

Documentation

OTRS::ITSM 6

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OTRS::ITSM 6

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The source code of this document can be found at github, in the repository doc-itsm. Contributions are more than welcome. You can also help translating it to your language at Transifex.





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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 (agents) and end users (customers). Information pertaining to the installation, configuration and administration of OTRS::ITSM 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 or the way they are presented, have suggestions or any 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 - OTRS for IT service management

IT is expected to consistently deliver 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 focus on 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 has 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 to a little extent 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 started as a result of the great success of the OTRS framework 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 basis of OTRS with its over 55,000 known OTRS installations and its community (information dating from April 2007). OTRS::ITSM is under active development and new features are added continuously.

OTRS::ITSM is practically-oriented. This was accomplished by developing it in collaboration with ITIL consultants and with some of OTRS Groups' customers.

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

OTRS::ITSM and OTRS are freely available (no license fees apply) and are subject to GNU GNU GENERAL PUBLIC LICENSE (GPL).

1. Features

OTRS::ITSM 6 is based on OTRS 6. 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 6 features

OTRS::ITSM 6 offers:

- Ported code to the OTRS 6 framework.
- Added new feature for ITSMConfigurationManagement to suppress adding a new config item version for special attributes.
- OTRS::ITSM 6 includes many other small bug fixes and improvements.

1.2. New OTRS::ITSM 5 features

OTRS::ITSM 5 offers:

- Ported code to the OTRS 5 framework.
- OTRS::ITSM 5 includes many other small bug fixes and improvements.

1.3. New OTRS::ITSM 4 features

OTRS::ITSM 4 offers:

- Ported code to the OTRS 4 framework.
- New powerful template engine based on Template::Toolkit
- A central object manager makes creating and using global objects much easier.
- OTRS::ITSM 4 includes many other small bug fixes and improvements.
- All OTRS::ITSM 4 translations will be now managed exclusively via Transifex: https:// www.transifex.com/projects/p/OTRS/resources/ Please sign up for a free translators login on http://www.transifex.com and join one of the language teams if you want to contribute to OTRS::ITSM.
- Improved and more flexible incident state link propagation. It is now possible to add more than one link type for the incident state calculation, as well to define the link direction for each link type. (Take a look at the sysconfig option "ITSM::Core::IncidentLink-TypeDirection")
- GenericInterface for ITSM Configuration Management. This feature contains operations for creating, changing, retrieving and searching configuration items via GenericInterface.
- Bulk actions for ITSM Configuration Management. This feature provides a screen to perform certain actions over a selection of ITSM Configuration Items.
- New color flag for the "deployment state" in ITSM Configuration Management. This feature adds a flag column to the Configuration Item Overviews with the color of the Deployment State, it also adds a color picker to the General Catalog to define the color preference of each Deployment State.
- Dynamic fields for ITSM Change Management. The freetext fields for changes and workorder have been migrated to more flexible dynamic fields.
- Improved and easier handling of templates for changes, workorders and change advisory boards (CAB). It is now easier to edit a template by selecting it from the template overview. A new change or workorder will be created, which can then be edited and saved back in to the same template, while the change or workorder will be deleted after it has been saved.



1.4. New OTRS::ITSM 3.3 features

OTRS::ITSM 3.3 offers:

- Ported code to the OTRS 3.3 framework.
- Integrated Feature AddOn "OTRSServiceIncidentState" into OTRS::ITSM. It shows the current incident state of a selected service in the ticket zoom, and in all agent frontends where a service can be selected (can be disabled on a per screen basis).
- Integrated Feature AddOn "OTRSCIColumns" into OTRS::ITSM. This feature makes it possible to configure the shown CI-Attributes individually for each ConfigItem class. This is possible for the CI-Overview, the CI-Search-Overview and the Linked-CI view in the agent interface.
- Integrated Feature AddOn "OTRSWorkOrderTimeDependency" into OTRS::ITSM. If this feature is enabled and you change the planned end date of a workorder, all following workorders will also be moved accordingly, so that the time differences between the workorders will still be the same.
- Integrated Feature AddOn "OTRSCIAttributeSyntaxCheck" into OTRS::ITSM. This feature
 makes it possible to check the syntax of CI attributes with a regular expression while
 adding or editing CIs via the agent interface (not while importing CIs with the Import/Export module). CI attributes of the type "Text" and "TextArea", as well as the CI name can
 be checked with individual regular expressions. An individual error message is shown if
 the attribute does not match the defined pattern. With this feature it can be enforced
 that for example a CI attribute must start with "ABC" or must end with a number.
- Added new feature "WorkOrder Report Attachments" into OTRS::ITSM. This feature adds support for attachment uploads in the workorder report screen.
- The toolbar icons now use an icon font which makes it easier to create custom skins with different base colors.
- Migrated ITSMCriticality and ITSMImpact values from general catalog to dynamic fields.
 Renamed ITSM related dynamic fields to nicer names, prefixed with ITSM.
- In ITSMChangeManagement the frontends to create changes / workorders have been splitted in 2 screens each. One to create a new change / workorder from scratch, and one to create it from a template.

1.5. New OTRS::ITSM 3.2 features

OTRS::ITSM 3.2 offers:

- Ported code to the OTRS 3.2 framework.
- Enhanced Import/Export screen to show a summary after importing.
- Added attachment support for ITSM config items.
- Added new optional sysconfig option to check if config item names are unique.

1.6. New OTRS::ITSM 3.1 features

OTRS::ITSM 3.1 offers:

- Ported code to the OTRS 3.1 framework.
- Added caching to speed up the condition / action backends in change management.



• Added possibility to use a mirror database for change and workorder searches in change management.

1.7. New OTRS::ITSM 3.0 features

OTRS::ITSM 3.0 offers:

- Brand New Interface OTRS 3.0 Look & Feel
- Ported code to the OTRS 3.0 framework.
- New Generic Search Dialogs.
- New Search result types (Print, PDF and CSV).

1.8. New OTRS::ITSM 2.1 features

OTRS::ITSM 2.1 offers:

Change Management

Improved speed of Change Management and GeneralCatalog by implementing caching technology.

New powerful FreeText fields for Changes and Workorders in Change Management.

Implemented an option to reset the change and workorder states while saving as template.

New alternative checksum generator for the change number.

New option to show workorder title and workorder state in the change zoom timeline.

1.9. 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.

1.10. New OTRS::ITSM 1.3 features

OTRS::ITSM 1.3 is based on OTRS 2.4

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

1.11. New OTRS::ITSM 1.2 features

OTRS::ITSM 1.2 is based on 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 one another. To you as a user, that means that you neither have to install the packages in a certain installation order nor do you have to install them all in order 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. This 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 of the features from both former Link object mechanisms.

Improved speed

Changing database access technology to using SQL bind parameters made it possible to access the Configuration Items (CI) database faster than previously.

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 a SLA to multiple Services.

SLA Overview

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

Refresh-Mechanism

A refresh mechanism was added to refresh the service overview and the config item overview screens automatically.

1.12. New OTRS::ITSM 1.1 features

OTRS::ITSM 1.1 offers:

Authorization concept

Each object like Service/SLA, Location, CI, Linkobject now creates a corresponding group, so the agents rights can be assigned with more granularity.

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 Cls, including information on each object's current state, allows you to analyze an incident and calculate the incident's impact on affected services and customers. As an enhancement of the service view, now SLAs and linked Cls are also displayed. For each Cl, the current incident state is shown. In addition, the incident state will be propagated for dependent SLAs and Cls. 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 Cls.

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

• CI search and linking from agent interface

A service agent may search, select, and assign any of a customer's 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 CMDB 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 requires 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 are 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 has been created, e.g.:

Basic reports for tickets and configuration items (CIs):

- Total of all tickets ever created per ticket-type and priority (state, queue, service).
- Monthly overview of all tickets ever created 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 (Cls) created in a defined period per class (per state).

Many more reports have been added which provide specific data regarding first time solution rate and average resolution time:

- First time solution rate of all tickets ever created 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 tickets ever created 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 Cls, Services, SLAs, Locations.

1.13. 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 foundation 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 interdependencies 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 Cls, 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.

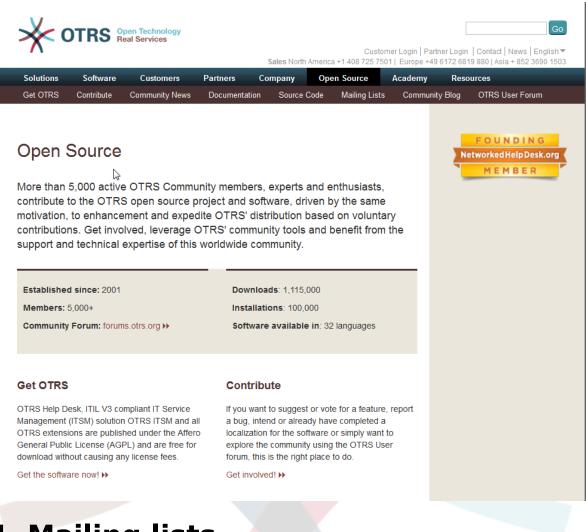
3. Community

A large community has evolved around OTRS throughout 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 also, to constantly improve the product's quality. You can join the community at our homepage http:// otrs.org (http://otrs.org/).



Figure 1.1. OTRS.org



4. Mailing lists

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



Figure 1.2. lists-otrs-org

				Sales North /				ct News English▼ Asia + 852 3690 1503
Solutions	Software	Customers	Partners	Company	Open Source	Academy	Resources	
Get OTRS	Contribute	Community News	Documenta	tion Source C	Code Mailing L	ists Commu.	nity Blog OTF	RS User Forum
Mailin	g Lists	2						
manni	y L1313							
Subscribe	to a mailing	list of your inter	rest and rer	nain up-to-da	ate, post your			
1.		ne archives for p						
		ercial communit			•	answer		
to every qu	lestion and	that is related to	o a specific	topic and lan	iguage.			
			_					
Announce	ements		Dev	elopers				
		cements about OTR			velopers to discus			
	IL [®] V3 compati and OTRS exte	ble ITSM solution		d to the develop acements and iss	ment of new relea sues.			
	Mailing List 🕨		Subso	ribe to Mailing L	ist 🕨			
Browse the M	lailing Lists Arc	hive 🕨	Brows	e the Mailing Lis	ts Archive 🕨			
OTRS Hel	p Desk Us	ers	OTR	S ITSM Use	rs			
		elp Desk users to file		st is used by OT	RS ITSM users to	file		
This list is use	d discuss resol	utions amongst eac	h questi other.	ons and discuss	resolutions amon	igst each		
This list is use				ribe to Mailing L	ist 🕨			
This list is use questions and other.	Mailing List 🕨							
This list is use questions and other. Subscribe to	Mailing List ₩ Iailing Lists Arc	hive 🕨	Brows	e the Mailing Lis	ts Archive 🕨			



Chapter 2. Commercial services for OTRS::ITSM

OTRS AG is the 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. Our staff are highly skilled experts and we believe in deploying the most modern methods. 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 you 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 absolutely 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 permitted 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

Please note that the OTRS framework 6 must be installed prior to the installation of OTRS::ITSM. All necessary information, options and installation procedures are depicted in the OTRS Admin Manual.

1. Installation

After successfully installing OTRS 6 or a later version, proceed to sign on as administrator. Using the package manager in the admin area or via ftp://ftp.otrs.org/pub/otrs/itsm/ packages6/ obtain the ITSM packages and install them in the following order:

- GeneralCatalog
- ITSMCore

If your machine running OTRS has internet access, use the following online repository [--OTRS::ITSM 6 Master--] to install the packages below. Otherwise download the packages below and use the package manager to install them:

- ITSMIncidentProblemManagement
- ITSMConfigurationManagement
- ITSMChangeManagement
- ITSMServiceLevelManagement
- ImportExport

You can find further information about the installation process here: INSTALL-6.ITSM

Ž DASHBOARD TICKETS STATISTIC	S CUSTOMERS ADMIN	۹		You	are logged in as	Jane Smith
No packages, or no new packages, found in s	elec <mark>ied repository.</mark>					
Package Manager						
Actions	Online Repository					
Browse_	NAME VERSION No data found.	V	ENDOR	DESCRIPTION	ACTIO	N
[OTRS::ITSM 3.1 Master] http://ftp.o[] Update repository information	Local Repository					
	NAME	VERSION	VENDOR	DESCRIPTION	STATUS	ACTION
4	GeneralCatalog	3.1.6	OTRS AG	The General Catalog package.	installed	Uninstall
Hint	ImportExport	3.1.6	OTRS AG	The ImportExport package.	installed	Uninstall
Did not find a required feature? OTRS Group provides their subscription customers with exclusive Add-Ons: http://add-ons.otrs.com.	ITSMChangeManagement	3.1.6	OTRS AG	The OTRS::ITSM Change Management package.	installed	Uninstall
+++ OTRS	ITSMConfigurationManagement	3.1.6	OTRS AG	The OTRS::ITSM Configuration Management package.	installed	Uninstall
Feature Add-Ons	ITSMCore	3.1.6	OTRS AG	The OTRS::ITSM Core package.	installed	Uninstall
	ITSMIncidentProblemManagement	3.1.6	OTRS AG	The OTRS::ITSM Incident and Problem Management package.	installed	Uninstall
	ITSMServiceLevelManagement	3.1.6	OTRS AG	The OTRS::ITSM Service Level Management package.	installed	Uninstall



2. Upgrade

If you are using a version older than OTRS::ITSM 1.1, please update the system to the latest version 1.1 first.

If OTRS::ITSM 1.1 has already been installed, 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 named 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 of 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 already installed, 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 1.3 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. WARNING: Do not uninstall your current packages, or you will lose data!



Chapter 4. First steps in OTRS::ITSM

The first thing that you might notice is that 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 continue to be used without any modifications.

The manual at hand will therefore only discuss differences between OTRS and new aspects of OTRS::ITSM, while paying particular attention to the following:

- IT services and SLAs
- The CMDB
- New ticket fields and functions
- ITIL compliant terminology

Detailed information on the settings and proceedings that are identical in both OTRS and OTRS::ITSM are provided at https://doc.otrs.com/doc/manual/admin/6.0/en/html/ in the OTRS Admin Manual, which is continuously being revised.

Figure 4.1. Admin-Manual

OTRS 3.1 - Admin Manual

OTRS 3.1 - Admin Manual

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

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Next

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Preface

<u>1. Trouble Ticket Systems - The Basics</u> <u>What is a trouble ticket system, and why do you need one?</u> <u>What is a trouble ticket?</u>



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

Just like 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 that can be adapted to meet the requirements of virtually every organization.

Therefore, please excuse us for bringing the following to your attention: The use of an ITIL aligned tool such as OTRS::ITSM only makes sense if processes, people, and products (IT services) are truly ITIL aligned.

Without the thoughtful tailoring of generic ITIL processes to meet the requirements of the specific business scenario, OTRS::ITSM will not achieve a discernible improvement of the key performance indicators of IT service management.

You should also be aware of the fact that successful ITIL implementation projects typically take up to a year and longer. Their scope and impact on the organization is not to be underestimated. However, we would like to mention that a neatly implemented ITIL aligned ITSM tool can help to save time and money, as the process support of the tool aids and accelerates the process of organizational realignment.

Since version 2.0, OTRS::ITSM supports the following features and processes, which are usually designed during the first phase of an ITIL implementation: Incident Management, Problem Management, Service Level Management, Change Management and the Configuration Management Database.

A more detailed description of use and adaptation of the system can be found in the following sections. Please note that the each OTRS::ITSM package can be installed independently and that their names correspond to their respective ITIL topics.

The 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 makes it difficult to display a complete database model in a single graphic. For this reason, separate graphics will be provided for the OTRS framework and for ITSM packages which change or extend the database scheme.

1.1. OTRS Framework

For better readability, the diagram can be found at: https://github.com/OTRS/otrs/blob/ rel-6_0/development/diagrams/Database/OTRSDatabaseDiagram.png

1.2. GeneralCatalog

For better readability, this diagram can be found at: https://github.com/OTRS/GeneralCatalog/blob/rel-6_0/doc/general-catalog-database.png

1.3. ITSMCore

For better readability, this diagram can be found at: https://github.com/OTRS/ITSM-Core/blob/rel-6_0/doc/itsm-core-database.png

1.4. ITSMConfigurationManagement

For better readability, this diagram can be found at: https://github.com/OTRS/ITSMConfigurationManagement/blob/rel-6_0/doc/itsm-configuration-management-database.png



1.5. ITSMChangeManagement

For better readability, this diagram can be found at: https://github.com/OTRS/ITSM-ChangeManagement/blob/rel-6_0/doc/itsm-change-management-database.png

1.6. ImportExport

For better readability, this diagram can be found at: https://github.com/OTRS/ImportExport/blob/rel-6_0/doc/import-export-database.png

2. Services, at the core of everything

Services such as "standard IT workstation", "e-mail" or "web access" are IT products and should be compiled in a "IT service catalog" prior to the adoption of OTRS::ITSM. Such a service catalog is usually customer or company specific and can be structured hierarchically. Furthermore, it should be formulated in a user friendly, meaning easily understood, language, as both IT personnel (agents) and IT users (customers) are among its audience.

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 to 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

* ²			You are logged in as Jane Smith 🕐
DASHBOARD TICKETS	STATISTICS CUSTOMERS ADMIN Q		
Create New Phone Ticket			
* Type:	-		Customer Information
	I "Jim User" <jim@otrs.com></jim@otrs.com>	Θ	Firstname: Jim
*From customer:			Lastname: User
* To queue:			Username: jim
			Email: jim@otrs.com
	-		Phone: 555 - 123 456
Service Level Agreement:	- Backups and archiving		Street: Pier 5
Owner:	Communication		City: San Francisco
Responsible:	Desktop Management Desktop productivity tools		🚱 Location
* Subject:	File / Print		Open tickets (2)
	Helpdesk		
Options:	IT Operations Identity and Access Management		
* Text:	Internet		
B I U S 🗄 🗄 👼 👼	Network access		
	Standard desktop		
Format 🔽 Font 🔽	Size Size Size		

Figure 6.1. agent-phoneticket

and in the administration area.



DASHBOARD TICKETS	STATISTICS CUSTOMERS ADMIN	Q			
Service Management					
Actions	List				
Add service	SERVICE	COMMENT	VALIDITY	CHANGED	CREATED
	Backups and archiving		valid	08/27/2012 11:03	08/27/2012 11:03
	Communication		valid	08/27/2012 11:00	08/27/2012 11:00
	Desktop Management		valid	08/27/2012 11:02	08/27/2012 11:02
	Desktop productivity tools		valid	08/27/2012 11:01	08/27/2012 11:01
	File / Print		valid	08/27/2012 11:01	08/27/2012 11:01
	Helpdesk		valid	08/27/2012 11:02	08/27/2012 11:02
	IT Operations		valid	08/27/2012 11:02	08/27/2012 11:02
	Identity and Access Management		valid	08/27/2012 11:03	08/27/2012 11:03
	Internet		valid	08/27/2012 11:02	08/27/2012 11:02
	Network access		valid	08/27/2012 11:01	08/27/2012 11:01
	Remote access		valid	08/27/2012 11:01	08/27/2012 11:01
	Standard desktop		valid	08/27/2012 11:00	08/27/2012 11:00

Figure 6.2. admin-service-managment-overview

Powered by OTRS 3.1.9

Top of page 🔼

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.

Figure 6.3. admin-sla-management-overview

* ²						You are	ogged in as <mark>Jane</mark> Smi
DASHBOARD TICKETS	STATISTICS CUSTOMERS	ADMIN	Q				
SLA Management							
Actions	List						
🛨 Add SLA	SLA	SERVICE	ar .	COMMENT	VALIDITY	CHANGED	CREATED
	24/7	Backups and a	- 0		valid	08/27/2012 11:03	08/27/2012 10:57
		Communicatio	n				
		Desktop Manag	jement				
		Desktop produ	ctivity tools				
		File / Print					
		Helpdesk					
		Identity and Acc	ess				
		Management					
		Internet					
		IT Operations					
		Network acces	5				
		Remote acces	3				
		Standard desk	ор				
	Ext Business Hours	Backups and a	rchiving		valid	08/27/2012 11:03	08/27/2012 10:58
		Communicatio	n				
		Desktop Manag	jement				
		Desktop produ	ctivity tools				
		File / Print					
		Helpdesk					
		Identity and Acc	ess				
		Management					
		Internet					



The following parameters can be recorded with every SLA:

* ²				You are logged in as Jane Smith 🕐
DASHBOARD TICKETS	S STATISTICS	CUSTOMERS	ADMIN	9
SLA Management				
Actions		Edit SLA		
Go to overview			SLA:	Ext Business Hours
			Type:	Availability •
			Service:	Backups and archiving Communication Desktop Management Desktop productivity tools File / Print
			Calendar:	Calendar 3 - 24 / 7 🔹
		Escalation - first re	esponse time (minutes):	120 (Notify by 70% ▼) 0 = no escalation - 24 hours = 1440 minutes - Only business hours are counted.
		Escalation - update tir	me (minutes):	180 (Notify by 80% -)
				0 = no escalation - 24 hours = 1440 minutes - Only business hours are counted.
		Escalation - solution tir	me (minutes):	480 (Notify by 90% -)
				0 = no escalation - 24 hours = 1440 minutes - Only business hours are counted.
		Minimum Time Betw	een Incidents (minutes):	480
			Validity:	valid 🔹
			Comment	
				Submit or Cancel

Figure 6.4. admin-sla-management-edit

OTRS::ITSM offers by default up to 99 different calendars 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.

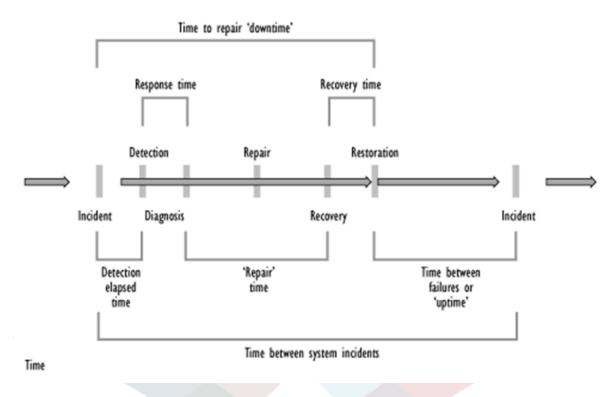
Warning

If no values for the above-named times are entered in the SLAs, escalation is affected 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":

Figure 6.5. 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:

Figure 6.6. agent-configuration-items

Ξ.										ed in as Jane Smith
ASHBOA	RD TICKETS	SERVICES	CMDB	CHANGES	STATISTICS	CUSTOMERS	ADMIN	٩		
/erviev	ITSM Configite	m: Compute	r							
	V: ITSM Configite mputer 2 Hardware 1			Software 0						
	-			Software 0			-	-	-	1-2 of 2
I 3 Co	-			Software 0	ENT STATE	CURRENT INCIDENT S	TATE L	AST CHANG	ED	1-2 of 2
	mputer 2 Hardware 1	Location 0	Network 0			CURRENT INCIDENT S		AST CHANG 8/27/2012 1		1-2 of 2

Example of an individual CI view:



Figure 6.7. agent-configitem-management-link

A SHBOARD TICKE	TS SERVICES	CMDB	CHANGES	STATISTICS	CUSTOMERS	ADN	AIN Q	
Configuration Iter	n: 389433000001 —	P1234						
							Configuration Ite	m Information
ack History Edit Print L	ink Duplicate						Class:	Hardware
						_	Name:	P1234
						₽	Current Deployment State:	Production
VERSION INCIDENT STATE	VERSION NUMBER	NAME P1234 (P		REATED BY ne (Jane Smith)	CHANGED 08/27/2012 12:00:16	4	Current Incident State:	Operational
		1 1234 (1	loudcion) ja	ne (Jane Onitin)	00/21/2012 12:00:10	- 1	Created:	08/27/2012 12:00:16
 Configuration Item Version 							Created by:	Jane Smith
PROPERTY	VALUE						Last changed:	08/27/2012 12:00:16
Name:	P1234						Last changed by:	Jane Smith
Deployment State:	Production							
Incident State:	Operational							
Vendor:	Brother							
Model:	HL-2150N							
Description:								
Type:	Printer							
Owner:								
Serial Number:	Z21489AK							
Serial Number: Warranty Expiration Date:	Z21489AK 04/27/2018							

The graphic exemplifies 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:

Figure 6.8. agent-configitem-management-link2

ink Object: ConfigItem# 389433000001: P1234 lose window								
Select Target Object								
Link Object ConfigItem# 3	39433000001 with: Com	puter 👻 S	elect					
Search					à			
ConfigItem#:								
Name:								
Deployment State:	Expired Inactive Maintenance							
Incident State:	Incident Operational Warning							
	Search							

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.



4.1. GenericInterface for ITSM Configuration Management

There is a GenericInterface for ITSM Configuration Management. This feature contains operations for creating, changing, retrieving and searching configuration items via GenericInterface. The following operations are available: ConfigItemCreate(), ConfigItemGet(), ConfigItemUpdate(), ConfigItemSearch(). For more information please take a look at the WSDL file: https://github.com/OTRS/ITSMConfigurationManagement/blob/rel-6_0/development/webservices/GenericConfigItemConnectorSOAP.wsdl

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 to 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 by 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.



2 DA SHBOARD	TICKETS	SERVICES	CMDB	CHANGES	STATISTICS	CUSTOMERS	ADMIN) Q	You are logged in as Jane Smith
ype Manage	ement								
octions		2	List						
🚹 Add ticket typ	pe	45	NAME		VALID	TY CHANGE	D		CREATED
			Incident		valid	08/27/2	012 10:49		08/27/2012 10:49
			Incident:Dis	saster	valid	08/27/2	012 10:49		08/27/2012 10:49
			Incident:Se	rviceRequest	valid	08/27/2	012 10:49		08/27/2012 10:49
			Problem		valid	08/27/2	012 10:49		08/27/2012 10:49
			Problem::Kr	nownError	valid	08/27/2	012 10:49		08/27/2012 10:49
			Problem::Pe	endingRfC	valid	08/27/2	012 10:49		08/27/2012 10:49
			RfC		valid	08/27/2	012 10:51		08/27/2012 10:51

Figure 6.9. admin-type-management

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 converge here. The ITIL service management process, closely interwoven with the service desk, describes 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 much as possible.

1. Ticket creation, classification and prioritization

At ticket creation -in our case a phone ticket- the following information can be registered in addition 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. However, every IT service staff member knows a "VIP" customer requires special consideration.

In order to meet this requirement of day-to-day Service Operations, we also allow you to manually adjust the priority of a request.



Figure 7.1. agent-ticket-create

Create New Phone Ticket		
* Type:	Incident:ServiceRequest -	Custo
	● "Jim User" <jim@otrs.com></jim@otrs.com>	
*From customer:	Т	
* To queue:	Service Desk 💌	
Service:	File / Print 👻	
Service Level Agreement:	-	
Owner:	Smith Jane (jane) 🔹 🖉	
Responsible:	· • @	
* Subject:	Request for new file share Marketing Collateral	
Options:	[Customer][Link ticket]	
* Text:		
B I ∐ S ≟Ξ Ξ Ξ Ξ	E = = = © 😳 E - 🔦 A	
Format 💌 Font 💌	Size 🔽 🚣 🖉 🧭 👩 Source	
In order to let the MAR team colla Marketing collateral.	borate more efficiently they would like to get a separate file-share for	
Kind regards, Jim User		

Customer Information						
Firstname:	Jim					
Lastname:	User					
Username:	jim					
Email:	jim@otrs.com					
Phone:	555 - 123 456					
Street:	Pier 5					
City:	San Francisco					
🔞 Location						
Open ticke	<u>ts (2)</u>					

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

Figure 7.2. agent-ticket-data-change

³ ¹ A SHBOARD Ticket#201		SERVICES 014 — Can'	CMDB	CHANGES	STATISTICS	CUSTOMERS	ADMIN	You	are logged in as Jane Smith Z
Article(s)			Age	: 1 h 42 m – Creat	ed: 08/27/2012	11:05 by Jane Smi	h Ticket I	nformatio	n
ack Lock History ending Close • M		Additional ITSM Fie	elds Link (Dwner Responsible	Customer Dec	ision Note Merge	₽	State: Locked: Queue:	unlock Service Desk
[∧] NO. 1	TYPE customer –	≓ ⊷	FROM	SUBJECT Can't access VPN	CREAT	red 0	_	ponsible:	Jane Smith Jane Smith
#1 – Can't ac orward Phone Call					: 08/27/2012 11	:05 by Jane Smith			Network access Ext Business Hours
From:	Jim User Service Desk			- opy •				Response Time: Jate Time:	08/27/2012 13:05
Subject: Get error messag	Can't access VPN ge 'Username/pa:						_	tion Time:	08/27/2012 14:05
									5 very high 3 normal
								Priority:	
								stomerID:	CUSTOMER

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:



Figure 7.3. agent-ticket-additional-field

Change ITSM fields of ticket : 201208273894000032 - Request for new file share Marketing Collateral Cancel & close window							
Options							
*Title:	Request for new file share Marketing Collateral						
Repair Start Time:	□ 08 v/27 v/2012 v 10 - 12 v 59 v						
Recovery Start Time:	□ 08 v/27 v/2012 v 10 - 12 v; 59 v						
Due Date:	□ 08 ▼/30 ▼/2012 ▼ □ - 12 ▼ 59 ▼						
Submit							

3. Allocate tickets (queues)

Designed with flexibility in mind, the OTRS::ITSM queues can be tailored to your organizational structures. They can follow the vertical scheme of service desk, first, second and third level support (as 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 postprocessing.

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.

Figure 7.4. agent-ticket-queue

SHBOARD TICKETS ST	TATISTICS CUSTOMERS	ADMIN Q		U	Ins
eueView: Service Desk					
Queues (0) Service Desk (2)					
ickets 2 Available tickets 2					
Bulk					1-2 of 2 S
Ticket#: 201208273894000	014 – Can't access VPN fr	om home location			
From Jim User	Age 3 m	Queue Service Desk	First Response Time 1 h 56 m / 08/27/2012 13:05	Update Time 2 h 56 m / 08/27/2012 14:05	Solution Time 7 h 56 m / 08/27/2012 19:05
To Service Desk	Created 08/27/2012 11:05:48	State open	Type Incident	Priority 4 high	
Subject Can't access VPN from home location	Owner Jane Smith	Lock unlock	Service Network access Service Level Agreement Ext Business Hours	CustomerID CUSTOMER	
Ticket#: 201208273894000	023 – Please restore K:\A	ccounting\Overview.xls			
From Jim User	Age 3 m	Queue Service Desk	First Response Time 1 h 57 m / 08/27/2012 13:06	Update Time 3 h 57 m / 08/27/2012 15:06	Solution Time 29 h 57 m / 08/28/2012 17:
To Service Desk	Created 08/27/2012 11:06:46	State open	Type Incident:ServiceRequest	Priority 4 high	
Subject Please restore K:\Accounting \Overview.xls	Owner Jane Smith	Lock unlock	Service Backups and archiving Service Level Agreement Std Business Hours	CustomerID CUSTOMER	

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.

Figure 7.5. agent-ticket-data-change

	BOARD	TICKETS	SERVICES	CMDB	CHANGES STAT		CUSTOMERS	ADMIN Q	are logged in as Jane Sm
) т	icket#201	208273894000	014 — Car	n't access	VPN from home locat	tion			
rtic	le(s)			Ag	e: 1 h 42 m – Created: 08	/27/2012 11:0	5 by Jane Smith	Ticket Informatio	n
11	.ock History	/ Print Priority /	Additional ITSM F	ields Link	Owner Responsible Custo	omer Decision	Note Merge	Type:	Incident
	Close -	Move -						State:	open
ng.	1 01036							Locked:	unlock
							_	Queue:	Service Desk
								Owner:	Jane Smith
	NO.	TYPE	≓	FROM	SUBJECT	CREATED	Q	Responsible:	Jane Smith
	1	customer –		Jim	Can't access VPN from	08/27/2012			
_								Service:	Network access
#1	– Can't a	ccess VPN from	home locati	on	Created: 08/27	7/2012 11:05 b	by Jane Smith	Service Level Agreement	Ext Business Hours
arc	I Phone Cal	Outbound Phone	Call Inbound S	plit Print	- Reply - 🗸			Agreement	
	From:	Jim User						First Response	
	To:	Service Desk							08/27/2012 13:05
	Subject:	Can't access VPN	from home locat	ion				Update Time:	1 h 17 m 08/27/2012 14:05
ote	error messa	ge 'Username/pa	ssword do not	match".				Solution Time:	6 h 17 m 08/27/2012 19:05
								Criticality:	5 very high
								Impact	3 normal
								Priority:	4 high
								CustomerID:	CUSTOMER

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 by 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:



Figure 7.6. agent-ticket-decision

Change Decision of Ticket : 201209273904000014 Cap't access VPN from home location

Cancel & close window	
Options *	ubject: Decision
	*Text B I U S HE HE S S E E E E E E E E E E E E E E
	Format Font Size Ar Zr & Construction Source
	li.
Atta	Browse_
N	e type: note-internal -
Decision	Result Approved -

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

Within OTRS, service requests and incidents are both regarded as tickets and initially 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.



A: 24		SERVICES	CMDB CMDB CMDB	GES STATIS	STICS CUSTOMERS	ADMIN Q	
	17						
						SLA Information	
ck Print	t					Created:	08/27/2012 10:57:21
	04.17						Jane Smith
SLA:		A				Last changed:	08/27/2012 11:03:43
	Type:	Availability				Last changed by:	Jane Smith
	Calendar:	Calendar 3 - 24 / 7					
FI	rst Response Time:	120 minutes					
	Update Time: Solution Time:	120 minutes 240 minutes					
Minir	num Time Between	240 minutes					
WIITIIT	Incidents:	240 minutes					
Associat	ed Services						
STATE	SERVICE		TYPE	CRITICALITY	CHANGED		
	Backups and arch	iving	IT Management	5 very high	08/27/2012 11:03:24		
	Communication		End User Service	4 high	08/27/2012 11:00:31		
Desktop Management		End User Service	3 normal	08/27/2012 11:02:50			
Desktop productivity tools		End User Service	3 normal	08/27/2012 11:01:19			
File / Print		IT Operational	4 high	08/27/2012 11:01:03			
	Helpdesk		Back End	2 low	08/27/2012 11:02:20		
	IT Operations		IT Operational	2 low	08/27/2012 11:02:33		
	Identity and Acces	s Management	IT Management IT Operational	5 very high 5 very high	08/27/2012 11:03:09 08/27/2012 11:02:06		

Figure 7.7. agent-service-request



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 6.0.1 or higher
- 2. ITSM "GeneralCatalog" package, version 6.0
- 3. ITSM "ITSMCore" package, version 6.0

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

- ITSM "ITSMIncidentProblemManagement" package, version 6.0
- ITSM "ITSMServiceLevelManagement" package, version 6.0
- ITSM "ITSMConfigurationManagement" package, version 6.0
- ITSM "ImportExport" package, version 6.0

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.



Figure 8.1. change-workorder-schema

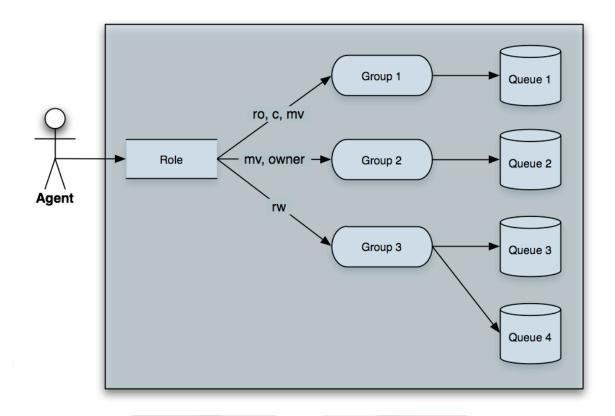


3. Available User Roles

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.



Figure 8.2. otrs-permissions-roles



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.

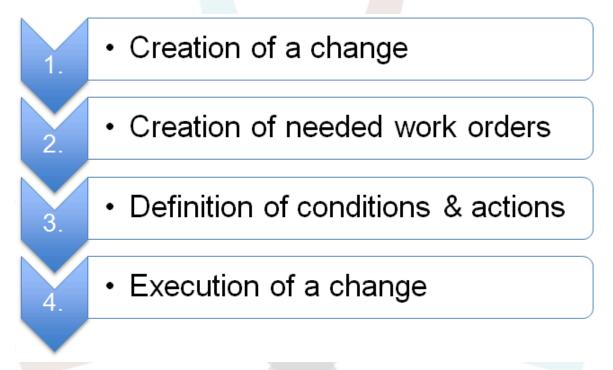


User role	Access and privileges
	These users can edit all Changes and Work Orders.

4. Underlying Workflow

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

Figure 8.3. change-workflow



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?"



Attribute	Required Field	Details
Category	Yes	Defines the type of Change, e.g "3 normal", etc.
Impact	Yes	Defines the effects or impact the Change will have, e.g. "4 high", etc.
Priority	Yes	Defines the priority of the Change, e.g. "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, see Sec- tion 5.3, " Change State Ma- chine " [39].
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.

Figure 8.4. change-matrix

PACT \ CATEGORY	1 VERY LOW	2 LOW		3 NORMAL	4 HIGH		5 VERY HIGH	
very low	1 very low -	1 very low	-	2 low	2.011	•	3 normal	•
low	1 very low	2 low	•	2 low	3 normal	•	4 high	Ŧ
normal	2 low -	2 low	•	3 normal	· 4 high	•	4 high	Ŧ
high	2 low 👻	3 normal	•	4 high 🗖	· 4 high	•	5 very high	•
very high	3 normal 🗸	4 high	-	4 high	5 very high	-	5 very high	•

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

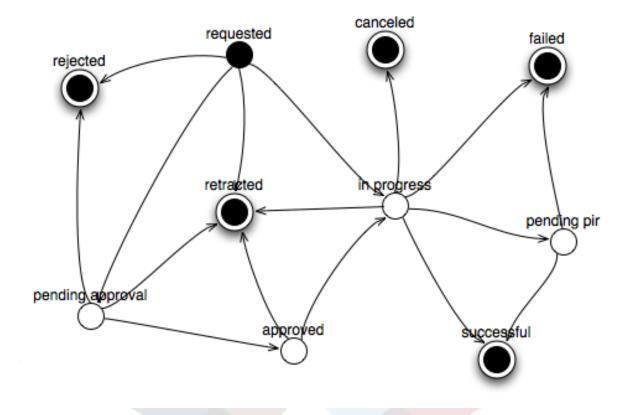
- 1 very low
- 2 low
- 3 normal
- 4 high
- 5 very high

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:



Figure 8.5. change-state-machine



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

Figure 8.6. change-state-transition

Actions	Overview over state transitions	Overview over state transitions for ITSM::ChangeManagement::Change::State				
Go to overview	STATE	NEXT STATE	DELETE			
	START	Requested				
	Requested	In Progress	Ť			
	Requested	Pending Approval				
	Requested	Rejected				
	Requested	Retracted	Ť			
	Pending Approval	Approved	Ť			
	Pending Approval	Rejected	Ť			
	Pending Approval	Retracted	Ť			
	Rejected	*END*	Ť			
	Approved	Retracted	Ť			
	Approved	In Progress	Ť			
	In Progress	Canceled	Ť			
	In Progress	Failed	Ť			
	In Progress	Pending PIR	Ť			
	In Progress	Retracted	Ť			
	In Progress	Successful	Ť			
	Pending PIR	Failed	Ť			
	Pending PIR	Successful	Ť			
	Successful	*END*	Ť			
	Failed	*END*	Ť			
	Canceled	*END*	Ť			
	Retracted	*END*	Ť			

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



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.

Figure 8.7. change-involved-persons

Involved Persons				
* Change Manager:	"Jack Brown" <jack@otrs.com></jack@otrs.com>			
* Change Builder:	lane Smith" <jane@otrs.com></jane@otrs.com>			
Submit				
Change Advisory Board				
CAB Template: Apply Template Save this CAB as template				
Add to CAB:				
Current CAB:				
TYPE	LOGIN	DELETE		
Agent	joe (Joe Johnson)	Ť		
Agent	mary (Mary Mars)	童		
Customer	claude (Claude Green)	Ť		

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

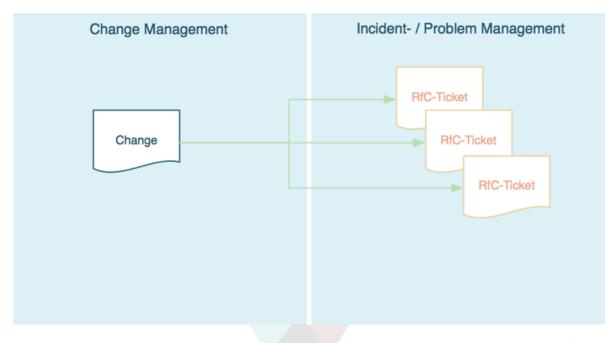
Attribute	Required Field	Details
Change Manager	Yes	Assigns Change Manager privileges to an agent, for the current Change.
Change Builder	Yes	Defines the agent who processes and defines the current Change. When creat- ing a new Change, the cur- rent agent is automatical- ly entered as the Change Builder.
Change Advisory Board	No	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 i.e. 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 i.e., 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 restrict 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:

- Core -> Ticket -> ACL -> Ticket::Acl::Module###200-Ticket::Acl::Module
- Core -> ITSMChange -> ITSMChange::AddChangeLinkTicketTypes
- Core -> ITSMChange -> ITSMChange::RestrictTicketTypes::Groups

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.



Figure 8.9. change-conditions

	* Name	Test Conditions					
	Matching	 Any expression (OR) 	 All expressions (AND) 				
	Validity						
	Comment						
pressions							
BJECT	SEI	ECTOR	ATTRIBUTE	OPERATOR		VALUE	DELE
Change	• 20	120828389400001 -	Category -	is	•	4 high 👻	1
Norkorder	• a	ny 🔹	Workorder State 🔹	is	•	Canceled -	ī
						E Add	new express
ions							
	SEI	ECTOR	ATTRIBUTE	OPERATOR		VALUE	DELE
BJECT		0120828389400001 -	Change State 🔹	set	•	Canceled -	1
Change				set		5 very high 👻	1

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



Change Attribute	Logical Operator
	is not empty
ChangeTitle	begins with
	ends with
	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.

Table 8.5. Conditions available 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



Work Order Attribute	Logical Operator	
	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 i.e. 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 i.e. a manual change is not possible.

Table 8.7. Actions available at the Work Order level

Work Order Attribute	A	tion
WorkOrderState	SE	t
	lo	:k

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.



Figure 8.10. change-move-timeslot

Move Time Slot Change# 201208283894000012 Cancel & close window Time type: Planned Start -New time: 08 - / 20 - / 2012 - 31 - 09 - :00 -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, i.e. 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, e.g. 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, e.g. "4 high", etc.
Priority	Yes	Defines the priority of the Change, e.g. "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, see Sec-

Table 8.8. Attributes of a Work Order



Attribute	Required Field	Details
		tion 5.3, " Change State Ma- chine " [39] .
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

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:

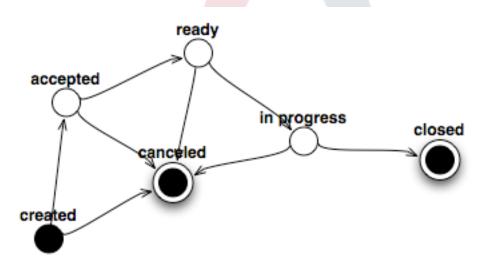
- Approval
- Work Order
- Backout
- Decision
- PIR (Post Implementation Review)

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:

Figure 8.11. change-workorder-state-machine





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

Figure 8.12. change-workorder-state-transition

STATE	NEXT STATE	DELETE
START	Created	
Created	Accepted	Ť
Created	Canceled	Ť
Accepted	Ready	Ť
Accepted	Canceled	Ť
Ready	Canceled	Ť
Ready	In Progress	Ī
In Progress	Canceled	Ť
In Progress	closed	Ť
closed	*END*	Ť
Canceled	*END*	Ť

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

6.4. Defining the Work Order Agent

Each Work Order can be assigned to a "Work Order agent", i.e. 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 "itsm-change" are displayed.

Figure 8.13. change-workorder-agent



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 Report:	B Z U ABC DE LE E E E E E C A P Format • Font • Size • T • • • • • • • • • • • • • • • • •
State:	Created 🗘

Figure 8.14. change-workorder-agent-report

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 "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.



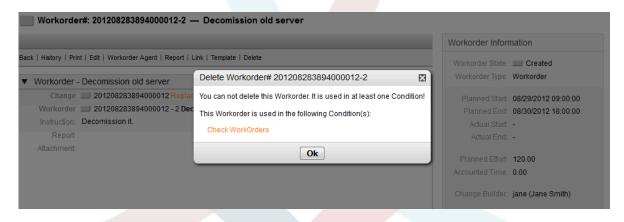
Figure 8.15. change-workorder-template

Template Name:	Provision new server	
Comment	Standard template for provisioning new servers	
Reset States:		
Validity:	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).

Figure 8.16. change-workorder-delete



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.



Figure 8.17. change-zoom

Change#	: 201208283894000	012 — Re	placement of VPN	server in HQ			
						Change Informa	tion
Back History Pr	int Edit Involved Persor	ns Add Work	order Conditions Link	Move Time Slot Templat	e	Change State:	- Request
1 .						Planned Start:	09/20/2012 (
2.						Planned End:	
3 .						Actual Start:	
08/20/2 09:00:0					8/2012 08/30/2012 12:00 18:00:00	Actual End:	-
Change - F	Replacement of VPN	server in H	3			Requested Date:	10/01/2012 1
	The VPN server shoul			me lines here.		Planned Effort:	300.00
Justification:	The current server is	getting too ol	d and slow.			Accounted Time:	0.00
Attachment						riccounted mile.	0.00
, accontrolle						Category:	3 normal
						Impact	3 departmen
						Priority:	4 high
						Change Initiator(s):	jim (Jim Use
						Change Manager:	jack (Jack Br
Linked: Co	nfigItem (Computer)						
						Change Builder:	jane (Jane S
INCIDENT STATE	CONFIGITEM#	NAME	DEPLOYMENT STATE	CREATED	LINKED AS		
	389432000003	S1245	Production	08/28/2012 10:45:5	9 Normal	CAB:	joe (Joe Johr
	389432000004	S4522	Planned	08/28/2012 10:48:0	9 Normal		mary (Mary M

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 "Frontend -> Agent -> View -> ITSMChangeZoom -> ITSMChange::Frontend::AgentITSMChangeZoom###WorkOrderGraph" 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"



Figure 8.18. change-timeline

K HIS	story Print Edi	it Involved Persons	Add Workorder Conditi	ions Link Move Time SI	ot Template	
1						
1.						
2.						
3.						
	08/20/2012 09:00:00	08/22/2012 10:48:00	08/24/2012 12:36:00	08/26/2012 14:24:00	08/28/2012 16:12:00	08/30/20 18:00:
Cha	nge - Replac	ement of VPN ser	ver in HQ			
Des	cription: The	/PN server should b	e replaced by a new or	ne. Add some lines her	9.	
			e replaceu by a new or	ie. Add some intes ner	2. ·	

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.

Figure 8.19. change-overview

All 3	Requested 3 Pending Approva	al 0 Rejected 0	Approved 0 In Pro	gress 0 Pending F	IR 0 Successful 0	Failed 0 Ca	nceled 0 Retracted 0	
								1-3 of 3
STATE	CHANGE#	CHANGE TITLE	CHANGE BUILDER	WORKORDERS	CHANGE STATE	PRIORITY	PLANNED START	PLANNED END
	201208283894000012	Replacement of VPN server in HQ	jane (Jane Smith)	3	Requested	4 high	08/20/2012 09:00:00	08/30/2012 18:00:00
	201208283894000021	Migrate OTRS test environment to 3.2 bet[]	jane (Jane Smith)	0	Requested	2 low		
	201208283894000031	Implement OTRS interface with SAP Soluti[]	jane (Jane Smith)	0	Requested	3 normal		

The columns can be defined via SysConfig "Frontend -> Agent -> View -> ITSM-ChangeOverview -> ITSMChange::Frontend::AgentITSMChange###ShowColumns" with the following available attributes:

Table 8.9. Change Overview

Attribute	Active	Details
ActualStartTime		Date and time at which the Change implementation be- gan



Attribute	Active	Details
ActualEndTime	No	Date and time at which the Change implementation ended
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 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 "Frontend -> Agent -> View -> ITSMChangeOverview -> ITSMChange::Frontend::AgentITSM-Change###Filter::ChangeStates":

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"



Attribute	Details
failed	Displays all changes that have the status "failed"
canceled	Displays all changes that have the status "canceled"
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" i.e. are in the queue for implementation, are displayed. The column titles can be sorted by the following attributes in ascending or descending order:

Figure 8.20. change-schedule

pproved	3							
								1-3 of 3
TATE	CHANGE#	CHANGE TITLE	CHANGE BUILDER	WORKORDERS	CHANGE STATE	PRIORITY	PLANNED START	PLANNED END
	201208283894000012	Replacement of VPN server in HQ	jane (Jane Smith)	3	Approved	4 high	08/20/2012 09:00:00	08/30/2012 18:00:00
•	201208283894000031	Implement OTRS interface with SAP Soluti[]	jane (Jane Smith)	0	Approved	3 normal		
	201208283894000021	Migrate OTRS test environment to 3.2 bet[]	jane (Jane Smith)	0	Approved	2 low		

The displayed attributes can be defined via SysConfig "Frontend -> Agent -> View -> ITSMChangeScheduleOverview -> ITSMChange::Frontend::AgentITSMChangeSched-ule###ShowColumns":

Table 8.11. Change Schedule

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	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



Attribute	Active	Details
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

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.

Figure 8.21. change-pir

	1	1 1					
1 A	ccepted 0 Ready 1 In Prog	ress 0 closed 0 Can	celed 0				
							1-1 of 1
TATE	WORKORDER#	WORKORDER TITLE	CHANGE TITLE	WORKORDER AGENT	WORKORDER STATE	PLANNED START V	PLANNED END
	201208283894000012-4	Post Implementation Review	Replacement of VPN server in HQ		Ready	09/03/2012 09:00:00	09/07/2012 16:00:00

The columns to be displayed can be defined via SysConfig "Frontend -> Agent -> View -> ITSMChangePIROverview -> ITSMChange::Frontend::AgentITSMChangePIR###Show-Columns":

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 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
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.

Figure 8.22. change-template

Overview: Template: All						
Filter						
All (1) Change (0) Workorder (1) CAB (0) 1-1 of 1 S					1-1 of 1 S	
NAME	TYPE	COMMENT	VALIDITY	DELETE	CREATED BY	CREATED
Provision new server	Workorder	Standard template for provisioning new servers	valid	Ť	jane (Jane Smith)	2012-08-28 11:48:32

The columns to be displayed can be defined via SysConfig "Frontend -> Agent - > View -> ITSMChangeTemplateOverview -> ITSMChange::Frontend::AgentITSMTemplateOverview###ShowColumns":

Table 8.13.Template

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



Attribute	Active	Details
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.

After installing the Change Management module, the following template types are available in the system. These can be defined via SysConfig "Frontend -> Agent -> View -> ITSMChangeTemplateOverview -> ITSMChange::Frontend::AgentITSMTemplateOverview###Filter::TemplateTypes":

Table 8.14. Template Types

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

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:



×

Figure 8.23. change-search

Search template:	Create New
Change# (e.g. 10*5155 or 105658*):	Θ
Change State:	Requested Pending Approval Rejected Approved In Progress
Change Manager:	Brown Jack (jack) Johnson Joe (joe) Mars Mary (mary) OTRS Admin (root@localhost) Smith Jane (jane)
Add another attribute:	Change Title 🔹 🛨
Output:	Normal 👻

Run Search

Table 8.15. Template

Added	Detaile
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



Attribute	Details
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 (e.g. from date 1 to date 2) or in relative time values (e.g. 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 (e.g. from date 1 to date 2) or in relative time values (e.g. 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 (e.g. from date 1 to date 2) or in relative time values (e.g. 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 performed using absolute time values (e.g. from date 1 to date 2) or in relative time values (e.g. 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 performed using absolute time values (e.g. from date 1 to date 2) or in relative time values (e.g. 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 (e.g. from date 1 to date 2) or in relative time values (e.g. 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 (e.g. from date 1 to date 2) or in relative time values (e.g. Changes created in the last x days / weeks).

8.6. Change Manager

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



Figure 8.24. change-changemanager

Overvie	Overview: Change Manager: All								
All 2	All 2 Requested 1 Pending Approval 0 Approved 0 In Progress 0 Pending PIR 1							⊳	
									1-2 of 2 S
STATE	CHANGE# V CHA	NGE TITLE CHAI		HANGE MANAGER	WORKORDERS	CHANGE STATE	PRIORITY	PLANNED START	PLANNED END
-	201208283894000021	Migrate OTRS test environment to 3.2 bet[]	jane (Jane Smith)	jane (Jane Smith)	0	Pending PIR	2 low		
	201208283894000049	Enable Cloud Printing	jane (Jane Smith)	jane (Jane Smith)	0	Requested	2 low		

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 "Frontend -> Agent -> View -> ITSMChangeManagerOverview -> ITSMChange::Frontend::AgentITSMChangeManager###ShowColumns":

Table 8.16. Change Manager

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	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 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 "Frontend -> Agent -> View -> ITSMChangeManagerOverview -> ITSMChange::Frontend::AgentITSMChangeManager###Filter::ChangeStates" if desired:

Table 8.17.	Change	Manager	Filter
-------------	--------	---------	--------

Attribute	Details
requested	Displays all changes that have the status "requested"
pending approval	Displays all changes that have the status "pending approval"
approved	Displays all changes that have the status "approved"
in progress	Displays all changes that have the 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.

Figure 8.25. change-mychanges

Overv	Overview: My Changes: All							
All 2	All 2 Requested 1 Pending Approval 0 Approved 0 In Progress 0 Pending PIR 1							
								1-2 of 2 S
STATE	CHANGE#	CHANGE TITLE	CHANGE BUILDER	WORKORDERS	CHANGE STATE	PRIORITY	PLANNED START	PLANNED END
	201208283894000049	Enable Cloud Printing	jane (Jane Smith)	0	Requested	2 low		
	201208283894000021	Migrate OTRS test environment to 3.2 bet[]	jane (Jane Smith)	0	Pending PIR	2 low		

The display can be sorted by the column headings in ascending or descending order. The attributes can be defined via SysConfig "Frontend -> Agent -> View -> ITSMChangeMy-ChangesOverview -> ITSMChange::Frontend::AgentITSMChangeMyChanges###Show-Columns ":

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

Table 8.18. My Changes



Attribute	Active	Details
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 follows. These can be defined via SysConfig "Frontend -> Agent -> View -> ITSMChangeMyChangesOverview -> ITSMChange::Frontend::AgentITSMChange-MyChanges###Filter::ChangeStates":

Table 8.19. My Changes Filter

Attribute	Details
requested	Displays all changes that have the status "requested"
pending approval	Displays all changes that have the status "pending approval"
approved	Displays all changes that have the status "approved"
in progress	Displays all changes that have the 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.

Figure 8.26. change-myworkorders

Overvie	Overview: My Workorders: All						
All 2 C	created 2 Accepted 0 Read	ly 0 In Progress 0					⊳
							1-2 of 2 S
STATE	WORKORDER#	WORKORDER TITLE	CHANGE TITLE	WORKORDER AGENT	WORKORDER STATE	PLANNED START V	PLANNED END
	201208283894000049-1	Provision new server	Enable Cloud Printing	jane (Jane Smith)	Created	08/28/2012 13:29:00	08/29/2012 21:29:00
-	201208283894000021-1	Check Chef script	Migrate OTRS test environment to 3.2 bet[]	jane (Jane Smith)	Created	08/28/2012 13:30:00	08/28/2012 14:30:00

The displayed information can be sorted by column headings in ascending or descending order. The attributes used can be defined via SysConfig "Frontend -> Agent -> View -



> ITSMChangeMyWorkOrdersOverview -> ITSMChange::Frontend::AgentITSMChangeMy-WorkOrders###ShowColumns":

Table 8.20. My Work Orders

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	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
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 follows. These can be defined via SysConfig "Frontend -> Agent -> View -> ITSMChangeMyWorkOrdersOverview -> ITSMChange::Frontend::AgentITSMChangeMy-WorkOrders###Filter::WorkOrderStates":



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

Table 8.21. My Work Orders Filter

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 (e.g. Changes within the last x days) or absolute time period (e.g. Changes from date 1 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 (e.g. Changes within the last x days) or absolute time period (e.g. Changes from date 1 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 (e.g. Changes within the last x days) or absolute time period (e.g. Changes from date 1 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 (e.g. Changes within the last x days) or absolute time period (e.g. Changes from date 1 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 (e.g. Changes within the last x days) or absolute time period (e.g. Changes from date 1 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 (e.g. Changes within the last x days) or absolute time period (e.g. Changes from date 1 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

Please note that the we are planning to introduce the release management process with a future OTRS::ITSM version. Basic information, however, can be configured, captured and controlled as of version 1.0.

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



Chapter 10. Service Level Management

The introduction of OTRS version 2.1 marked a complete revision of the internal statistics framework by allowing the creation of nearly every imaginable ticket-based report via the web interface, as well as the export or import thereof. In addition to that, by making use of OTRS existing access control features, administrators were allowed to restrict the generation and display of statistics and charts to specific users, groups and/or roles. During the development, special care was given to ensure cross-version compatibility, meaning that statistics modules generated by previous OTRS versions could continue to be used. When used in combination with OTRS::ITSM, additional statistics relevant to ITSM become available with the installation of the ITSMServiceLevelManagement package.

Example of a report overview:

Figure 10.1. agent-ticket-stats

Overview: Stats

Actions	List			
E Add	STAT#▲	TITLE	OBJECT	DESCRIPTION
Import	10001	List of tickets closed last month	Ticketlist	List of all tickets closed last month. Order by ag[]
	10002	New Tickets	TicketAccumulation	Total number of new tickets per day and queue whic[]
	10003	List of open tickets, sorted by time left until response deadline expires	Ticketlist	List of open tickets, sorted by time left until re[]
	10004	List of tickets closed, sorted by response time.	Ticketlist	List of tickets closed last month, sorted by respo[]
	10005	List of tickets created last month	Ticketlist	List of all tickets created last month. Order by a[]
	10006	List of the most time-consuming tickets	Ticketlist	List of tickets closed last month which required t[]
	10007	List of open tickets, sorted by time left until escalation deadline expires	Ticketlist	List of open tickets, sorted by time left until es[]
	10008	List of tickets closed, sorted by solution time	Ticketlist	List of tickets closed last month, sorted by solut[]
	10009	Overview about all tickets in the system	TicketAccumulation	Current state of all tickets in the system without[]
	10010	List of open tickets, sorted by time left until solution deadline expires	Ticketlist	List of open tickets, sorted by time left until so[]
	10011	Changes of status in a monthly overview	StateAction	Monthly overview, which reports status changes per[]
	10012	Total number of all tickets ever created per Ticket-Type and Priority.	TicketAccumulation	Total number of all tickets ever created per Ticke[]

XML export of report settings:



Figure 10.2. agent-stats-export-import

Actions	Stat Details			
Go to overview		Stat#:	10002	
		Title:	New Tickets	
Edit		Object:	TicketAccumulation	
Delete		Description:	Total number of new ti during the last month.	ckets per day and queue which have been created
		Format	Opening New_Tickets	_2012-08-30_10-05.xml
Export config		Sum rows:	You have chosen to	open
		Sum columns:		2012-08-30_10-05.xml
1.0-4		Cache:		IL Document (692 bytes)
Hint		Validity:		o1298.vo.otrs.com
With the input and select fields you can		Exchange Axis:	What should Firefo	
influence the format and contents of the statistic. Exactly what fields and formats you		Created:		
can influence is defined by the statistic		Created by:	Open with	Internet Explorer (default)
administrator.		Changed:	Save File	
		Changed by:	Do this <u>a</u> uto	matically for files like this from now on.
	X-axis			
		Create Time:		
				OK Cancel
	Value Series			
		Queue:	Hine	
		Queue:	Postmaster Service Desk	

Dialog-based creation of a new report template:

Figure 10.3. agent-stats-template

Edit: Stat# 10002

Step 1 General Specifications	Step 2 Select the element that will be used at the X-axis	Step 3 Select the elements for the value series	Step 4 Select the restrictions to characterize the stat
Actions	General Specifications (1/4)		
Go to overview	★ Title: ★ Description:	New Hereis	
		day and queue which have been created during the last month.	
	* Dynamic-Object	TicketAccumulation	
	★ Permissions:	itsm-change-manager itsm-configitem itsm-service stats ▼	
	* Result format	You can select one or more groups to del CSV Print graph-area graph-bars graph-bars	fine access for different agents.

A PDF generator is incorporated as well, which enables you to export the print view of your previously generated tickets, stats and search results in PDF format:



Stat#10002

Figure 10.4. pdf-doc-view

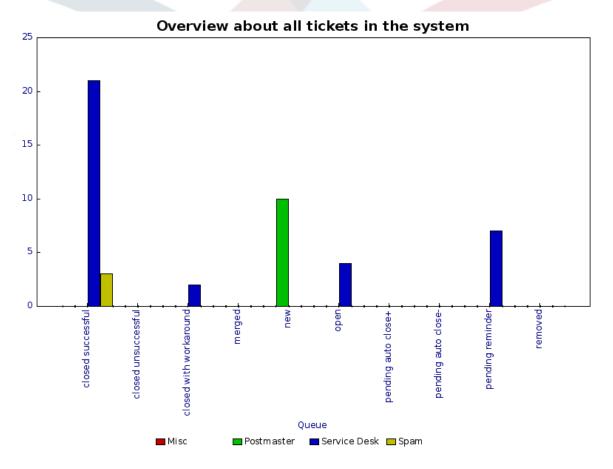
New T	ick	ets	20	12-(07-	01	00:	:00:	00-	201	2-0	7-3	12	3:5	9:59	9						pri	inted b	y Jan	e Smit	h (jan	e@ot	rs.co	m) 08/	30/20	12 10	:21:0
Queue	Sun	1 Mon 2	2 Tue 3	Wed 4	Thu !	5 Fri (5 Sat 7	7 Sun 8		Tue 10		Thu 12		Sat 14		Mon 16		Wed 18	Thu 19	Fri 20	Sat 21	Sun 22			Wed 25	Thu 26				Mon 30		Sum
Misc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Postmaster	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Service Desk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Figure 10.5. pdf-doc-overview

→ ОТР Overvie	S Copen Technology Real Services	tickets in th	e svstem					printed by Jane S	mith (jane@otrs.c		#1000
Queue	closed successful	closed unsuccessful	closed with workeround	merged	new	open	pending auto close+	pending auto close-	pending reminder	removed	Sum
Misc	0	0	0	0	0	0	0	0	0	0	0
Postmaster	0	0	0	0	42	0	0	0	0	0	42
Service Desk	1	0	0	0	0	4	0	0	0	0	5
Spam	0	0	0	0	0	0	0	0	0	0	0
Sum	1	0	0	0	42	4	0	0	0	0	47

Example of a graphical ticket overview:

Figure 10.6. ticket-graphic-overview





Chapter 11. The admin area of OTRS::ITSM

The admin area is the central interface for the administrator of the ticket system. All important settings of the system configuration can be checked and/or changed here, and the system can be customized to suit 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 that have been granted administrator privileges. After the completion of a default installation you can log on to the system as OTRS admin using the user name "root@localhost" and the password generated in the last step of the installation.

- 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]



Figure 11.1. Admin Area

	³ ²										You are	logged in as Jane Smith 🕐
DASHBOARD T	ICKETS	SERVICES	CMD	B	CHANGES	STAT	ISTICS	CUSTOMER	RS AD	omin c	۲,	
Admin												
Agent Managemen	it			Custo	omer Managen	nent			Email S	Settings		
Agents Create and manage agents.	Group Creat group	e and manage		Custo Create custor	e and manage	C	ustomer Co Create and m ompanies.		Accoun Manage	ster Mail ts POP3 or IMAF is to fetch ema	Fi	ostMaster Filters Iter incoming emails.
Agents <-> Groups Link agents to groups		e and manage ro	les.		mers <-> Group ustomers to s.	L	ustomers < ink custome ervices.	-> Services ers to	from. Email A	ddresses der email	s	MIME Certificates
Agents <-> Roles Link agents to roles.		<-> Groups oles to groups.								ses for this	C	ertificates for email ncryption.
										ys PGP keys for ncryption.		
Queue Settings				Ticke	t Settings				System	n Administrat	ion	
Queues Create and manage queues.	Creat	onses e and manage nse templates.		Manag	Notifications ge notifications t ent to agents.	hat C	otifications create and m vent based	· ·	Generic Manage	Agent periodic task	s. S	dmin Notification end notifications to sers.
Responses <-> Queu Link responses to queues.	Creat respo	Responses e and manage nses that are natically sent.		Create	al Catalog e and manage th al Catalog.	ne C d	onfig Items Create and m efinitions for Configuration	nanage the	Change	tion (ITSM Management of notification	i) P	riticality <> Impact <> riority anage priority matrix.
Auto Responses <-> Queues Link queues to auto	Creat	hments e and manage ments.		Types Create ticket	e and manage	C	i <mark>tates</mark> Create and m cket states.	nanage	Priority	ry <-> Impact	A	tate Machine dmin of the state achine.

1. The general catalog

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

Figure 11.2. Admin General Catalog

A ² A ² A ² Tickets	SERVICES	CMDB	CHANGES	STATISTICS	CUSTOMERS	ADMIN	You	u are logged in as <mark>Jane Smith</mark>
General Catalog Manage	ment							
Actions		List						
-	•	CATALOG CL	ASS					
		ITSM::Chan	geManagement:	:Category				
Add Catalog Item		ITSM::Chan	geManagement:	:Change::State				
		ITSM::Chan	geManagement:	:Impact				
Add Catalog Class		ITSM::Chan	geManagement:	:Priority				
		ITSM::Chan	geManagement:	:WorkOrder::State				
		ITSM::Chan	geManagement:	:WorkOrder::Type				
		ITSM::Confi	gltem::Class					
			gltem::Computer					
			gltem::Deployme					
			gltem::Hardware					
			gltem::Location::					
			gltem::Network::					
			gltem::Software::					
			gltem::Software::	Туре				
			gltem::YesNo					
		ITSM::Core: ITSM::Core:						
			IncidentState					
		ITSM::Core.						
		ITSM::SLA::						

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



Figure 11.3. Admin General Catalog

A 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SERVICES	CMDB	CHANGES	STATISTICS	CUSTOMERS	ADMIN		
General Catalog Manage	ement							
Actions		List						
TSM::Configitem::Computer::	Type 🔻	ITSM::CONFI	GITEM::COMPUTER:	:TYPE			VALID	
	Type 1	Desktop					valid	
Add Catalog Item		Laptop					valid	
		Other					valid	
Add Catalog Class		PDA					valid	
		Phone					valid	
Go to overview		Server	valid					

2. Configuring configuration item classes

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

• [Computer]

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

• [Hardware]

All hardware components not classified as computers, possibly ranging from a "blade center" chassis to printers and USB sticks, depending on the level of granularity of your Cl structure.

• [Network]

Logical networks (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.



Figure 11.4. Admin General Catalog

▲ ² ▲ ² ▲ ² ★ ³ ▲ ² DASHBOARD TICKETS SERVICES	CMDB CHANGES STATISTICS CUSTOMERS ADMIN Q	You are logged in as Jane Smith ()
General Catalog Management		
Actions	List	
ITSM::ConfigItem::Class	ITSM::CONFIGITEM::CLASS	VALID
🔁 Add Catalog Item	Computer Hardware	valid valid
H Add Catalog Class	Location	valid
Go to overview	Network Software	valid valid

Warning

The design of a CMDB data model and of the associated CIs 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 to be of value to resort to external assistance, e.g. of ITIL practice experts for the CMDB design.

Multiple input field types can be used when defining a class. These input field types are used to generate the edit form for creating new or editing already existing configuration items.

Warning

Since version 6.0.18 the configuration item class definitions have to be written in YAML format.

The following block is an example of a form field called *Operating System*.

```
    Key: OperatingSystem
    Name: Operating System
    Input:
    Type: Text
    Size: 50
    MaxLength: 100
```

The following settings are available when adding or editing this resource. The fields marked with an asterisk are mandatory.

Key *

Must be unique and only accept alphabetic and numeric characters. If this is changed, data will not be readable from old definitions.

Name *

The label of the field in the form. Any type of characters can be entered to this field including uppercase letters and spaces.

Note

It is recommended to always use English words for names.



Names can be translated into other languages with custom translation files. See the Custom Translation File chapter in the developer manual.

Searchable

Defines whether the field is searchable or not. Possible values are 0 or 1.

Input *

Initiates the definition of the input field. An input field can contain the following attributes:

Type *

Defines the type of the element. Must be placed indented as a logical block. Possible values are:

- Text: A single text field.
- TextArea: A text field with multiple rows.
- GeneralCatalog: A drop-down list for select a general catalog class. The general catalog class must be defined before use it as input type. The items of the general catalog class will be the options of the drop-down list.
- CustomerCompany: A drop-down list for select a customer from the database back end.
- Customer: A drop-down list for select a customer user from the database back end. The field can be used with wildcards (*).
- Date: A field for select a date.
- DateTime: A field for select date and time.
- Integer: A drop-down list with integer numbers.

Required

Defines whether the field is mandatory or not. Possible values are 0 or 1.

Size

Defines the size of the text field. The value must be a positive integer.

MaxLength

Defines the maximum amount of characters that can be entered in the text field. The value must be a positive integer.

RegEx

A regular expression to restrict the possible values of the text field.

RegExErrorMessage

The displayed error message if the input does not match to definition given in the regular expression.

Class

The name of the class to be used for the drop-down list. Required for type GeneralCatalog.



Translation

Defines whether the items of a general catalog have to be translated. Possible values are: 0 or 1.

YearPeriodPast

Defines how many years in the past are available for selection from the present year in a date or date/time field. The value must be a positive integer.

YearPeriodFuture

Defines how many years in the future are available for selection from the present year in a date or date/time field. The value must be a positive integer.

ValueMin

Defines the minimum value for an integer field.

ValueMax

Defines the maximum value for an integer field.

ValueDefault

Defines the default value for an integer field.

CountMin

Defines at least how many of the current input types are available. The value must be a positive integer.

CountMax

Defines at most how many of the current input types are available. The value must be a positive integer.

CountDefault

Defines how many field should be displayed by default. The value must be a positive integer.

Sub

Defines a sub-element in the input field. The sub-element can contain its own input fields. It is useful if you have certain properties under a main property.

SuppressVersionAdd

This can be used to suppress creating a new version of a configuration item, when an attribute has changed. Possible values are UpdateLastVersion and Ignore.

- UpdateLastVersion: If this value is set and there is no other updated attribute, the attribute is updated in the current version without creating a new version.
- Ignore: If this value is set and there is no other updated attribute, nothing will be done, and no new version is created.

The following class definition is an example for all possible options.

```
    Key: OperatingSystem
Name: Operating System
Searchable: 1
Input:
Type: Text
Required: 1
```



Size: 50 MaxLength: 100 RegEx: Linux|MacOS|Windows|Other RegExErrorMessage: The operating system is unknown. CountMin: 0 CountMax: 5 CountDefault: 1 Key: Description Name: Description Searchable: 0 Input: Type: TextArea Required: 0 CountMin: 0 CountMax: 1 CountDefault: 0 Key: Type Name: Type Searchable: 1 Input: Type: GeneralCatalog Class: ITSM::ConfigItem::Software::Type Required: 1 Translation: 1 Key: CustomerCompany Name: Customer Company Searchable: 1 Input: Type: CustomerCompany Key: Owner Name: Owner Searchable: 1 Input: Type: Customer Key: LicenseKey Name: License Key Searchable: 1 Input: Type: Text Size: 50 MaxLength: 50 Required: 1 CountMin: 0 CountMax: 100 CountDefault: 0 Sub: - Key: Quantity Name: Quantity Input: Type: Integer ValueMin: 1 ValueMax: 1000 ValueDefault: 1 Required: 1 CountMin: 0 CountMax: 1 CountDefault: 0 - Key: ExpirationDate Name: Expiration Date Input: Type: Date Required: 1 YearPeriodPast: 20 YearPeriodFuture: 10 CountMin: 0 CountMax: 1



CountDefault: 0 Key: LastUsed Name: Last Used Input: Type: DateTime Required: 1 CountMin: 0 CountMax: 1 CountDefault: 0 SuppressVersionAdd: UpdateLastVersion

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

Figure 11.5. admin-configitem-management-change

Config Item Management	ES CMDB CHANGES STATISTICS CUSTOMERS ADMIN
actions	Change:
Computer 👻	Config Item Class: Computer Definition:
Go to overview	<pre>{ Key => 'Vendor', Name => 'Vendor', Searchable => 1, Input => { Type => 'Text', Size => 50, MaxLength => 50, }, }, { Key => 'Model', Name => 'Model', Searchable => 1, Input => { Type => 'Text', Size => 50, MaxLength => 50, }, { Key => 'Description', Name => 'Description', Searchable => 1, Input => { Type => 'TextArea', }, { Key => 'TextArea', }, }, {</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.



Figure 11.6. admin-configitem-management

CMDB CHANGES	STATISTICS CUSTOM	ERS A	DMIN Q	
List				
CONFIG ITEM CLASS		VERSION	CREATED BY root@localhost (Admin OTRS)	CREATED 08/27/2012 10:50:47
	List	List CONFIG ITEM CLASS	List CONFIG ITEM CLASS VERSION	List CONFIG ITEM CLASS VERSION CREATED BY root@localhost (Admin

4. Adjustment of ticket state

In ITIL aligned incident management, incidents are either resolved successfully or closed with a workaround. To address the latter closure category, OTRS::ITSM by default includes the ticket state "closed with workaround".

Figure 11.7. admin-state-management

DASHBOARD TICKETS SERVICES	CMDB CHANG	ES STATISTIC	S CUSTOMERS	ADMIN	Q	
State Management						
Actions	List					
+ Add state	NAME	TYPE	COMMENT	VALIDITY	CHANGED	CREATED
	closed successful	closed	Ticket is closed suc[]	valid	08/23/2012 14:26	08/23/2012 14:26
Hint	closed unsuccessful	closed	Ticket is closed uns[]	valid	08/23/2012 14:26	08/23/2012 14:26
Attention: Please also update the states in SysConfig where needed.	closed with workaround	closed	ticket is closed wit[]	valid	08/27/2012 10:49	08/27/2012 10:49
See also: http://doc.otrs.org	merged	merged	State for merged tic[]	valid	08/23/2012 14:26	08/23/2012 14:26
	new	new	New ticket created b[]	valid	08/23/2012 14:26	08/23/2012 14:26
	open	open	Open tickets.	valid	08/23/2012 14:26	08/23/2012 14:26
	pending auto close+	pending auto	Ticket is pending fo[]	valid	08/23/2012 14:26	08/23/2012 14:26
	pending auto close-	pending auto	Ticket is pending fo[]	valid	08/23/2012 14:26	08/23/2012 14:26
	pending reminder	pending reminder	Ticket is pending fo[]	valid	08/23/2012 14:26	08/23/2012 14:26
	removed	removed	Customer removed tic[]	valid	08/23/2012 14:26	08/23/2012 14:26

With OTRS::ITSM you can change existing ticket states or add new ones. There are two important options: the name of the state "state-name" and the type of its "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 made to the "new" state require changes to be made 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 made 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.



Figure 11.8. admin-priority-allocation

DASHBOARD TICKETS SERVIC	CMDB CHANG	GES STATIS	TICS CUSTON	IERS ADMIN	Q	
Criticality <-> Impact <-> Priority						
Note	Priority allocation					
Manage the priority result of combinating	IMPACT \ CRITICALITY	1 VERY LOW	2 LOW	3 NORMAL	4 HIGH	5 VERY HIGH
Criticality <-> Impact.	1 very low	1 very lov 🔻	1 very lov 🔻	2 low 🔻	2 low 🔻	3 normal 👻
	2 low	1 very lov 🔻	2 low 🔻	2 low 🔻	3 normal 👻	4 high 🔻
	3 normal	2 low 👻	2 low 👻	3 normal 👻	4 high 👻	4 high 👻
	4 high	2 low 🔻	3 normal 👻	4 high 👻	4 high 👻	5 very hiç 🔻
	5 very high	3 normal 👻	4 high 👻	4 high 👻	5 very hiç 👻	5 very hiç 🔻

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

Figure 11.9. admin-general-catalog-management-priority

A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2	SERVICES	CMDB	CHANGES	STATISTICS	CUSTOMERS	ADMIN	You	are logged in as Jane Smith
General Catalog Manage	ement							
Actions		List						
ITSM::Core::Criticality	-	ITSM::CORE:	CRITICALITY					VALID
	•	1 very low						valid
Add Catalog Item Add Catalog Class		2 low		valid				
		3 normal		valid				
		4 high		valid				
		5 very high						valid

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.

Figure 11.10. admin-priority-management

$\overset{2}{\clubsuit}^{2}\overset{2}{\bigstar}^{2}\overset{2}{\bigstar}^{3}\overset{2}{\clubsuit}^{2}$							You are logged in as Jane S	
BOARD TICKETS	SERVICES	CMDB	CHANGES	STATISTICS	CUSTOMERS	ADMIN	٩	
rity Management								
ns		List						
dd priority		NAME	VAI	LIDITY	CHANGED		CREATED	
		1 very low	vali	d	08/23/2012 14:26		08/23/2012 14:26	
		2 low	vali	d	08/23/2012 14:26		08/23/2012 14:26	
		3 normal	vali	d	08/23/2012 14:26		08/23/2012 14:26	
		4 high	vali	d	08/23/2012 14:26		08/23/2012 14:26	
		5 very high	vali		08/23/2012 14:26		08/23/2012 14:26	



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 a default OTRS installation 9 calendars are available, which can be configured graphically. Using the SysConfig framework found in the admin interface, this number can be increased to 99, by using the calendar 1 etc. links:

Figure 12.1. admin-sys-config

	³ ²							/ou are logged in as Jane Smitl
DASHBOARD		/ICES C	MDB	CHANGES	STATISTICS	CUSTOMERS		
SysConfig								
Actions		Res	ult					
	Search	SU	BGROUP				ELEMENTS	GROUP
Navigate by searching i	in 2269 settings	C	re				28	Framework
, see ay a start straining t		Co	ore::LinkO	bject		32	Framework	
Framework (432)		- Co	ore::Log				6	Framework
Navigate by selecting c	onfig groups	C	ore::MIME-	-Viewer		4	Framework	
	C	ore::Mirror	DB		3	Framework		
🛓 Export settings	C	ore::PDF			12	Framework		
	C	ore::Packa	age		7	Framework		
1 Import settings		Co	ore::Perfo	rmanceLog		3	Framework	
		C	ore::Refer	enceData		1	Framework	
		Co	re::SOAP				2	Framework
		C	ore::Send	mail			9	Framework
		Co	re::Sessi	ion			16	Framework
		Co	ore::Spell(Checker			4	Framework
		Co	ore::Stats				11	Framework
		Co	ore::Stats:	Graph			17	Framework
		Co	ore::Time				10	Framework
		Co	ore::Time:	:Calendar1			5	Framework
		Co	ore::Time:	:Calendar2			5	Framework
		Co	ore::Time:	:Calendar3			5	Framework
		Co	ore::Time:	:Calendar4			5	Framework
		Co	ore::Time:	:Calendar5			5	Framework
		Co	ore::Time:	:Calendar6			5	Framework
		Co	ore::Time:	:Calendar7			5	Framework

"TimeWorkingHours" can be used in OTRS::ITSM to define so-called "service level windows" time frames in which your organization guarantees certain service levels to your customers. If required, these can then be monitored and/or evaluated to ensure compliance with any possible Service Level Agreements.



A ² A ² C ²		SERVICES	СМДВ	CHANGES	STATIST	105 0	USTOME	RS ADMI	N		ed in as Jane Smith 🕐	
DASINGCARD	TICKETO	SERVICES		CHANGES			0010mL			`		
SysConfig												
Actions			Edit Config Settings in Framework -> Core::Time::Calendar1									
Go to overview]		TimeZone::Calendar1Name									
						ess Hours ie: Calendar N	lame 1					
			Defines the indicated ca									
			Defines the indicated ca	ne::Calendar1 time zone of the lendar, which can d later to a specific	Default valu	ie: + 0						
			✓ TimeVa	cationDays::Ca	lendar1							
						Day – Text						
					1 1	New Yea		Θ				
					5 1		onal Work	-				
					12 24	Christma		Θ				
					12 25	First Chr	ristmas D	Θ				

Figure 12.2. admin-sysconfig-timeworkinghours



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

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





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Version 1.1, March 2000

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