Adjustments to the State Machine can be made by the system administrator in the administration front end, under menu option State Machine. The statuses and possible result statuses should be defined here.



Where necessary, additional statuses can be defined under the menu option "General Catalog" -> "ITSM::Change Management::Change::State". In OTRS::ITSM, this is illustrated as a table:

Overview over state transitions	for Change:	
State	Next State	Delete
<u>*START*</u>	Requested	
Requested	Pending Approval	X
Requested	Rejected	X
Requested	Retracted	X
Pending Approval	Approved	X
Pending Approval	Retracted	X
Rejected	*END*	X
Approved	Retracted	X
Approved	In Progress	X
Approved	Pending Approval	X
In Progress	Canceled	X
In Progress	Failed	X
In Progress	Retracted	x
In Progress	Successful	X
Successful	*END*	X
Failed	*END*	X
Canceled	*END*	x
Retracted	*END*	X

5.4. Defining Participant Roles / Persons Related to a Change

After entering the basic data of the Change, the persons participating in implementation can be defined in the Involved Persons feature.

Involved Persons		
Change Manager: *	"Christopher Kuhn" <ck@otrs.com></ck@otrs.com>	
Change Builder: *	"Werner Siebecke" <werner.siebecke@otrs.com></werner.siebecke@otrs.com>	
Change Advisory B	oard	
Add CAB Template:		Hinzufügen
Add to CAB:		Hinzufügen
Current CAB:	Agent:	
	jd (John Doe)	Löschen
	tt (Theo Test)	Löschen
	ub (Udo Bretz)	Löschen
	SAP (CC 1000) (Werner Siebecke)	Löschen
	Kunde:	
	ub (Udo Bretz)	Löschen
		Übermitteln

Here, the system offers convenient access to all connected client backends and agent backends, such as SQL databases or LDAP directory services. If specified, the CAB can be defined according to an existing CAB template.

Table 8.3. Involved Persons

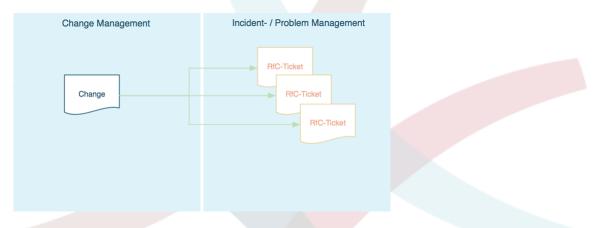
Attribute	Required Field	Details
Change Manager	Yes	Assigns Change Manager privileges to an agent, for the current Change.



Attribute	Required Field	Details
Change Builder	Yes	Defines the agent who processes and defines the current Change. When creat- ing a new Change, the cur- rent agent is automatical- ly entered as the Change Builder.
Change Advisory Board	Νο	Defines a group of people which can include agents and customers.

5.5. Linking a Change with a Request for Change

Through the OTRS Framework's renowned linking mechanism, the system allows a change to be linked to a ticket. In this way, the origin of a change ie. the Request for Change or problem can be easily identified.



Furthermore, it is possible to open the corresponding Change directly from a ticket within the Incident or Problem Management process ie. the ticket system from which it originated. In this case, the system creates a transparent link between the ticket and Change. In the configuration, this feature can be restricted to only those agents who are permitted to create Changes. It is also possible to rescrict the usage of the ticket type "RfC" to only those agents who have access to the Change Management area. Please have a look at the following sysconfig options:

• Ticket -> Core::TicketACL - Ticket::Acl::Module###200-Ticket::Acl::Module

 ITSM ITSMCha 	Change nge::AddChange	Management LinkTicketTypes	->	Core::ITSMChange	-
 ITSM ITSMCha 	Change nge::RestrictTicl	Management (etTypes::Groups	->	Core::ITSMChange	-

5.6. Defining Conditions

OTRS::ITSM allows conditions and actions to be defined based on the attributes of a Change and/or Work Order. Through the administration front-end, these attributes can be activated or deactivated for the Change Builder.

Workflows can be defined here.For example, a workflow to set the entire Change to "canceled" or request review / approval clearance when a Work Order is canceled.



Condition	
Name: *	Test Conditions
Matching:	Any expression All expressions
Valid:	valid
Comment:	
Expressions	
Change 🛟 2010	002031215000011 Category is 4 high Delete
Workorder 🖨 🛛 ITSM	Condition::Selector::any 🗘 WorkOrderState 🗘 is 🗘 Canceled 🗘 Delete
	Add new expression. Add
Actions	
Change 🛟 2010	002031215000011 ChangeState Canceled Delete
Change 🛟 2010	002031215000011 \$ Priority \$ set \$ 5 very high \$ Delete
	Add new action. Add
	Save

It should be noted that the defined conditions are not executed in a certain order; rather, actions are processed in the order they were set.

5.6.1. Conditions Available at the Change Level

The following attributes can be used to define Conditions at the Change level

 Table 8.4. Conditions available at the Change level

Change Attribute	Logical Operator
AccountedTime	is
PlannedEffort	is not
	is empty
	is not empty
	is greater than
	is less than
Category	is
ChangeBuilder	is not
ChangeState	
Impact	
Priority	
ChangeManager	is
	is not
	is empty
	is not empty
ChangeTitle	begins with
	ends with



Change Attribute	Logical Operator	
	contains	
	does not contain	
	is	
	is not	
	is empty	
	is not empty	

5.6.2. Conditions Available at the Work Order Level

The following attributes can be used to define conditions at the Work Order level.

Work Order Attribute	Logical Operator
AccountedTime	is
PlannedEffort	is not
	is empty
	is not empty
	is greater than
	is less than
WorkOrderNumber	is
	is not
	is greater than
	is less than
WorkOrderState	is
WorkOrderType	is not
WorkOrderAgent	
WorkOrderTitle	begins with
	ends with
	contains
	does not contain
	is
	is not
	is empty
	is not empty



5.7. Defining Actions

After the conditions have been established, OTRS::ITSM allows you to define any number of actions to be executed on the current Change or all / one of the Work Orders of the current change.

5.7.1. Actions Available at the Change Level

The following actions can be performed for Change objects. The operator "set" enables the selected attribute to be set at a specific value, if the defined condition is true. On the other hand, the operator "lock" freezes the selected attribute, for as long as the defined condition is true ie. a manual change is not possible.

Table 8.6. Actions available at the Change level

Change Attribute	Action
Category	set
Impact	
Priority	
ChangeState	set
	lock

5.7.2. Actions Available at the Work Order Level

The following actions can be performed for Work Order objects. The operator "set" enables the selected attribute to be set at a specific value, if the defined condition is true. On the other hand, the operator "lock" freezes the selected attribute, for as long as the defined condition is true ie. a manual change is not possible.

Table 8.7. Actions available at the Work Order level

Work Order Attribute	Action
WorkOrderState	set
	lock

5.8. Rescheduling (Postponing) the Start / End Time of a Change

In practice, the planned start or end time of a Change may need to be revised. The system allows the Change Builder to do this with the "Move Time Slot" feature.

Through selector fields, the Change Builder has the ability to shift the planned Change implementation timeframe.

Move Time Slot				
Time type:	Planned start time ¢			
New time:	02 \$ / 09 \$ / 2010 \$ - 08	8 🛟 : 28 🛟 🖽		
				Move

6. Creating a Work Order

Within a Change, the system offers a "Add Work Order" feature which enables any number of sub-tasks (Work Orders) related to a selected Change to be entered.

6.1. Attributes of a Work Order

Once a Change is created, it effectively serves as a container for the definition of subtasks, ie. Work Orders, and these Work Orders can now be defined by the Change Builder.



Attribute	Required Field	Details
Title	Yes	Short description / name of Work Order.
Instruction	No	Longer text description of the Work Order.
Work Order Type	Yes	Selection list to define the type of Work Order, eg. approval, work order, PIR, etc.
Category	Yes	Defines the type of Change, e.g "3 normal" etc.
Impact	Yes	Defines the effects or impact of the Change, eg. "4 high", etc.
Priority	Yes	Defines the priority of the Change, eg. "5 very high", "3 normal", etc.
State	Yes	When creating a new Change, the status is auto- matically set. When modify- ing an existing Change the Change Builder and Change Manager can manually set the status. Available sta- tuses and result statuses are defined by the integrat- ed State Machine, seeSec- tion 5.3, " Change State Ma- chine " [46].
Requested (by customer) Date	No	If required, this attribute can be deactivated via SysCon- fig for the 'ChangeEdit', 'ChangeAdd' and 'Change- Zoom' templates, and dis- play the customer's desired implementation date.
Attachment	No	Enables related files and documents to be attached

Table 8.8. Attributes of a Work Order

In addition to these attributes, the assigned Work Order agent can collect attributes through the "Report" feature, which is explained in detail in the "Work Order Agent Report" chapter.

6.2. Work Order Type

The following entries for the "Work Order Type" attribute are available in the standard installation of OTRS::ITSM Change Management:

- Approval
- Work Order
- Backout
- Decision

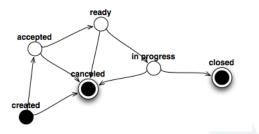


• PIR (Post Implementation Review)

The administrator can freely define and specify Work Order types, as well as add new types.

6.3. Work Order State Machine

OTRS::ITSM features a State Machine which defines valid statuses and possible result statuses for a Work Order. The standard installation generates suggestions based on the following logic model:



Adjustments to the State Machine can be made by the system administrator in the administration front end, under menu option State Machine. The statuses and possible result statuses should be defined here.

Where necessary, additional statuses can be defined under the menu option "General Catalog" -> "ITSM::ChangeManagement::WorkOrder::State".

Verview over state transitions for WorkOrder:				
State	Next State	Delete		
START	Created			
Created	Accepted	X		
Created	Canceled	X		
Accepted	Ready	X		
Accepted	Canceled	X		
Ready	Canceled	X		
Ready	In Progress	X		
In Progress	Canceled	x		
In Progress	Closed	x		
Closed	*END*	x		
Canceled	*END*	×		

In OTRS::ITSM, this is illustrated as a table:

6.4. Defining the Work Order Agent

Each Work Order can be assigned to a so-called Work Order agent, ie. a person responsible for the execution of the Work Order.

The system offers access to all connected agent back-ends here. It is important to note that only agents who have full access rights to the user group "have itsm-change" are displayed.

Workorder Agent			
Workorder Agent:	** agent1 Test Agent 1 (2)		
	agent2 Test Agent 2 (3) root@localhost Admin OTRS (1)	Save]

6.5. Work Order Agent Report

The assigned Work Order agent can document related information such as comments, the actual Work Order start and end times, required processing time and status.



Report	
Report:	BII E E E E E E S C A V Format V Font V Size V V S Source
State:	Created
	Save

6.6. Linking Work Orders to Configuration Items / Services

Within a Work Order, OTRS::ITSM allows linking to other objects.

In the standard installation, a Work Order can be linked to the following objects:

- Cls
 - CI-Class Computer
 - CI-Class Hardware
 - CI-Class Location
 - CI-Class Network
 - CI-Class Software
- Services
- Tickets

These settings are defined via SysConfig under "Framework -> Core::LinkObject" and can be extended when desired.

6.7. Saving a Work Order as a Template

A Work Order can be saved as a template through the "Template" feature, within the Work Order itself.

The dialog box requires the Change Builder to give the template a name and an optional comment. Once the user leaves the dialog box by clicking the "Add" button, the Work Order will be available as a template when a new Work Order is being created.

Save Workorder as	Template	
Template Name: *	Installation of OS-patches	
Comment:	Template to install Mac OS X patches on a client pc	
Valid:	valid	
		Add



6.8. Deleting a Work Order

The Change Builder can delete a Work Order as long as it is not referred to in a Condition (see the "Defining conditions" section).



7. Viewing the Content of a Change

After creating a Change and its associated Work Order, the system has the capability to display other information related to the Change, including corresponding Work Orders, linked tickets and Cls.

ck - History - Edit -	Involved Persons - Add Workorder - Conditions - L	<u>.ink - Template</u>					
						Change State:	Approved 🥥
> 1. > 2. > 3. > 4. > 5.	· ·					Planned Start: Planned End: Actual Start: Actual End:	01/20/2010 14:38:00 02/02/2010 11:01:00 01/22/2010 09:51:00
> 6. > 7. > 8. > 9.	=	_				Requested (by customer) Date:	-
01/20/20 14:38:00	10 01/23/2010 04:18:40 01/25/2010	17:59:20 01/28	/2010 07:40:00	01/30/2010 21:20:40	02/02/2010 11:01:00	Planned Effort: Accounted Time:	42.00 26.00
escription:	The mailserver must be replaced with a new one.	Add some lines here.				Category:	2 standard
stification:	The old mail server is <u>too</u> slow .					Impact: Urgency:	3 All Users Affected 4 high
tachment:	MailServer-Infrastructure.pdf 🧊 4	23.0 KBytes				Change Initiator(s):	root@localhost (Admir OTRS) ub (Udo Bretz)
Linked: ConfigIter	n (Computer)					Change Manager:	root@localhost (Admir OTRS)
ConfigItem#	Name	Deployment Sta			Linked as	Change Builder:	root@localhost (Admir
<u>40167000002</u>		Review	01/25/2010		Peer-2-Peer	change bunder.	OTRS)
<u>40167000001</u>	Sony i8000	To be disposed	01/25/2010	12:20:54	Peer-2-Peer	CAB:	
Linked: Service						CAB:	jd (John Doe) tt (Theo Test) ub (Udo Bretz) SAP (CC 1000) (Wern
Service		Туре	Criticality C	Changed	Linked as		Siebecke)
Email Service			-	11/21/2010 10:09:41	Depends on		ub (Udo Bretz)
	User Request for Information			1/21/2010 10:13:36	Peer-2-Peer	Created: Created by:	01/20/2010 16:02:4 root@localhost (Admir
							OTRS)
Linked: Ticket						Last changed: Last changed by:	02/09/2010 08:56:1 root@localhost (Admin OTRS)
Ticket#	Title	Туре	State	Created	Linked as		0113)
	016 Please provide to me a new std. laptop		pending reminder	14:13:59	Peer-2-Peer		
20100122401000		Incident	open	01/22/2010 16:16:04	Peer-2-Peer		
201001214010000	014 Mailserver should be replaced with a faster machin[]	RfC	open	01/21/2010 10:04:30	Peer-2-Peer		

The defined Work Orders are numbered in order of their planned execution and displayed in a timeline. The color of the displayed Work Order in the timeline reflects their type, and can be customized via SysConfig "ITSM Change Management -> Frontend::Agent::ViewChangeZoom" as required.

The system generates two bars per Work Order in the Change timeline. The upper, darker bar represents the planned Work Order implementation time, while the lower, lighter bar displays the actual Work Order implementation time.

The status of each Work Order is represented by traffic lights, as seen in the following view:

- Gray Work Order is "created"
- Yellow Work Order is "pending approval"



- Green Work Order is "closed"
- Red Work Order is "canceled"

[Zoom Change#: 201	00120401000016] Re	eplacement of mailserv	er in company headqua	rter	
Back - History - Edit - Invol	ved Persons - Add Workorder	- Conditions - Link - Templa	ite		
○ <u> > 1.</u>					
○ <u> > 2.</u>					
○ <u> > 3.</u>					
○ <u> > 4.</u>	=				
I> 5.					
● <u> > 6.</u>					
○ <u> > 7.</u>					
I> 8.					
○ <u> > 9.</u>					
	1		1	I	
01/20/2010	01/23/2010 04:18:40	01/25/2010 17:59:20	01/28/2010 07:40:00	01/30/2010 21:20:40	02/02/2010
14:38:00					11:01:00

8. Change Views

OTRS::ITSM offers a variety of ways to view the Changes saved in the system. Access to these views can be disabled where desired.

8.1. Change Overview

All Changes are displayed in an overview screen, which can be sorted in ascending or descending order per column.

Change#	Change Title G / G	Change Builder Output	Workorders	Change State (2) / (2)	Urgency O / O	Services	Planned Start O / O	Planned End
2010012040100001	6 Replacement of mailserver in company hea[]	SAP (CC 1000) (Werner Siebecke)	9	Pending Approval	4 high	Email Service User Services::User Request for Information	01/20/2010 14:38:00	02/02/2010 11:01:00
2010012240100001	2 Another change	root@localhost (Admin OTRS)	4	Successful	2 low		01/24/2010 11:39:00	01/27/2010 15:35:00
2010012240100002	1 new change	root@localhost (Admin OTRS)	1	In Progress	1 very low	User Services::Provisioning of User Equipment	01/23/2010 21:19:00	01/23/2010 22:19:00
2010012540100001	6 Another change	root@localhost (Admin OTRS)	4	Successful	2 low		01/27/2010 14:15:00	01/29/2010 11:14:00
2010012740100001	2 Austausch Ticketsystems	root@localhost (Admin OTRS)	2	Requested	3 normal		01/27/2010 09:00:00	01/28/2010 15:42:00
2010012740100002	 Replacement of mailserver in company hea[] 	SAP (CC 1000) (Werner Siebecke)	9	Pending Approval	4 high		01/20/2010 14:38:00	02/02/2010 11:01:00
2010020140100001	4 Another change	root@localhost (Admin OTRS)	4	Successful	1 very low		02/03/2010 05:05:00	02/04/2010 14:30:00
2010020140100002	2 Another change	root@localhost (Admin OTRS)	3	Successful	2 low		02/08/2010 03:39:00	02/09/2010 08:00:00
2010020140100003	1 Another change	root@localhost (Admin OTRS)	3	Successful	2 low		01/24/2010 11:39:00	01/25/2010 16:00:00
2010020140100004	<u>k8</u> test	root@localhost (Admin OTRS)	2	Requested	3 normal		02/01/2010 22:15:00	02/12/2010 23:18:00
2010020340100001	1 Another change	root@localhost (Admin OTRS)	3	Successful	2 low		01/24/2010 11:39:00	01/25/2010 16:00:00
2010020340100002	Replacement of mailserver in company hea[]	SAP (CC 1000) (Werner Siebecke)	9	Pending Approval	4 high		02/03/2010 16:29:00	02/16/2010

The columns can be defined via SysConfig "ITSM Change Management -> Frontend::Agent::ViewChangeOverview" with the following available attributes:

Table 8.9. Change Overview

Attribute	Active	Details
ActualStartTime	No	Date and time at which the Change implementation be- gan
ActualEndTime	No	Date and time at which the Change implementation ended



Attribute	Active	Details
Category	No	Category or type of Change
ChangeBuilder	Yes	Change Builder's name
ChangeManager	Yes	Change Manager's name
ChangeNumber	Yes	System generated Change number
ChangeState	Yes	Change status
ChangeStateSignal	Yes	Change status indicator, shown as traffic light
ChangeTitle	Yes	Name of Change
CreateTime	No	Date and time at which the Change was created
Impact	No	Expected effect of the Change
PlannedStartTime	Yes	Planned Change implemen- tation start date and time
PlannedEndTime	Yes	Projected Change implemen- tation end date and time
Priority	Yes	Priority level of the Change
RequestedTime	No	Customer's desired imple- mentation date
Services	Yes	Services affected by the Change
WorkOrderCount	Yes	Number of Work Orders re- lated to the Change

Additionally, the Change Overview can filter and display changes according to various attributes. The following filters are available and can be defined via SysConfig "ITSM Change Management -> Frontend::Agent::ViewChangeOverview":

Table 8.10. Change Overview Filters

Attribute	Details
requested	Displays all changes that have the status "requested"
pending approval	Displays all changes that have the status "pending approval"
rejected	Displays all changes that have the status "rejected"
approved	Displays all changes that have the status "approved"
in progress	Displays all changes that have the status "in progress"
successful	Displays all changes that have the status "successful"
failed	Displays all changes that have the status "failed"
canceled	Displays all changes that have the status "canceled"



Attribute	Details
retracted	Displays all changes that have the status "retracted"

8.2. Change Schedule

In the Change Schedule view, all Changes which have the status "approved" ie. are in the queue for implementation, are displayed. The column titles can be sorted by the following attributes in ascending or descending order:

[Overview: FSC: Approv Filter: Approved (2) Changes: 1-2 of 2 - Page: 1	/ed]						
Change#	Change Title	Change Builder	Workorders	Change State		Planned Start	Planned End
<u>20100120401000016</u>	Replacement of mailserver in company hea[]	root@localhost (Admin OTRS)	9	Approved	4 high	01/20/2010 14:38:00	02/02/2010 11:01:00
20100127401000012	Austausch Ticketsystems	root@localhost (Admin OTRS)	2	Approved	3 normal	01/27/2010 09:00:00	01/28/2010 15:42:00
Changes: 1-2 of 2 - Page: 1							

The displayed attributes can be defined via SysConfig "ITSM Change Management -> Frontend:: Agent:: ViewChangeScheduleOverview":

Table 8.11. Change Schedule

Attribute	Active	Details		
ActualStartTime	No	Date and time at which t Change implementation b gan		
ActualEndTime	No	Date and time at which the Change implementation was completed		
Category	No	Category or type of Change		
ChangeBuilder	Yes	Change Builder's name		
ChangeManager	Yes	Change Manager's name		
ChangeNumber	Yes	System generated Change number		
ChangeState	Yes	Change status		
ChangeStateSignal	Yes	Change status indicator; shown as traffic light		
ChangeTitle	Yes	Name of the Change		
CreateTime	No	Date and time at which the Change was created		
Impact	No	Expected effect of the Change		
PlannedStartTime	Yes	Planned Change implemen- tation start date and time		
PlannedEndTime	Yes	Projected Change implemer tation completion date an time		
Priority	Yes	Priority level of the Change		
RequestedTime	No	Customer's desired implementation date		
Services	Yes	Services affected by the Change		



Attribute	Active	Details
WorkOrderCount	Yes	Number of Work Orders re- lated to the Change

8.3. PIR - Post Implementation Review

This view displays work orders of the "PIR" type, which can be sorted in ascending or descending order by the given column headings.

Overview: PIR: Alle]						
Filter: Alle (3) - Accepted (0) - Ready (3) - In Progress (0) - Closed (0) - Canceled (0) Changes: 1-3 von 3 - Seite: 1						
Workorder#	Workorder Title	Change Title	Workorder Agent	Workorder State	Planned Start	Planned End
<u>20100127401000021-9</u>	Review the completed change	Replacement of mailserver in company hea[]	ck (Christopher Kuhn)	Ready	30.01.2010 10:01:00	02.02.2010 11:01:00
<u>20100120401000016-9</u>	Review the completed change	Replacement of mailserver in company hea[]	ck (Christopher Kuhn)	Ready	30.01.2010 10:01:00	02.02.2010 11:01:00
<u>20100203401000028-9</u>	Review the completed change	Replacement of mailserver in company hea[]	ck (Christopher Kuhn)	Ready	13.02.2010 11:52:00	16.02.2010 12:52:00
Changes: 1-3 von 3 - Seite: 1						

The columns to be displayed can be defined via SysConfig "ITSM Change Management - > Frontend::Agent::ViewPIROverview":

Table 8.12. PIR - Post Implementation Review

Attribute	Active	Details
ActualStartTime	No	Date and time at which the Change implementation be- gan
ActualEndTime	No	Date and time at which the Change implementation was completed
Category	No	Category or type of Change
ChangeBuilder	Yes	Change Builder's name
ChangeManager	Yes	Change Manager's name
ChangeNumber	No	System generated Change number
ChangeState	No	Change status
ChangeStateSignal	No	Change status indicator; shown as traffic light
ChangeTitle	Yes	Name of Change
CreateTime	No	Date and time at which the Change was created
Impact	No	Expected effect of the Change
PlannedStartTime	Yes	Planned Change implemen- tation start date and time
PlannedEndTime	Yes	Projected Change implemen- tation completion date and time
Priority	Yes	Priority level of the Change
RequestedTime	No	Customer's desired imple- mentation date
Services	Yes	Services affected by the Change



Attribute	Active	Details
WorkOrderAgent	Yes	Agent assigned to the PIR
WorkOrderNumber	Yes	Work Order number
WorkOrderState	Yes	Number of Work Orders re- lated to the Change
WorkOrderStateSignal	No	Work Order status indicator to be shown as traffic light
WorkOrderTitle	Yes	Name of the Work Order
WorkOrderType	No	The type of Work Order

8.4. Template

This view displays all the defined templates in the system. The agent can sort the displayed information in ascending or descending order, by the given column headings.

[Overview: Template: All]						
Filter: All (3) - <u>Change (3)</u> - <u>Workorder (0)</u> - <u>CAB (0)</u> - Templates: 1-3 of 3 - Page: 1	Condition (C	<u>)</u>				
Name	Type	Comment	Valid I Valid	Delete	CreateBy	CreateTime
Test Template 1	Change		valid	×	root@localhost (Admin OTRS)	2010-01-25 15:11:05
10.01.3879 Std. Laptop Provisioning - [DT: 3d]	Change	To be used when providing Lenovo Thinkpa[]	valid	×	root@localhost (Admin OTRS)	2010-01-25 15:14:45
Mailserver Template	Change		valid	×	root@localhost (Admin OTRS)	2010-02-03 16:29:22
Templates: 1-3 of 3 - Page: 1						

The columns to be displayed can be defined via SysConfig "ITSM Change Management - > Frontend::Agent::ViewTemplateOverview":

Attribute	Active	Details
ChangeBy	No	Username of the agent who last modified the template
ChangeTime	No	Date and time of the last modification
Comment	Yes	Comments / description of the template
CreateBy	Yes	Username of the agent who created the template
CreateTime	Yes	Date and time at which the template was created
Delete	Yes	Option to delete a chosen template
Name	Yes	Name of the template
TemplateID	No	The template's internal data- base identity
Туре	Yes	Type of template
Valid	Yes	Defines the validity of the template (valid, invalid, and temporarily invalid). In- valid / temporarily invalid templates cannot be used by Change Builders.

Table 8.13.Template



After installing the Change Management module, the following template types are available in the system. These can be defined via SysConfig "ITSM Change Management -> Frontend::Agent::ViewTemplateOverview":

Table 8.14. Template Types

Attribute	Details	
ITSMChange	Templates for Changes	
ITSMWorkOrder	Templates for Work Orders	
	Templates for Change Advi- sory Boards	i-

8.5. Search

To find Changes or Work Orders which meet specific search criteria, the system is equipped with a separate search function based on the following search query attributes:





[OTRS::ITSM 2.0.1]			Admin OTRS (re	oot@localhost) 10:35:40 - 02/08/201
0 📀 🤞 🍕		= = = 🔍 🚖 🔌	۲	🧆 🧔 😤
Logout Dashboard Ticket Service Cont Iter	hg Change FAQ Stats Customer Preferences Admin Overview Ch	ange <u>PIR Template Search New Change</u> redule <u>Manager</u>		Vorkorders New message Locked Tickets (7) (7) (16)
A : Don't work with UserID 1 (Syste	em account)! Create new users!			
[Search: Change]				
	Change#, Workorder and CAB			
	Change# (e.g. 10*5155 or 105658*)			
	Change Title			
	Workorder Title			
	CABAgent (e. g. 234231)			
	CABCustomer (e. g. US4231)			
	Fulltext-Search in Change and Workorder (e. g. "Mar*in" or	"Baue*")		
	Change description			
	Change Justification			
	Workorder Instruction			
	Workorder Report			
	Change Priority	Change Impact		
	1 very low 2 low	1 One user affected 2 Some Users Affected		
	3 normal 4 high	3 All Users Affected		
	5 very high			
	Change Category	Change State		
	1 minor 2 standard 2 standard	Requested Pending Approval		
	3 major 4 emergency	Rejected Approved		
	Change Manager	In Progress		
	Bretz Udo (ub)	Bretz Udo (ub)		
	Doe John (jd) Kuhn Christopher (ck)	Doe John (jd) Kuhn Christopher (ck)		
	OTRS Admin (root@localhost) Siebecke Werner (SAP (CC 1000))	OTRS Admin (root@localhost) Siebecke Werner (SAP (CC 1000))		
	Created by Agent			
	Bretz Udo (ub) Doe John (jd)			
	Kuhn Christopher (ck) OTRS Admin (root@localhost) Siebecke Werner (SAP (CC 1000))			
	Workorder State	Workorder Agent		
	Created Accepted	Bretz Udo (ub) Doe John (jd)		
	Ready In Progress	Kuhn Christopher (ck) OTRS Admin (root@localhost)		
	Closed •	Siebecke Werner (SAP (CC 1000))		
	Requested (by customer) Date No requested (by customer) date settings. 			
	Requested (by customer) date last 1 day(s)	•		
	Requested (by customer) date between 01 + / 09 + /	2010 🔹 🗉 and 02 🔹 / 08 🔹 / 2010	•	
	Planned Start Time			
	No planned start time settings.			
	Planned start time last 1 day(s)			
	○ Planned start time between 01			
	No planned end time settings.			
	O Planned end time last + 1 + day(s) +			
	O Planned end time between 01 + / 09 + / 2010 + = a	and 02 🗘 / 08 🛟 / 2010 🛟 🗌		
	Actual Start Time			
	No actual start time settings.			
	 Actual start time last 1 day(s) day(s) Actual start time between 01 √ 09 √ 2010 □ attribute 	and 02 • / 08 • / 2010 •		
	Actual End Time			
	 No actual end time settings. 			
	○ Actual end time last 🗘 1 🗘 day(s) 🗘			
	Actual end time between 01 + / 09 + / 2010 + and	id 02 🗘 / 08 🗘 / 2010 🗘 🖽		
	Create Time			
	No create time settings. Create time last 1 day(s)			
	Create time between 01 \$ / 09 \$ / 2010 \$ # and 0			
	Change Time			
	 No change time settings. 			
	Change time last 1 day(s)			
	○ Change time between 01 ÷ / 09 ÷ / 2010 ; □ and	02 08 02 2010		
			Search	
				Powered by OTRS 2.4.



Table 8.15. Template

Attribute	Details
Change#	Search by Change number; an asterisk ("*") may be used as a wildcard
ChangeTitle	Search by Change title or name
Work Order Title	Search by the title/name of a Work Order
CABAgent	Search by CAB member, defined in the sys- tem as an agent
CABCustomer	Search by CAB member, defined in the sys- tem as a customer. Here, the auto-complete function can offer suggestions when typing in the CAB customer field
Change Description	Search in the Change description text
Change Justification	Search in the reason / justification for the Change
Work Order Instruction	Search in Work Order instructions
Work Order Report	Search in a Work Order report
Change Priority	Search by Change priority level
Change Impact	Search by Change effect / impact level
Change Category	Search by Change category or type
Change State	Search by Change status
Change Manager	Search by Change Manager
Change Builder	Search by Change Builder
Created by Agent	Search by agent user name who created the Change
Work Order State	Search by the status of a Work Order
Work Order Agent	Search by the entered Work Order agent
Requested (by customer) Date	Search by the customer requested Change implementation date. Search can be per- formed using absolute time values (eg. from date 1 to date 2) or in relative time values (eg. Changes created in the last x days / weeks).
Planned Start Time	Search by the planned start date and time of a Change implementation. Search can be performed using absolute time values (eg. from date 1 to date 2) or in relative time val- ues (eg. Changes created in the last x days / weeks).
Planned End Time	Search by the projected end date and time of a Change implementation. Search can be performed using absolute time values (eg. from date 1 to date 2) or in relative time val- ues (eg. Changes created in the last x days / weeks).
Actual Start Time	Search by the actual start date and time of a Change implementation. Search can be per- formed using absolute time values (eg. from date 1 to date 2) or in relative time values



Attribute	Details
	(eg. Changes created in the last x days / weeks).
Actual End Time	Search by the actual end date and time of a Change implementation. Search can be per- formed using absolute time values (eg. from date 1 to date 2) or in relative time values (eg. Changes created in the last x days / weeks).
Create Time	Search by the Change creation date and time. Search can be performed using ab- solute time values (eg. from date 1 to date 2) or in relative time values (eg. Changes created in the last x days / weeks).
Change Time	Search by the date and time a Change was modified. Search can be performed us- ing absolute time values (eg. from date 1 to date 2) or in relative time values (eg. Changes created in the last x days / weeks).

8.6. Change Manager

OTRS::ITSM offers a separate view to agents currently logged in, which displays the Changes for which they are registered as the Change Manager.

ilter: All (1) - <u>Requeste</u> Changes: 1-1 of 1 - Page	Manager: All] ed (0) - Pending Approval (0) - Approved (1) e 1	- In Progress (0)							
Change# ⊘ / ♡	Change Title ♀ / ♀	Change Builder	Change Manager	Workorders	Change State (a) / (c)	Urgency	Planned Start	Planned End	
201001204010000	16 Replacement of mailserver in company hea[]	SAP (CC 1000) (Werner Siebecke)	root@localhost (Admin OTRS)	9	Approved	4 high	01/20/2010 14:38:00	02/02/2010 11:01:00	
hanges: 1-1 of 1 - Page	: 1								

The displayed column headings can be sorted according the following attributes in ascending or descending order. The columns to be displayed can be defined via SysConfig "ITSM Change Management -> Frontend::Agent::ViewChangeManagerOverview":

Attribute	Active	Details
ActualStartTime	No	Date and time at which the Change implementation be- gan
ActualEndTime	Νο	Date and time at which the Change implementation was completed
Category	No	Category or type of Change
ChangeBuilder	Yes	Change Builder's name
ChangeManager	Yes	Change Manager's name
ChangeNumber	Yes	System generated Change number
ChangeState	Yes	Change status
ChangeStateSignal	Yes	Change status indicator to be shown as traffic light



Attribute	Active	Details
ChangeTitle	Yes	Name of Change
CreateTime	No	Date and time at which the Change was created
Impact	No	Expected effect of the Change
PlannedStartTime	Yes	Planned Change implemen- tation start date and time
PlannedEndTime	Yes	Projected Change implemen- tation completion date and time
Priority	Yes	Priority level of the Change
RequestedTime	No	Customer's desired imple- mentation date
Services	Yes	Services affected by the Change
WorkOrderCount	Yes	Number of Work Orders re- lated to the Change

In addition, the Change Manager Overview can filter the displayed Changes by various attributes as follows These can be defined via SysConfig "ITSM Change Management -> Frontend::Agent::ViewChangeManagerOverview" if desired:

Table 8.17. Change Manager Filter

Attribute	Details
requested	Displays all Changes which have status "re- quested"
pending approval	Displays all Changes which have status "pending approval"
approved	Displays all Changes which have status "approved"
in progress	Displays all Changes which have status "in progress"

8.7. My Changes

The "My Changes" view displays all Changes created by the agent currently logged in, where the agent is registered as the Change Builder.

[Overview: My Change Filter: All (3) - Requested	-	0) - Approved (1) - In Progre	ss (1)						
Changes: 1-3 of 3 - Page:	1								
Change#	Change Title ♀ / ♀	Change Builder () / ()	Workorders		Urgency 0 / 0	Services	Planned Start	Planned End	
<u>20100122401000021</u>	new change	root@localhost (Admin OTRS)	1	In Progress	1 very low	User Services::Provisioning of User Equipment	01/23/2010 21:19:00	01/23/2010 22:19:00	
20100127401000012	Austausch Ticketsystems	root@localhost (Admin OTRS)	2	Approved	3 normal		01/27/2010 09:00:00	01/28/2010 15:42:00	
<u>20100201401000048</u>	test	root@localhost (Admin OTRS)	2	Requested	3 normal		02/01/2010 22:15:00	02/12/2010 23:18:00	
Changes: 1-3 of 3 - Page:	1								

The display can be sorted by the column headings in ascending or descending order. The attributes can be defined via SysConfig "ITSM Change Management -> Frontend::Agent::ViewMyChangesOverview":



Table 8.18.My Changes

Attribute	Active	Details
ActualStartTime	No	Date and time at which the Change implementation be- gan
ActualEndTime	No	Date and time at which the Change was completed
Category	No	Category or type of Change
ChangeBuilder	Yes	Change Builder's name
ChangeManager	Yes	Change Manager's name
ChangeNumber	Yes	System generated Change number
ChangeState	Yes	Change status
ChangeStateSignal	Yes	Change status indicator to be shown as traffic light
ChangeTitle	Yes	Name of Change
CreateTime	No	Date and time at which the Change was created
Impact	No	Expected effect the Change will have
PlannedStartTime	Yes	Planned Change implemen- tation start date and time
PlannedEndTime	Yes	Projected Change comple- tion date and time
Priority	Yes	Priority level of the Change
RequestedTime	No	Customer's desired imple- mentation date
Services	Yes	Services affected by the Change
WorkOrderCount	Yes	Number of Work Orders re- lated to the Change

In addition, the My Changes Overview can filter the displayed Changes by various attributes as below. These can be defined via SysConfig "ITSM Change Management -> Frontend::Agent::ViewMyChangesOverview":

Table 8.19. My Changes Filter

Attribute	Details
requested	Displays all Changes which have status"requested"
pending approval	Displays all Changes which have status"pending approval"
approved	Displays all Changes which have status"approved"
in progress	Displays all Changes which have status"in progress"



8.8. My Work Orders

Similar to the OTRS Ticket Engine's "Locked Tickets" view, OTRS::ITSM offers the currently logged-in agent a separate view of the Work Orders assigned to him / her.

Changes: 1-7 of 7 - Page: 1	+) - <u>Ready (3)</u> - <u>In Progress (0)</u>					
Workorder# ⊘ / ⊙	Workorder Title ♀ / ♡	Change Title G / G	Workorder Agent	Workorder State O / O	Planned Start () / ()	Planned End O
<u>20100127401000021-</u> <u>3</u>	Think about mail server replacement	Replacement of mailserver in company hea[]	root@localhost (Admin OTRS)	Ready	01/21/2010 09:49:00	01/25/2010 10:49:00
<u>20100120401000016-</u> <u>3</u>	Think about mail server replacement	Replacement of mailserver in company hea[]	root@localhost (Admin OTRS)	Ready	01/21/2010 09:49:00	01/25/2010 10:49:00
20100127401000021- <u>Z</u>	Backout Plan	Replacement of mailserver in company hea[]	root@localhost (Admin OTRS)	Accepted	01/26/2010 09:59:00	01/30/2010 10:59:00
<u>20100120401000016-</u> <u>7</u>	Backout Plan	Replacement of mailserver in company hea[]	root@localhost (Admin OTRS)	Accepted	01/26/2010 09:59:00	01/30/2010 10:59:00
<u>20100127401000012-</u> <u>1</u>	Evaluierung Systeme	Austausch Ticketsystems	root@localhost (Admin OTRS)	Accepted	01/27/2010 09:00:00	01/27/2010 17:00:00
20100203401000028- <u>3</u>	Think about mail server replacement	Replacement of mailserver in company hea[]	root@localhost (Admin OTRS)	Ready	02/04/2010 11:40:00	02/08/2010 12:40:00
20100203401000028- 7	Backout Plan	Replacement of mailserver in company hea[]	root@localhost (Admin OTRS)	Accepted	02/09/2010 11:50:00	02/13/2010 12:50:00

Changes: 1-7 of 7 - Page: 1

The displayed information can be sorted by column heading in ascending or descending order. The attributes used can be defined via SysConfig "ITSM Change Management -> Frontend::Agent::ViewMyWorkOrdersOverview":

Table 8.20. My Work Orders

Attribute	Active	Details
ActualStartTime	No	Date and time at which the Change implementation be- gan
ActualEndTime	No	Date and time at which the Change implementation was completed
Category	No	Category or type of Change
ChangeBuilder	No	Change Builder's name
ChangeManager	No	Change Manager's name
ChangeNumber	No	System generated Change number
ChangeState	No	Change status
ChangeStateSignal	No	Change status indicator to be shown as traffic light
ChangeTitle	Yes	Name of Change
CreateTime	No	Date and time at which the Change was created
Impact	No	Expected effect the Change will have
PlannedStartTime	Yes	Planned Change implemen- tation start date and time
PlannedEndTime	Yes	Projected Change comple- tion date and time
Priority	No	Priority level of the Change
RequestedTime	No	Customer's desired imple- mentation date



Attribute	Active	Details				
Services	Yes	Services affected by the Change				
WorkOrderAgent	Yes	Agent assigned to the PIR				
WorkOrderNumber	Yes	Work Order number				
WorkOrderState	Yes	Number of Work Orders re- lated to the Change				
WorkOrderStateSignal	No	Work Order status indicator to be shown as traffic light				
WorkOrderTitle	Yes	Name of the Work Order				
WorkOrderType	No	The type of Work Order				

In addition, the My Work Orders Overview can filter the displayed Work Orders by various attributes as below, which can be defined via SysConfig "ITSM Change Management -> Frontend::Agent::ViewMyWorkOrdersOverview":

Table 8.21. My Work Orders Filter

Attribute	Details
created	Displays all Work Orders which have the sta- tus "created"
accepted	Displays all Work Orders which have the sta- tus "accepted"
ready	Displays all Work Orders which have the sta- tus "ready"
in progress	Displays all Work Orders which have the sta- tus "in progress"

9. Change Management Statistics

OTRS::ITSM provides the following reports for the evaluation of key indicators in supervising Change Management. All reports can be accessed through the integrated report generator.

9.1. Number of Changes Within a Defined Period

The report allows the definition of a relative (eg. Changes within the last x days) or absolute time period (eg. Changes from date1 to date 2). In addition, it is also possible to define the Change status to be reported.

Reports are available in "CSV" or "Print" (PDF) output formats.

9.2. Number of Changes by Change Category

The report allows the definition of a relative (eg. Changes within the last x days) or absolute time period (eg. Changes from date1 to date 2). In addition, it is also possible to define the Change status to be reported.

Reports are available in "CSV" or "Print" (PDF) output formats.

9.3. Number of Rejected Changes

The report allows the definition of a relative (eg. Changes within the last x days) or absolute time period (eg. Changes from date1 to date 2). In addition, it is also possible to define the Change status to be reported.

Reports are available in "CSV" or "Print" (PDF) output formats.



9.4. Number of Withdrawn Changes

The report allows the definition of a relative (eg. Changes within the last x days) or absolute time period (eg. Changes from date1 to date 2). In addition, it is also possible to define the Change status to be reported.

Reports are available in "CSV" or "Print" (PDF) output formats.

9.5. Ratio of Changes to Incidents

The report allows the definition of a relative (eg. Changes within the last x days) or absolute time period (eg. Changes from date1 to date 2). In addition, it is also possible to define the Change status to be reported.

Reports are available in "CSV" or "Print" (PDF) output formats.

9.6. RFCs Per Requester

The report allows the definition of a relative (eg. Changes within the last x days) or absolute time period (eg. Changes from date1 to date 2). In addition, it is also possible to define the RFC Requester to be reported.

Reports are available in "CSV" or "Print" (PDF) output formats.





Chapter 9. Release Management

The release management process will be implemented in a later OTRS::ITSM version. Basic information, however, can be configured, captured and controlled since version 1.0 too.

As an example, approval rules or overviews from DSL (Definitive Software Library) can be configured and used.





Chapter 10. Service Level Management

The OTRS stats framework has been completely revised for version 2.1 and nearly every type of ticket report can be created in the web interface. Generation and view of stats and charts can be activated for users, groups and/or roles. It is possible to import or export existing or new stats and further use can be made of stats modules from previous OTRS versions. With the installation of the ITSMServiceLevelManagement package, additional ITSM relevant statistics are available.

Example of a report overview:

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- 🦛	😴 🛞 🖀 💽 http://localhost/otrs/index.pl?Action=AgentStats&Subaction=	Overview	•
OTRS::ITSM	4041		Anakin Skywalker (skywalker@otrs.org) 09:46:18 - 08/27/200
	😭 🤣 🤹 📽 🛀 🕒 aw New Import Ticket Service Config Item Preferences Admin		New message (0) Locked Tickets (0
			ten meeskis (s) menen isnen (s
Overview: S	Total hits: 43 - Page: 1 2 3		
10 3 GH2 3. 1-20			
Stat# 😏 / 🐼	Title 🕑 / 😒	Object 😏 / 😔	Description
10001	New Tickets	Ticket	Total number of new tickets per day and queue whic[]
10002	Overview about all tickets in the system	Ticket	Current state of all tickets in the system without[]
10003	Changes of status in a monthly overview		Monthly overview, which reports status changes per[]
10004	Total number of all tickets ever created per Ticket-Type and Priority.	Ticket	Total number of all tickets ever created per Ticke[]
10005	Total number of all tickets ever created per Ticket-Type and State.	Ticket	Total number of all tickets ever created per Ticke[]
10006	Total number of all tickets ever created per Ticket-Type and Queue.	Ticket	Total number of all tickets ever created per Ticke[]
10007	Total number of all tickets ever created per Ticket-Type and Service.	Ticket	Total number of all tickets ever created per Ticke[]
10008	Monthly overview of all tickets created in the last month per Ticket-Type.	Ticket	Monthly overview of all tickets created in the las[]
10009	Monthly overview of all tickets created in the last month per Priority.	Ticket	Monthly overview of all tickets created in the las[]
10010	Monthly overview of all tickets created in the last month per State.	Ticket	Monthly overview of all tickets created in the las[]
10011	Monthly overview of all tickets created in the last month per Queue.	Ticket	Monthly overview of all tickets created in the las[]
10012	Monthly overview of all tickets created in the last month per Service.	Ticket	Monthly overview of all tickets created in the las[]
10013	Number of tickets created in a specific time period per Ticket-Type and Priority.	Ticket	Number of tickets created in a specific time perio[]
10014	Number of tickets created in a specific time period per Ticket-Type and State.	Ticket	Number of tickets created in a specific time perio[]
10015	Number of tickets created in a specific time period per Ticket-Type and Queue.	Ticket	Number of tickets created in a specific time perio[]
10016	Number of tickets created in a specific time period per Ticket-Type and Service.	Ticket	Number of tickets created in a specific time perio[]
10017	Number of currently open tickets per Ticket-Type and Priority.	Ticket	Number of currently open tickets per Ticket-Type a[]
10018	Number of currently open tickets per Ticket-Type and Queue.	Ticket	Number of currently open tickets per Ticket-Type a[]
10019	Number of currently open tickets per Ticket-Type and Service.	Ticket	Number of currently open tickets per Ticket-Type a[]

XML export of report settings:



• 🕪 • 🕑 😡) 🚮 📄 http://localhost/otrs/index.pl?Action=AgentSta	its&Subaction=View&StatID=2
<u>ti Overview</u> New Imp w: Stat#: 10002]	ort Ticket Service Confg Item Location Preferences Admin	New message (0) Locked Tickets (0)
- <u>Edit</u> - <u>Delete</u> - <u>E</u>	xport Config	Opening Overview-tickets-in-system-Created_2007-06-12_0
formations about th	ne Stat	You have chosen to open
tat#: : escription: ormat: um rows: um columns: ache: alid: axis tate:	1002 Overview tickets in system Ticket Status quo all tickets in system without time limit Print Yes Yes No valid closed successful closed unsuccessful closed with workaround merged	Overview-tickets-in-system-Created_2007-06-12_01-19.pdf which is a: PDF document from: http://lancelot otrs.com What should Firefox do with this file? @ Qpen with KGhostView (default) Save to Digk Do this gutomatically for files like this from now on. Cancel OK
lue Series	new open pending auto close+ pending auto close- pending reminder removed	
ueue:	Application Service Archive & Restore Junk Misc Postmaster	
log-base	ed creation of a new repor	t template:
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→ · C ⊗) 🏠 📄 http://localhost/otrs/index.pl/Action=AgentSta	
	xort Ticket Service Config Item Location Preferences Admin	New message (2) Locked Tickets (2)

File Edit View Histe	ory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp			
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		American Sky mennes (sky mennes	(Goodoolg) 1101 0011 1 EE	
	A Structure Config Item Locat		New message (2) Locked Tickets (2)	Ê
A : You have 2 new r	nessage(s)!			
[Edit: Stat# 10001]				
	6			
	(1	-(2)-(3)-(4)		
	Ċ.			
	Insert of the common specification	s (1/4)		
	Title:*	New tickets		
	Description:*	The number of the new tickets per diem and queue of the las month which arrived in to the system.	t	
				_
	Dynamic-Object:*	Ticket		
	Permissions:*	admin 🔺		
		users		
	Format:*	CSV		
		Print graph-area		
		graph-bars ▼		
	Graphsize:			
		1600x1200		
		800x600		
				-

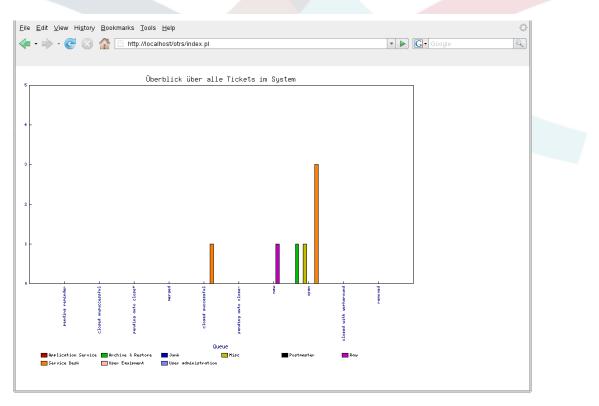
A PDF generator is incorporated too, which facilitates the export of the print view of tickets, stats and search results in PDF files:



((otrs))	Con	nmuni	catio	n with	n suci	ess!																								St	at#1	000
Neue Tic	ket	s 20	07-0)5-0	01 0	0:0	0:00-	200	7-05	31 :	23:5	9:5	э									printed	by An	akin S	ikywal	ker (si	kywalki	n@otr:	s.org) (06/10/3	2007 2	3:49:
Queue	Tue 1	Wed 2	Thu:	Fri 4	Sat 5	Sun	6 Mon 1	Tue 8	Wed 9	Thu 1	D Fri 11	Bat 12	2 Sun 1:	Mon 1-	Tue 1	5 Wed 16	Thu T	Fri 1	Set 15	Sun 2	0 Mon 2	Tue 22	Wed 2	Thu 2	4 Fri 2	Sat 21	5 Sun 23	Mon 28	Tue 25	Wed 3	0 Thu?	1 Sum
Application Service	0	0	0	0	0	0	0	0	0	0	D	0	0	0	0	0	0	٥	D	0	0	٥	0	0	0	0	0	0	0	0	0	0
inchive & Restore	0	0	0	0	0	0	0	0	0	0	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lusk	0	0	0	0	0	0	0	0	0	0	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asc.	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
batmaater	0	0	0	0	0	0	0	0	0	0	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
law.	0	0	0	0	0	0	0	0	1	0	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
ervice Desk	0	0	0	0	0	0	0	0	0	0	D	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	0	0	0	4
leer Equipment	0	0	0	0	0	0	0	0	0	0	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
laar dministration	0	0	0	0	0	0	0	0	0	0	D	0	0	0	0	0	0	0	D	0	0	٥	0	0	0	0	0	0	0	0	0	0
Sum	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	0	0	0	8

((otrs)) or	mmunication with	success'									Stat#100(
((0110)) 00	in ridincation with	BLKAADIST.									5121#1000
A											
Uberblick ü	ber alle Tick	ets im System	l –				prin	ited by Anaki	n Skywalker (skywalker@	otrs.org) 06/1	1/2007 01:45:
Queue	pending reminder	closed unsuccessful	pending auto close+	merged	closed successful	pending autoclose-	new	open	closed with workaro und	removed	Sum
Application Service	0	0	0	0	0	0	0	0	0	0	٥
Archive & Restore	0	0	0	0	0	0	0	1	0	0	1
Junk	0	0	0	0	0	0	٥	0	0	0	0
Misc	0	0	0	0	0	0	0	1	0	0	1
Postmaster	0	0	0	0	0	0	0	0	0	0	0
Raw	0	0	0	0	0	0	1	0	0	0	1
Service Desk	0	0	0	0	1	0	0	э	0	0	4
User Equipment	0	0	0	0	0	0	0	0	0	0	0
User administration	0	0	0	0	0	0	0	0	0	0	0
Sum	0	0	0	0		0	1	5	0	0	7

Example of a graphical ticket overview:





Chapter 11. The admin area of OTRS::ITSM

The admin area is the central interface for the ticket system administrator. All important settings of the system configuration can be checked and/or changed here, and the system can be adapted to individual needs.

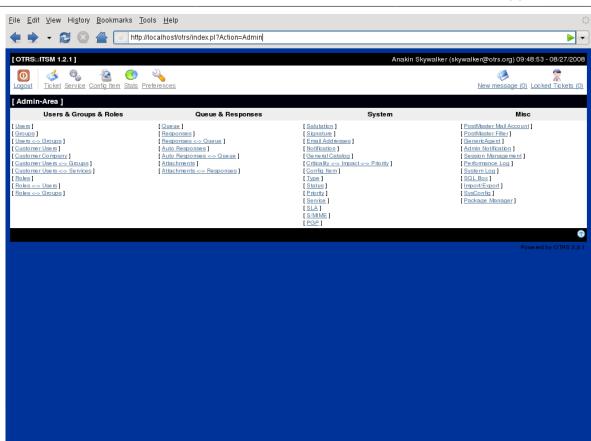
The admin area can be accessed via the "admin" link in the agent interface navigation bar. The link is only shown to users logged on to the system as OTRS::ITSM administrators or having administrator permissions in the system. After a default installation you can log on to the system as OTRS admin using the user name "root@localhost" and the password "root".

Warning

Make sure to change the password of root@localhost in the user preferences as quickly as possible after the installation as it is the default password and commonly known.

- from OTRS::ITSM 1.0 on
 - [General Catalog]
 - [Criticality Impact Priority
 - [ConfigItem]
- from OTRS::ITSM 1.1 on
 - [Import/Export]
- from OTRS::ITSM 2.0 on
 - [Notification (ITSM Change Management)]
 - [Category Impact Priority]
 - [State Machine]
- from OTRS 2.2 on
 - [Type]
 - [Status]
 - [Service]
 - [SLA]
- from OTRS 2.3 on
 - [Priority]





1. The general catalog

As the name indicates, the general catalog serves for basic ITSM relevant configurations in OTRS::ITSM.



<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp			ž,						
💠 👻 🛃 💿 http://ocalhost/otrs/index.pl?Action=AdminGeneralCatalog									
[OTRS::ITSM 1.2.1]		Anakin Skyv	valker (skywalker@otrs.org) 09:49:24 - 08/27/2008						
O State Preferences			New message (0) Locked Tickets (0)						
[Admin-Area]									
Users & Groups & Roles	Queue & Responses	System	Misc						
[Customer Users] [Auto Resp [Customer Company] [Auto Resp [Customer Users <-> Groups] [Attachmer	s> Queue] onses] onses> Queue]	[Salutation] [Signatuse spees] [Ermail Addressees] [Notification] [General Catabag] [Criticality-co-Impact <>> Priority] [Config litern] [Type] [Signatus] [Priority] [Sarrice] [SiA] [SiA] [SiA] [SiAME] [PGP]	[PostMaster Hail Account] [PostMaster Hail Account] [GenericAgent] [Admin Notification] [Session Management] [Performance Log] [SoL Box] [SoL Box] [ImpoffExport] [SysSonfis] [Package Manager]						
Add Catalog Item:	List:								
Catalog	Catalog Class								
Class:	ITSM::Configitem::Class								
Add	ITSM::ConfigItem::Computer::	uter::Type							
	ITSM::ConfigItem::Deploymer	n::De ploymentState							
Add Catalog Class:		SM::ConfigItem::Hardware::Type							
Add a new Catalog Class.	ITSM::ConfigItem::Location::T								
Add	ITSM::ConfigItem::Network::Ty								
	ITSM::ConfigItem::Software::L								
	ITSM::ConfigItem::Software::T	уре							
	ITSM::ConfigItem::YesNo								
	ITSM::Core::Criticality								
	ITSM::Core::Impact ITSM::Core::IncidentState								
	ITSM::Core::IncidentState								
	TOM/OLA/TWO								

For example the editing of reference chart entries for drop-down fields:

<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> el)			
🔶 👻 😂 🕙 🕋 💽 http://localhos	/otrs/index.pl?Action=AdminGenera	ICatalog&Subaction=ItemList&Class=ITSM::	ConfigItem::Computer::Type	▶ ▼
[OTRS::ITSM 1.2.1]		Anakin Sk	ywalker (skywalker@otrs.org) 09:51:5	7 - 08/27/2008
O S Config Item Stats Preferences			New message (0)	ked Tickets (0)
[Admin-Area]				
Users & Groups & Roles	Queue & Responses	System	Misc	
[Users <> Groups] [Resp. [Customer Users] [Auto [Customer Company] [Auto [Customer Users <> Groups] [Atta	e] onees <> Queue] Besponses] Responses <> Queue] Imments /> Responses]	[Salutation] [Sanature] [ErnalAddesees] [Motification] [GenemICataba] [Config Item] [Tone] [Tone] [Status] [Phothy] [Saruks] [SLA] [SJA] [SJA]	[PostMaster/Mail Account] [PostMaster/Her] [GenerhAgent] [Admin Notification] [Session Management] [Performance Log] [System Log] [SQL Box] [Import/Export] [SysConfig] [Package Manager]	
[General Catalog Management]				
Add Catalog Item:	List:			
	TISM::Configitem::Compute	er::Type	Functionality	Valid
Class:	Desktop			valid
Ac	d Laptop		-	valid
	Other		-	valid
Add Catalog Class:	PDA			valid
Add a new Catalog Class.	Phone			valid
Ad	d <u>Server</u>		-	valid
				0
			Powere	d by OTRS 2.3.1



2. Configurating configuration item classes

By default OTRS::ITSM provides five CI classes to represent all relevant IT elements:

• [Computer]

All Cls, which are classically referred to as computers, e.g. desktop PCs or laptops, and all intelligent, configurable and non-peripheral appliances such as switches, routers or other active network components.

• [Hardware]

All hardware components not being considered as computers, ranging from "blade center" chassis, to printers and USB sticks depending on the level of detailedness of the listing.

• [Network]

Logical nets (LAN, WLAN, WAN etc.), which span IP address spaces.

• [Software]

All software products and licenses.

• [Locations]

All Locations, e.g. building, workplace, IT facility.

If the five classes do not suffice to describe your IT environment, further classes can be added via the "general catalog" link in the OTRS::ITSM admin area. After creating a new Cl class in the general catalog, a definition must be entered in Configitem".

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🔶 👻 😂 🖀 💿 http://localhost/	trs/index.pl?Action=AdminGenera	ICatalog&Subaction=ItemList&Class=ITSM::C	ConfigItem::Class	-
[OTRS::ITSM 1.2.1]		Anakin Sky	walker (skywalker@otrs.org) 09:53	55 - 08/27/2008
Image: Service Config Item Stats Preferences			New message (O)	oc ked Tic kets (0)
[Admin-Area]				
Users & Groups & Roles	Queue & Responses	System	Misc	
[Customer Users] [Auto F [Customer Company] [Auto F [Customer Users <>> Groups] [Attach	nses] nses <-> Queue] esponses] esponses <-> Queue]	[Salutation] [Sanature] [Email.Addresses] [Notification] [GeneralCatalog] [Criticatify <>> Impact <>> Priority] [Config Item] [Tome] [Satus] [Phority] [Satus] [Satus] [SLA] [SLA] [SLA] [SAMME] [PGP]	[PostMaster Mail Account] PostMaster Filter] [GenericAcent] [Admin Notification] [Session Management] [Performance Log] [Soll Box] [Imot/Export] [SveConfig] [Package Manager]	
[General Catalog Management]				
Add Catalog Item:	List:			
Catalog ITSM::ConfigItem::Class	ITSM::ConfigItem::Class		Functionality	Valid
Class:	Computer		-	valid
Add	Hardware		-	valid
	Location			valid
Add Catalog Class:	Network		•	valid
Add a new Catalog Class.	Software		•	valid
Add				
				Û
			Powe	red by OTRS 2.3.1



Warning

The design of a CMDB data model and the CIs to be managed in it is a task which should not be underestimated. Our experience shows that it is highly recommendable to validate conceptual thoughts in a dry run against the existing IT infrastructure before changing the OTRS::ITSM standard data model and/or CI classes. It has proven of value to resort to external assistance, e.g. of ITIL practice experts for the CMDB design.

Please find below a part of the self-explaining default configuration for the "computer" Cl class:

```
]
    {
        Key => 'Description'
        Name => 'Description',
        Searchable => 1,
        Input => {
             Type => 'TextArea',
        },
    },
{
        Key => 'Type',
        Name => 'Type'
        Searchable => 1,
        Input => {
             Type => 'GeneralCatalog',
             Class => 'ITSM::ConfigItem::Computer::Type',
        },
    },
        Key => 'Owner',
Name => 'Owner',
        Searchable => 1,
        Input => {
             Type => 'Customer',
        },
    },
        Key => 'AssetTag',
        Name => 'Asset Tag',
         Searchable => 1,
        Input => {
             Type => 'Text',
             Size => 50,
             MaxLength => 100,
             Required => 1,
         },
         CountMin => 0,
        CountMax => 1,
        CountDefault => 0,
    },
             :
             :
             :
    {
        Key => 'Model',
Name => 'Model',
        Searchable => 1,
        Input => {
             Type => 'Text',
             Size => 50,
             MaxLength => 50,
        },
    },
    {
        Key => 'OperatingSystem',
```



```
Name => 'Operating System',
         Input => {
              Type => 'Text',
              Size => 50,
              MaxLength => 100,
         },
    },
{
         Key => 'CPU',
Name => 'CPU',
         Input => {
              Type => 'Text',
              Size => 50,
              MaxLength => 100,
         },
         CountMin => 1,
CountMax => 16,
         CountDefault => 1,
    },
];
```

Attribute changes and amendments can be effected in the graphical configuration area selecting "change definition":

<u>Eile E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u>	Help	
 	ost/otrs/index.pl?Action=AdminITSMConfigItem&Subaction=DefinitionChang 🔻 🕨 💽 🕻 Google	
	(<u>PGP</u>)	
[ConfigItem Management]		
Change Definition:	Change:	
Configitem Class: Computer 💌	Configitem Computer Class:	
Change	<pre>Definition: CountDefault => 0, }, }, { Key => 'GraphicAdapter', Name => 'Graphic Adapter', Input => { Type => 'Text', Size => 50, MaxLength => 100, }, }, { Key => 'OtherEquipment', Name => 'OtherEquipment', Name => 'TextArea', Required => 1, }, CountMax => 1, CountDefault => 0,</pre>	
	<pre>}, { Key => 'WarrantyExpirationDate', Name => 'Warranty Expiration Date', Searchable => 1, Input => { Type => 'Date', }, { Key => 'InstallDate', Name => 'Install Date', Install Date', Name => 'Install Date', Install Date', Name => 'Install Date', Install Date',</pre>	

Warning

In order to assure the consistency of the data managed in OTRS::ITSM, information created in the admin area of the system cannot be deleted as a general rule. If you want to deactivate such information, change the value in the respective listbox settings from "valid" to "invalid" or "invalid-temporarily".



3. Version management of CI classes

Version management for all CI classes is integrated into the system. The latest versions are used for the processes represented in OTRS::ITSM.

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🔶 👻 😂 🖀 💽 http://localhost/of	rs/index.pl?Action=AdminITSMConfig	gltem&Subaction=DefinitionList&Class	sID=32	► -
[OTRS::ITSM 1.2.1]		Anakin	Skywalker (skywalker@otrs.org) 10:00:15 - 08/27/2008
Indext Index Index Index <td></td> <td></td> <td>New message</td> <td>ge (0) Locked Tickets (0)</td>			New message	ge (0) Locked Tickets (0)
[Admin-Area] Users & Groups & Roles	Queue & Responses	System		Misc
[Usem] [Queue] [Groups] [Respon [Usem s-> Groups] [Respon [Customer Lasem] [Auto Re [Customer Company] [Auto Re [Customer Lasem] [Auto Re	255] 255<> Queue] 250n255] 250n255<> Queue]	[Salutation] [Signatume] [Notification] [GeneralCataboo] [Contiguitem] [Contiguitem] [Sintau] [Sintau] [Sintau] [Sintau] [Sintau] [Sintau] [Sintau] [Sintau] [Sintau] [Sintau] [Sintau] [Sintau] [Sintau] [Sintau] [Sintau] [Sintau]	[PostManter Mail A [PostManter Filer] [GenericAcent] [Admin Notification [Session Manager [Performance_Log] [System Log] [SoL Boz] [Imooff.Sport] [SysContig] [Package_Manager	2000mt]] went]
[Config Item Management]				
Change Definition:	List:			
Config Item Class: Computer	Config Item Class	Version	Created by	Created
Change	Computer	1	root@localhost (Admin OTRS)	08/07/2008 08:48:20
				Powemd by OTRS 2.3.1

4. Adjustment of ticket state

In ITIL compliant incident management, incidents are either resolved successfully or closed with a workaround. For such cases, OTRS::ITSM standard provides the ticket state "closed with workaround".



OTRS::ITSM 1.2.1]				Anakir	n Skywalker (skywalker@	otrs.org) 10:00:39 - 08/27/2
🧿 🧆 🎭 🗟 🤭 ogout Ticket Service Config Item Stats P	Preferences				Nev	v message (0) Locked Tickets
Admin-Area]						
Users & Groups & Roles		Queue & Responses		System		Misc ster Mail Account]
leem s-o Groups] unitormer Leem] unitormer Loem a -o Groups] unitormer Lieem -oo Services] obes] loes -o Lieems]	Auto Resp Auto Resp Attachme	ponses <-> Queue	[Email Addresses] [Notification] [General Catalog] [Criticality <> Impac [Config. Item] [Type] [Status]	:t <-> Priority]	Session	<u>lotification</u>] <u>Management] ance_Log] Log] ×]</u>
to <u>ks «→ Groups</u>] State Management]			[Priority] [Service] [SLA] [S/MIME] [PGP]		SysConf	
State Management] Add State:		List:	[<u>Priority</u>] [<u>Service</u>] [<u>SLA</u>] [<u>S/MIME</u>]		SysConf	ia 1
state Management] dd State:		Name	[Phothy] [Service] [SLA] [S.A.MME] [PGP]	valid/invalid	[SysConf [Package Changed	ia] • Manager] Created
state Management] dd State:	Add	Name closed successful	(Phothy) (Service) (SLA) (SLA) (S.AMME) (PGP) Type closed	valid	[<u>SysCont</u> [<u>Package</u> Changed 08:07/2008 08:41	ia] • Manager] Created 08/07/2008 08:41
state Management] dd State:	Add	Name closed successful closed unsuccessful	[Phothy] [Service] [SinA] [SinA] [SinAME] [PSP] Type closed closed	valid valid	[<u>SysConf</u> [<u>Package</u> Changed 08/07/2008 08:41 08/07/2008 08:41	ia] - Manager] Created 08/07/2008 08:41 08/07/2008 08:41
state Management] dd State:	Add	Name closed successful closed unsuccessful closed with workaround	[Phothu] [Service] [Service] [SLA] [SLA] [SLAME] [PSP] Type closed closed closed	valid valid valid	[<u>SysConf</u> [<u>Package</u> 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:48	Eal Manager] Created 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:48
state Management] dd State:	Add	Name closed successful closed unsuccessful closed with workaround merged	[Phothu] [Senice] [Senice] [SAMME] [SAMME] [PGP] Type closed closed closed closed merged	valid valid valid valid	[<u>SysConf</u> [<u>Package</u> 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:48 08/07/2008 08:41	Eal Manager] Created 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:48 08/07/2008 08:41
state Management] dd State:	Add	Name closed successful closed unsuccessful closed with workaround merged new	(Phothy) Service] (SAA) (SAAME) (PSP) Closed closed closed closed merged new	valid valid valid valid valid	[<u>SyaConf</u> [<u>Package</u>] 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41	Eal Manager] Created 08/07/2008 08:41 08/07/2008 08:48 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41
State Management] dd State:	Add	Name closed successful closed unsuccessful closed with workaround merged new open	(Protection) (Services) (Services) (SAMME) (SAMME) (PGF) Closed closed closed closed closed closed closed energed new open	valid valid valid valid valid valid	[<u>SyaConf</u> [<u>Package</u>] [<u>Package</u>] 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41	Ea] Manager] Created 08/07/2008 08:41 08/07/2008 08:43 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41
State Management] dd State:	Add	Name closed successful closed unsuccessful closed with workaround merged new open pending auto close+	[Phothy] [Senice] [SLA] [SLAMME] [SLAMME] [PGE] Closed closed	valid valid valid valid valid valid valid	[SysConf [Package 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41	Ea] Manager] Created 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41
State Management] dd State:	Add	Name closed successful closed unsuccessful closed with workaround merged new open pending auto close+ pending auto close-	(Phothy) (Service) (SLA	valid valid valid valid valid valid valid valid	[SysConf [Package 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41	Ea] Manager] Created 08,07/2008 08:41 08,07/2008 08:41 08,07/2008 08:41 08,07/2008 08:41 08,07/2008 08:41 08,07/2008 08:41 08,07/2008 08:41 08,07/2008 08:41
State Management]	Add	Name closed successful closed unsuccessful closed with workaround merged new open pending auto close+	[Phothy] [Senice] [SLA] [SLAMME] [SLAMME] [PGE] Closed closed	valid valid valid valid valid valid valid	[SysConf [Package 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41	Ea] Manager] Created 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41 08/07/2008 08:41

With OTRS::ITSM you can change ticket states or add new ones. There are two important options: the name of the state "state-name" and the type of it "state-type". All states and types available by default are pictured above.

State names can be chosen freely. In the "state" settings within the admin interface new states can be added or changed for existing state types.

Please consider that changes to the "new" state require changes in the configuration file kernel/config.pm or in the graphical configuration front-end.

```
[...]
# PostmasterDefaultState
# (The default state of new tickets.) [default: new]
$Self->{PostmasterDefaultState} = 'new';
# CustomerDefaultState
# (default state of new customer tickets)
$Self->{CustomerDefaultState} = 'new';
[...]
```

The same applies to changes to the "open" state: changes in the kernel/Config.pm or in the graphical configuration frontend are necessary.

```
[...]
# default phone new state
$Self->{'Ticket::Frontend::PhoneNextState'} = 'open';
# PostmasterFollowUpState
# (The state if a ticket got a follow up.) [default: open]
```



```
$Self->{PostmasterFollowUpState} = 'open';
[...]
```

Warning

In order to assure the consistency of the data managed in OTRS::ITSM, information created in the admin area of the system cannot be deleted as a general rule. If you want to deactivate such information, change the value in the respective listbox settings from "valid" to "invalid" or "invalid-temporarily".

5. The criticality impact priority matrix

OTRS::ITSM provides five ticket priority levels:

• [Criticality]

Significance ("criticality") of the service for the IT user(s)/customer(s)

• [Impact]

Impact of failures of the concerned service on the user(s)/customer(s)

• [Priority]

Priority within OTRS::ITSM as resulting from criticality and impact

The OTRS::ITSM ticket priority is determined with the matrix shown below and the prioritized ticket is integrated in the queue views.

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🌩 👻 😂 🚖 💽	http://localhost/otrs/inde	ex.pl?Action=AdminITSMC	IPAllocate			
[OTRS::ITSM 1.2.1]				Anakin Skywalker	(skywalker@otrs.org) 10:02:36 - 0	8/27/2008
O de logout de l	ats Preferences				New message (0) Locked	Tickets (0)
[Admin-Area] Users & Groups & Roles	0	ue & Responses		System	Misc	
Users & Groups & Holes [Groups] [Groups] [Guidomer Users] [Guidomer Users <> Groups] [Guidomer Users <> Groups] [Guidomer Users <> Services] [Roles = [Roles <> Groups] [Roles <> Groups] [Roles <> Groups] [Criticality <> Impact <> Priority	[Queue] [Responses] [Responses] [Auto Responses [Auto Responses [Attachments] [Attachments]	Queue]] <> Queue]	[Solution] [Statute] [Email Addimenses] [Motification] [Contraint cost interaction [Contraint cost interaction [Contraint cost interaction [Contraint] [Contraint] [Contraint] [Contraint] [Status] [Pontry] [Status] [Status] [Status] [Status] [Status] [Status] [Status] [Status] [Status] [Status]		I PostMaster MailAccount] [PostMaster Eiter] [GenericAgen] [Admin Notification] [Session Management] [Performance Log] [System Log] [Sout Bos] [Import/Export] [SystConfig] [Package Manager]	
Priority allocate:						
	Criticality 1 very low	2 low	Criticality 3 normal	Criticality 4 high	Criticality 5 very high	
Impact 1 very low	1 very low 🗢	1 very low 🗢	2 low 🗘	2 Iow \$	3 normal 🗢	
Impact 2 low	1 very low 🗢	2 low 🖨	2 low 🖨	3 normal 🖨	4 high 🗢	
Impact 3 normal	2 Iow \$	2 low \$	3 normal 🗢	4 high \$	4 high 🖨	
Impact 4 high	2 low 🖨	3 normal 🖨	4 high 🖨	4 high \$	5 very high	
Impact 5 very high	3 normal \$	4 high 🖨	4 high \$	5 very high	5 very high	
					Save	

The level number, descriptions and validity can be accessed and changed in the admin interface via the "general catalog" link:



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🔙 🔶 👻 🔁 🔁 💿 http://	/localhost/otrs	/index.pl?Action=AdminGene	ralCatalog&Subaction=ItemList&Class=ITSM::	Core::Criticality	-
				analla a (ala analla a Qatas a an) 40.0	4.20 08/87/8008
	5		Anakin Skj	ywalker (skywalker@otrs.org) 10:0	14:36 - 08/27/2008
Image: State Service Config litem State P	references			New message (0)	Locked Tickets (0)
[Admin-Area]					
Users & Groups & Roles		Queue & Responses	System	Misc	
[Uers] [Groups] [Uestomer Uers] [Customer Uers] [Customer Uers] [Customer Uers ~> Groups] [Customer Uers ~> Groups] [Roles ~> Uers] [Roles ~> Uers] [Roles ~> Groups] [General Catalog Management] Add Catalog Item:	Auto Resp Auto Resp Attachmen	s> Queue] onses] onses> Queue]	[Salutation] [Sinature] [Email Addresses] [Hotfication] [General Catables] [Criticality <> Impact <> Priority] [Contig Item] [Tape] [Status] [Priority] [Service] [SLA] [SIAME] [PGP]	[PostMaster/Mail.Account [PostMaster/Miller] [GenericAgent] [Admin.Notification] [Session.Management] [Performance.Log] [System.Log] [SOL.Box] [Import/Export] [SystConfig] [Package Manager]	1
Catalog ITSM::Core::Criticality	\$	ITSM::Core::Criticality		Functionality	Valid
Class:		1 very low		-	valid
	Add	<u>2 low</u>		-	valid
		<u>3 normal</u>		-	valid
Add Catalog Class:		4 high		-	valid
Add a new Catalog Class.		5 very high			valid
	Add				
					0
				Pov	wered by OTRS 2.3.1

6. Adjustment of ticket priorities

Tickets are arranged within OTRS::ITSM on the basis of ticket priorities, i.e. tickets with a higher priority are displayed further up in the queue views and lower priority ones in lower positions. Priorities can be adjusted, re-named and amended in the graphical admin frontend.



				neal Service
ile <u>E</u> dit ⊻iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> o	ols <u>H</u> elp			
🛑 🔶 🗕 🔁 🙁 🖀 🧻 http://	/localhost/otrs/index.pl?Action=Adm	inPriority		
[OTRS::ITSM 1.2.1]	5		Anakin Si	kywalker (skywalker@otrs.org) 10:06:32 - 08/27/20
O Service Config Item Stats Pr	references			New message (0) Locked Tickets
[Admin-Area]				
Users & Groups & Roles	Queue & Response		System	Misc
(Jean) (Toruns) (Jean & Groups) (Customer Lease) (Customer Leases) (Customer Leases ~ Services) (Roles ((Roles ~ Groups) (Poles ~ Groups) (Priority Management] Add Priority:	[Qeues] [Responses] [Auto Responses] [Auto Responses] [Auto Responses] [Attachments] [Attachments]	[Salutation] [Sanature] [Email Addust [Notification] [Genemicative [Control theory of Control [Control theory [Ture] [Status] [Pionty] [Sanize] [SiziA] [SiziA] [SiziA]	ilog] Impact <-> Priority]	[PostMaster/MailAccount] [PostMaster/Bitr] [GenericAgent] [Admin Motification] [Session Management] [Performance Log] [System Log] [SoL Box] [ImportExport] [SysConfig] [Package Manager]
Add a new Priority.	Name	valid/invalid	Changed	Created
	Add 1 very low	valid	08/07/2008 08:41	08/07/2008 08:41
	2 low	valid	08/07/2008 08:41	08/07/2008 08:41
	3 normal	valid	08/07/2008 08:41	08/07/2008 08:41
	4 high	valid	08/07/2008 08:41	08/07/2008 08:41
	5 very high	valid	08/07/2008 08:41	08/07/2008 08:41
				Powered by OTRS 2

More detailed information can be found in the OTRS Admin Manual.

Warning

The "id" attribute decides the OTRS::ITSM internal sequence of priorities. => 1 corresponds to the minimum and 5 (or higher) to the maximum. The number in the priority name is used to implement the correct sequence within the priorities.

Warning

In order to assure the consistency of the data managed in OTRS::ITSM, information created in the admin area of the system cannot be deleted as a general rule. If you want to deactivate such information, change the value in the respective listbox settings from "valid" to "invalid" or "invalid-temporarily".



Chapter 12. Additional OTRS applications - calendar

In OTRS 2.4, 9 calendars can directly be configurated graphically by default. This number can be extended to 99. Calendar configuration is effected in the admin interface using the SysConfig framework calendar 1 etc. links:

e <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks	<u>T</u> ools <u>H</u> elp			
🛚 • 🗼 • 🥑 🛞 🏠 🕒 http	//localhost/otrs/index.pl		▼ ▶ Google	
				A
Users & Groups & Roles	Queue & Responses	System	Misc	
Uaeme] Groupps] Uaemers-Caroupps] Cuatomer Uaeme] Cuatomer Company] Cuatomer Company] Robes] Robes] Robes <> Groupps] Robes <> Groupps]	[Queue] [Regonaes] [Regonaes] [Auto Regonaes] [Auto Regonaes] [Auto Regonaes] [Attachments] [Attachments]	[Salutation] [Signatuw] [Email Addresses] [Notification] [Genemil Catalog] [Priothy] [Critically <>> Impact <>> Priority] [Contigliem] [Situw] [Salutas] [Salutas] [Salutas] [Salutas]	[PostMaster POP3 Acount] [PostMaster Film] [GenericAgent] [Admin Notification] [Semion Monagement] [Performance Log] [System Log] [System Log] [SoL Box] [System[] [Package Munager]	
SysConfig]		[<u>S/MIME]</u> [<u>PGP</u>]		
Search (1064):	Result:			
Search for:	Subgroup	Elements	Group	
,	Core	24	Framework	
	Search Core::LinkObject2::PossiblePart	ner 3	Framework	
Group selection:	Core::LinkObject2::Types	7	Framework	
	Core::Log	6	Framework	
Group: Framework (309)	Core::MIME-Viewer	4	Framework	
	Show Core::MirrorDB	3	Framework	
	Core::PDF	4	Framework	
Download Settings:	Core::PDF Core::Package	4 6	Framework Framework	
Download Settings:				
-	Core::Package	6	Framework	
- Download all system config changes.	<u>Core::Package</u> <u>Core::PerformanceLog</u>	6	Framework Framework	
- Download all system config changes.	Core::Package Core::PerformanceLog Core::SOAP	6 3 2	Framework Framework Framework	
Download all system config changes.	Core::Package Core::PerformanceLog Core::SOAP Core::Sendmail	6 3 2 9	Framework Framework Framework Framework	
Download all system config changes.	Core::Package Core::PerformanceLog Core::SOAP Core::SOAP Core::Soap Core::Sendmail Core::Session	6 3 2 9 14	Framework Framework Framework Framework Framework	
Download all system config changes. Do Load Settings: File: Browse	wrload Core::Parkage Core::SOAP Core::SOAP Core::Sendmail Core::Session Core::SpellChecker	6 3 2 9 14 4	Framework Framework Framework Framework Framework Framework Framework	

"TimeWorkingHours" can be used in OTRS::ITSM to define so-called "service level windows" time frames in which certain service levels are guaranteed, if applicable monitored and/or evaluated to secure service level compliance.



TimeZone::Calendar1Name: Calendar Name 1 (Default: Calendar Name 1) TimeZone::Calendar1: The time zone of the queue. + 0 for the queue. TimeVacationDays::Calendar1: Add your permanent vacation days. Use single-digit pattern for months January to September and for days of month lower than ten. month 1 day Text 1 New 1 New Year's Eve! Delete 2 24 Christmas Day Delete 12 - 25 First Christmas Day Delete 12 - 26 Second Christmas Day Delete 12 - 31 Silvester Delete 12 - 1 - 1 Test Delete 12 - 1 - 1 Elete Elete 12 - 1	Co	onfig Options: Framework -> Core::Time::Ca	lendar1	
The time zone of the queue. (Default + 0) TimeVacationDays::Calendar1: Add your permanent vacation days. Use single-digit pattern for months January to September and for days of month lower than ten. month day Text 1 1 New Year's Evel Delete 2 -1 1 St. May Delete 12 -24 Christmas Delete 12 -26 First Christmas Day Delete 12 -26 Second Christmas Day Delete 12 -31 Silve ster Delete 12 -31 Silve ster Delete New war Text Delete				
Add your permanent vacation days. Use ingle-digit pattern for months January to September and for days of month lower than ten.				
One time vacation days. Use single-digit pattern for months January to September		Add your permanent vacation days. Use single-digit pattern for months January to September and for days of month lower	1 -1 New Year's Evel Delete 5 -1 1 St. May Delete 12 -24 Christmas Delete 12 -25 First Christmas Day Delete 12 -26 Second Christmas Day Delete 12 -28 Second Christmas Day Delete 12 -31 Silve ster Delete	
		One time vacation days. Use single-digit pattern for months January to September	2004 - 1 - 1 test Delete	



Chapter 13. OTRS::ITSM interfaces

The following, partly generic, interfaces can be used for data exchange between OTRS::ITSM and other (ITSM) software products:

- NAGIOS
- SOAP
- LDAP
- E-mail (POP3, IMAP, SMTP)
- CSV Import/Export

OTRS AG will gladly create additional interfaces on request or members of the community can develop them.



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