

ZENworks Service Desk 24.2 Administration Guide

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1.1 Welcome

Thank you for choosing our service management solution. Your decision guarantees your service organization's ability to deliver a comprehensive customer support service that meets, and even exceeds, your customer expectations.

Easy to configure and customize, our service management solution has been developed to offer the very best experience to users via the Web. This all-in-one support solution enables service issues to be readily created, managed, monitored and solved, with minimal impact to your customer's organization, allowing them to focus on their core business.

Your customers have access to a user-friendly portal that offers an easy-to-use Knowledge Base and request tracking system. Your technicians are provided with the tools that allow them to offer effective and efficient service. Supervisors have access to comprehensive management and reporting of the service desk, its technicians and all support issues.

For assistance with set-up and configuration of the application, access the Configuration Steps section of this guide. The configuration process requires the User to switch between the Administrator Role and Supervisor Role, so in the first instance it is advisable that the person customizing the application have both User Roles and this can be set for their account within the User tab of the Administrator screen.

The User Guides have sections relevant to the various User Roles within the application, including:

- Administrator
- Supervisor
- Technician
- Partner
- Finance User
- Manager
- Customer

To start using this User Guide, click on the User Guide link within the Contents tab. Or, to use the step-by-step guide to assist with the application set-up, see Configuration Steps.

Use single clicks within the guide to open topic information.

1.2 Online Help

To assist Users when using the system, online help is available throughout the application.

To access information relevant to an opened screen, click the Help button located in the top right corner of the screen, next to the Logout button.



A Help Page is displayed containing information related to the application page that is open. Navigate through the help information as necessary, or click Show to view the entire User Guide.

1.3 Configuration Steps

These configuration steps are recommended as a guide to assist with customizing the application to suit the service environment. These steps are what is required at a minimum to enable your system. It should be noted that these steps require access to the Administrator and Supervisor views.

The following procedure covers editing the logged in User account details and ensuring this User has all the relevant privileges to achieve what is required to configure the system. It then details the steps to enable the system to work with email, setting the privileges for how Customers and Technicians can interact with the system, and how requests and the system will behave. This is defined within the Setup>Privileges tabs.

The User then has the option to customize the look and feel of the system, although this can be done later, if preferred. The next step is to create Customers and Users in the system.

Moving to the Supervisor Role, the User then configures the day-to-day elements within the application, which are part of creating and managing requests. This includes setting the time frames for managing requests and defining trigger points for escalations by configuring SLAs; detailing the steps a request will move through, by customizing Workflows, which includes setting the stages of the Workflow where timers will trigger automatic warnings and escalations; defining the Team(s) of Technicians who will be associated with the customized Workflows and SLAs.

With the basic elements in the system now in place, the User then moves to the Configuration tab to customize the Configuration Management Database (CMDB). This part is often considered the most complex part of configuring the system, as this is where the service environment, including physical and service Items, is mapped into the system with associated relationships. When designing the CMDB, first the templates for all the different Item Categories are created. These are refined as Item Type templates, with these two templates used to define the information recorded against each Item and classification of issues that can be associated with each Item when requests are logged by Customers.

After the CMDB structure is defined, Items are imported via AMIE or.csv file. This is when the Items are associated with Customers or Organizational Units, who can log requests against the assigned Items.

In the Administrator (Setup) view:

1. Customize the default Supervisor access

Include Incident, Service Level Management and if applicable, Request Fulfillment, Problem and Change Management. Adjust the User Timezone, if applicable.

2. Configure Email Setup and Email Messages(See:Setup>Email)

This step allows the system to manage requests via email. After completing the information in the Server and Setup tabs, the content for automated emails sent by this system can be customized. This does not have to be all done at this point, however, it is suggested that within the last page of the Templates tab, the Signature be updated to reflect the service organization name.

3. Enable System Privileges(Setup>Privileges)

At this stage, it is suggested that each option be reviewed in the User, Customer, Request and System tabs within the Privileges sub-menu option. Although it should be noted, these can be adjusted in the future. If you are unsure about what an option refers to, select the Help button on the system UI, to display the relevant page of the User Guide. Be sure to set the appropriate

Time Zone within the Customers Privilege tab, as this needs to be set before importing Customers and Users via an authentication server to ensure it is set correctly on all newly created accounts.

4. Customize Banners and Welcome Page Message(Setup>Customize)

This can be done now if the images are available. Alternatively, return to this step at a later stage.

5. Create Customers and Users, which include Supervisor, Technician and Partner accounts

Note, to associate Organizational Unit information with Customers or Users, this can be configured at this point within the Supervisor>User>Organizational Unit tab. Should the import include the name of the Org Unit that matches what is recorded in the system, the details from the information recorded internally will be applied to the Customer or User.

If using an authentication server, move to the Setup>Authentication tab.(See:Setup>Authentication;Active Directory Integration or LDAP Integration)

If creating accounts directly in the system (i.e., using internal authentication), go to the User tab. (See:Customers and Users.)

6. Set up Service Level Agreements (See:Service Level Management)

Move to the Supervisor view by clicking the User link, next to the logged in User Name.

If these are unknown at this time, the system includes a default SLA that can be used.

 If applicable, create Operational Level Agreements and/or Underpinning Contracts (See: OLAs or UCs)

This is more than likely an advanced system configuration step at this point, or may not be relevant to the service organization. However, if OLAs or UCs are in place in the service organization, they can be mapped into the system now. Alternatively, they may be added later.

8. Customize or create Workflows (See: Incident & Problem Workflows and Service Request & Change Workflows)

The system includes default Workflows across all Processes. At this point, the default Workflows may be sufficient, or they can be customized to suit the service organization requirements. Alternatively, new Workflows can be created from scratch.

9. Create Teams(See:Teams)

By default the system includes one Process Team and the Unknown Team. Edit the existing Process Team, including defining the way it works, assigning the relevant Technicians, associating the Workflows that the Team will support, and setting the Technicians to work in the appropriate Escalation Layer(s). Teams are to be created for all Processes that are to be managed by the system (i.e., Incident, Problem, Change, Service Request.), although it may be relevant to finish one Process first, and return to do the other Processes at a later date.

10. Assign Default Teams and SLAs within Request Privileges (See:Setup>Privileges>Requests)

Move to Adminstrator view by clicking the Setup link, next to the logged in User Name

These settings will be applied to all newly created Items and Item Types that result from an AMIE import.

11. Configure the CMDB, by first customizing Configuration Categories:

Return to the *Supervisor view* by clicking the User link, next to the logged in User Name.

The system includes a number of default Categories, which should be more than enough for most organizations. Within the Category, the attributes of an Item that are to be recorded in the system, are defined by customizing the field labels. The stages that an Item can move through in its lifecycle are defined within the Life Cycle tab (i.e., Installed>Pending Configuration>Pending Test,etc). The types of issues reported against an Item are then created in the Classifications tab.

Configure the Category Details Fields (See:Configuration Categories)

Define the Category's Life Cycle (See:Category Life Cycle)

Create Category Classifications (See:Category Classifications)

12. Create Service Type templates and Service Items

For service organizations wanting to fast-track the capability to manage requests in the system, it is advised to create Service Items in the Service Catalog to allow Customers and Technicians to log and manage requests within the application. Create a Type using the Service Category for each Service being offered, then create the Service Item with the newly created Type template. For the Service to be available in the Catalog, be sure the Service Item status is set to an Active, non Pre-production State. If the Customers are to access a Service on the Customer Portal, the Service Item Lifecycle State should also be set to Customer Visible.

13. Create Item Types (See: Item Types)

If the Types are not to be automatically created as part of an AMIE or .csv import, this is done in the Configuration>Types tab. This is where the Category template is associated with the Type template, the default Teams and SLA are set, and the Classifications for issues reported against Items are refined.

If Items are to be imported via a .csv file or AMIE proceed to Step 14.

14. Within the *Admin>Setup tab*, complete the Item Import (See:AMIE Import or CSV Import).

After the Items are successfully imported, a Supervisor User will need to refine the Type templates created as part of the import, if the default settings do not apply to a newly created Item Type. This task does not need to be completed immediately, and can be done on an ad hoc basis (i.e., whenever a Type template is opened in Edit mode, before saving, the system will prompt the User to set any required information.)

15. Within the Supervisor>Configuration tab, create Items.(See:Items)

If Items are to be created directly within the system, this is completed in the Configuration>Items tab. An Item Type template is selected for the new Item, which applies all the default information set within the Categories and Types tabs, then ownership of the Item is assigned to the new Item. Ownership can be Everyone (i.e., a Global Item), one or more specific Customers or Organizational Units. The specific attributes of the Item are recorded in the Details tab, and any relationships with other Items in the system can be created within the Relationships tab, now or at some point in the future.

Items can be mapped to Services, if required.(See:Service Catalog.)

1.3.1 Implementing the Processes

For information and steps for implementing for the following Processes, refer to:

- Request Fulfillment
- Incident Management
- Problem Management

- Change Management
- Release & Deployment Management

1.4 Users

Users within the service management system that are assigned to support Teams must be allocated one of the following Roles:

- Technician
- Supervisor
- Partner.

The above User Roles can work on requests, relevant to the Processes they have been allocated (i.e., Incident, Problem, Change or Service Requests). The About Roles section of the User Guide provides more information regarding specific User Roles in the system.

1.4.1 User Availability

The User List View includes the User Availability status by default, this is based on work hours configured in the Schedule tab of the User and their Vacation Status.

The following icons may be displayed in the List View:

Available	
•	The User is not on leave and is available for request assignment based on their assigned work hours.
	The User is not on leave but is not available for request assignment based on their assigned work hours.
	Or, if no hours are set within the Schedule tab when the "Define Works Hours" is enabled within Admin>Setup>Privileges>User screen and the User is not on vacation, the system will consider Users to be unavailable.
	The User is On Vacation. If the User logs into the system when assigned this status, they will not have to the User Portal. However, if they are also have Customer Web Access, when they log in to the system they default to the Customer Portal.

1.4.2 Creating a User Account

When creating a new User, the following tabs are available:

- Information
- Aliases
- Team

- Skills
- Types

1.4.3 Information Tab

Within the User Information tab, User details can be created, viewed and edited. User Roles, Process assignment and default Login credentials can all be customized within this tab.

NOTE: If Custom Fields are to be created for User Information, it is recommended that the Administrator complete the customization prior to creating Users.

To create a new User:

- 1. Select User>Users
- 2. Click New

The User Information screen appears.

3. _____

User Information Fields			
Title	Select a title from the drop-down menu options. (This field is displayed if the Enable Titles option is set to Yes in the Admin>Setup>Setup>Privileges>Customer tab.)		
First Name*	Enter the User's First Name.		
Last Name*	Enter the User's Last Name.		
User Name*	Enter a User Name (unique).		
Password*	Enter a User Password. Note: Passwords can be changed under the Users Tab or reset by the User under their My Account tab.		
Roles*	Assign a Role for the User. Each Role has associated permissions. See Roles.		
	Every Technician Role assigned also needs a Supervisor assigned.		
	NOTE: Note: More than one Role can be assigned but only one of Supervisor, Partner or Technician can be allocated per User.		
Default Portal*	The Default Portal is the User Interface accessed by default when a User with multiple Roles logs into the system.		
	NOTE: If the Users Default Portal is set to Customer, the User details will not be accessible in the Users list, but included in the list within the User>Customer tab.		

User Information Fields

Assignment Template	This option is visible in a new User Information screen if Job Assignment Templates are configured in the User> Assignments tab.
	Select a template to assign the new User to multiple Teams, Escalation layers and Processes.
Operations Processes	Assign the licensed access for Request Fulfilment, Incident and Problem Management.
	Assigning Processes to the User gives them access to support those Processes and enables them to be assigned as Team members for those Processes' Teams.
	See User Processes.
Change Processes	Assign the licensed access for Change, Release and Deployment Management. Note, Users assigned Release are automatically assigned Deployment.
Internal Processes	Enable the Users privilege to maintain Service Level, Configuration and Knowledge Management.
	Selecting the Configuration and Knowledge options displays the relevant fields that enable granular controls to be set for those processes.
	NOTE: The Finance Role is limited to the processes of Configuration and Service Level Management.
Knowledge	If the User is assigned the Knowledge Management process, their privilege to create, edit, delete and/ or publish KBAs can be configured.
Configuration	If the User is assigned the Configuration Management process, their privilege to create, edit and/or delete Items within the CMDB can be configured on a per task basis.
Customer Org Unit	If the User is also allocated a Customer Role within the system, this field is displayed. Enter Company or Department details that apply to the User in their Customer Role.
Line Manager	(This field is visible if the User is also assign a Customer Role within the system. The information can not be edited if the line manager details are set by the LDAP synch.)
	If relevant, assign a system user with the Customer Role who can approve/reject requests made by this Customer.
Primary Email*	Enter the User's email address. System messages are sent to this address.

User Information Fields

Send To	This field becomes available for Users that have the Customer Role and have alternate email addresses entered on the Aliases tab.		
	Select the most appropriate email address to be set as the default address applied to Customer correspondence. When the Send To field is set to an alias address the Primary Email address is not included in the cc list, unless specified in the request Information tab cc list.		
Phone	Enter telephone details.		
Mobile	A mobile number can be entered as a contact number or for use with SMS (Short Mail Service message). An SMS can be sent to notify the assigned Technician when a Service Request is raised.		
	SMS Messaging options:		
	 From the drop down list, select the SMS service provider. 		
	 Override SMS Address. If your service provider does not appear in the list, click this checkbox and enter an alternate Service Provider. 		
SMS Override	Enter SMS Gateway override details for the User, if a number other than the one entered in the Mobile field is to be used to send/receive updates via SMS. Enter the complete SMS details in email address format, i.e., 000777891@smsgateway.provider.com.		
Fax	Enter known fax details.		
Pager	Enter pager details.		
Salary	An annual salary can be entered. This value is used for reporting.		
Forum Moderator	Select this checkbox to designate this User as a forum moderator. See Forums.		
Survey Manager	Select this checkbox to enable this User to create and manage surveys in the system.		
Supervisor*	Select a Supervisor, if the User has a technician role. Users with the Technician Role must be allocated a Supervisor.		
Partner For	When a User is assigned the Partner Role, their associated Partner Organization must be assigned within this field.		

User Information Fields	
Partner	If the User is also assigned a Customer Role, this field allows the Customer to be associated with a Partner Organization who will handle their requests when they are logged in the system.
Available	Shows if the User is available for requests to be assigned to them. This is based on work hours configured in the Schedule tab of the User and their Vacation Status. If no hours are set within the Schedule tab when the "Define Works Hours" is enabled within Admin>Setup>Privileges>User screen and the User is not on vacation, the system will consider them to be unavailable.
Assignment	**Visible when the Assignment Control is enabled in Admin>Setup>Privileges>User.
	Set to Off if the User is not to be assigned new requests, irrespective of their Availability status.
On Vacation	Placing a Technician on vacation excludes them from being assigned new requests automatically. When On Vacation is activated a Technician's existing requests are not reassigned.
Training	This option is only visible for Technician Users, and when enabled allows the User to be included in Teams to view requests but does not allow them to put the request in edit mode or add Notes.
Email Locale	Adjust the default language for email correspondence, if required.
Country	The User automatically adopts the default Country set for the system. However, the Country can be manually adjusted here for the specific User.
State	Set the State information based on the Country selected, if required.
Timezone	The User automatically adopts the default Timezone set for the system. However, the Timezone can be manually adjusted for the specific User.
GPS	The GPS coordinates of the last known address.

* Denotes Mandatory Fields

1. Complete the User detail information.

2. Click Done.

Emailing User Details

🗳 Email

To email a User regarding their system log in credentials, click the Email button within the User Information screen. If Random Passwords is enabled, selecting Email will reset the Password and forward the details to the User. If Password Questions is enabled in Setup>Privileges>System, selecting Email will send a link to the User directing them to a page that includes the security questions set for their account and reset the password based on the answers provided. Customers must complete this process within an hour of the email being sent.

vCard Button



Select this option to download and open the User's information in an electronic business card format, to email or save outside the system.

1.4.4 Schedule Tab

By default the Schedule tab includes the On Vacation option, which can be set to Yes when the User takes leave. The system will automatically re-assign the User's active requests, if the Vacation Reassign option has been enabled in the Admin>Setup>Privileges>User tab. If this option has not been enabled, a Supervisor User will need to manually re-assign the requests, if required.

If the system Setup has been configured to Define Work Hours and Schedule Vacations, this additional functionality is available within the Schedule tab.

User Information						
Information	Schedule	Aliases	Team	Skills	Org Unit	
					Ingo Engels	
Working Hours						
Relative To	(GMT +5:30) New Delhi					
Apply Template	•					
Sunday	<unavailable> 💌 to</unavailable>	<unavailable></unavailable>	•			
Monday	09:00 💌 to	17:00	•			
Tuesday	09:00 💌 to	17:00	•			
Wednesday	09:00 💌 to	17:00	•			
Thursday	09:00 🔻 to	17:00	•			
Friday	09:00 💌 to	17:00	•			
Saturday	<unavailable> 💌 to</unavailable>	<unavailable></unavailable>	•			
Holidays						
On Vacation	🖲 No 🔍 Yes					
Schedule	00					
	Purpose		Start Date	▼ End Date	■ Active	
		0 -	0 of 0 Results			
				Cancel	Save	

Define Work Hours

Use the drop-down lists to set the hours of work the User is available for the week. Based on what is set here, the system will assign requests to the User during their available hours. However, if no other Technician is available for requests based on their defined work hours, the system will assign the User new requests outside of their set work hours.

NOTE: If the Technician Define Work Hours option has been enabled, the hours of work MUST be defined, otherwise the system will ignore the Technician Assignment logic and automatically allocate new requests to the Team Lead.

Schedule Holidays

The Schedule Holidays functionality allows the Supervisor to pre-book leave in the system for Users. There are no restrictions on the number of days that can be set, and based on the configuration, when a leave period is activated, the system will automatically re-assign active requests to other available Users applying the Technician Assignment logic. If the request was initially drawn from an Incident Queue, it will not return to the Queue but be reassigned to the most relevant Technician based on the Technician Assignment logic.

As a Supervisor User, to schedule User leave:

1. Go to the Users>User option

- 2. Select the hyperlink name of the User
- 3. Move to the Schedule tab
- 4. Click Edit, to activate edit mode
- 5. In the Schedule field, select 🚱

The Vacation Details window is expanded.

6. Enter the reason for leave in the Purpose box

Vacation Details	
Purpose	Anual Leave
Start Date	12/24/15 22:30
End Date	01/04/16 22:29

- 7. Complete the Start and End date details
- 8. Click Save.

The details are recorded in the database and when the Start Date is reached, new requests will not be assigned to the User. After the scheduled End Date, the User account will be automatically re-activated.

Holidays				
On Vacation	No Ves			
Schedule	• •			
	Purpose	■ Start Date	₹ End Date	Active
	Anual Leave	12/24/15 22:30	01/04/16 22:29	
		1 - 1 of 1 Results		

NOTE: It should be noted that if the User on vacation is a Team Lead for any Teams where there are no Technicians available for new request assignment, the system will allocate new requests to the Team Lead, regardless of their vacation status.



The Supervisor Events calendar in the Home tab shows when Users are on Vacation:

Request Subject in the Calendar: Technician will able to view the Request Subject in the calendar only for Request Due and Scheduled Request.

Subject of the Request is displayed in the calendar. In case of lengthier subject, only a part of subject is displayed and tool tip displays the entire subject.

In case if there is no subject, "no subject" is displayed.

1.4.5 Aliases Tab

NOTE: This is only applicable if the User has the Customer Role.

Use the Aliases tab to enter additional email addresses. The system creates requests from emails sent to the system account from a valid email address. Email addresses in the Aliases tab allow the User to send emails to the system account from more than one address. Notifications for requests created using an address in the Aliases tab, are sent to the main email address and cc'd to the alias address that was used to create the request.

When one or more alias email addresses have been created for a Customer, a Send To field is displayed on the Customer Information screen, which allows the most appropriate email address to be set as the default address applied to Customer correspondence. When the Send To field is set to an alias address the Primary Email address is not included in the cc list, unless specified in the request Information tab cc list.

User Information						
Information Schedule Aliases Team Skills	Org Unit					
Add Remove	Ingo Engels					
Email	<u>à</u>					
ingo@epm.blr.novell.com						
1 - 1 of 1 Results						
	Done					

To add an alias email address:

- 1. Select User>Users.
- 2. Click on the User name

The User Information screen appears.

- 3. Select the Aliases tab
- 4. Click Edit to access the Add button
- 5. Click Add
- 6. Enter an alias email address
- 7. Click Save.

When an alias email address has been created for a Customer, a Send To field is displayed on the Customer Information screen, which allows the alias email address to be set as the default address applied to Customer correspondence.

NOTE: An alias will only be used if the User has a Customer Role.

To remove an Alias Email Address, in Edit mode, tick the checkbox next to the Email Address and click the Remove button.

1.4.6 Team Tab

The User Team tab lists Teams associated with the selected User. Use this section to assign the User to one or more support Teams, making the additions by Team or job Assignment templates that have been configured in the system. Processes selected in the Information tab for the User determine the Teams available in the Team tab.

Once a User is assigned to the Team, the Supervisor must configure the escalation layers for the Team to include the new User. However, the User can easily be added to Layer One of escalation when associated with a new Team by ticking the Assign new users to layer one option when assigning the Team within this tab. Also, if Assignment templates are created in the system, by selecting Team Template, the User will automatically be added to Teams, Escalation Layers and Work Groups configured within the selected Template.

NOTE: The User must be assigned the relevant Processes for Support Teams to be shown in Team search results. If an Assignment template is selected and includes Teams for Processes the current User is not allocated, those Teams will not be included on the Template.

To add a User to a Team within the Team tab:

1. Click Edit

User Information			
Information	Schedule Aliases	Team Skills	Org Unit
			Ingo Engels
Add By	Team 💌		
Teams	 BYOD-Incident-Team Change Management Team 	Find Team (Name)	e
		Assign new user to layer one	
		Cancel	Save

2. Using Add By Team, enter a Team Name in the Find Team field and click (a) or leave the field empty and click (a)

The Teams for Processes that the User is assigned are displayed in the search results.

- 3. Tick "Assign new user to layer one", if relevant
- 4. Select a Support Team link

The User is assigned to the Team and layer one of escalation if appropriate.

5. Click Save.

To add a User to a Team within the Team tab using Assignment templates:

- 1. Click Edit
- 2. Within the Add By field, select Team Template

Job Assignment Templates that have been configured in the User>Assignments tab are displayed, but only including Teams consistent with the Processes assigned to the User

User Information					
Information	Schedule	Aliases	Team	Skills	Org Unit
					Ingo Engels
Add By	Team Template	•			
Templates		•			
				Cancel	Save

- 3. Select one or more Template options
- 4. Click Save

The User is automatically included in the Teams, Escalation Layers and Work Groups configured in the Template.

User Information					
Information	Schedule	Aliases	Team	Skills	Org Unit
					Ingo Engels
Add By	Team Template	•			
Templates	New Template	•			
	Team Name		<u>à</u>	Layer	≣
	Portfolio			Management	
			1 - 1 of 1 Results		
			(Cancel	Save

To remove a User from a Team:

1. Select User>Users

The User Information screen appears.

- 2. Click on the name of the User
- 3. Select the Team tab
- 4. Click Edit
- 5. Select c remove a Team assignment
- 6. Click Save
- 7. Click Done.
- **8. NOTE:** If a User is the Team Lead or the only person assigned to an escalation layer they cannot be removed from a Team under this tab.

1.4.7 Skills Tab

Use this section to assign any specific Classifications that are to be handled by a Supervisor, Technician or Partner. This assignment assumes areas of expertise for Users assigned to these Classifications. This allows the system to automatically route requests logged against these Classifications to the most appropriate User.

NOTE: Prior to using the Skills tab, Items and Classifications should be configured.

Assigning a Classification

To assign a Classification:

- 1. Select User>Users>Skills
- 2. Click Edit to display the Add button
- 3. Click Add
- 4. Select the Item Category

The Item Type and Classification Type drop-down list is displayed.

User Information			
Information Schedule	Aliases Team	Skills	Org Unit
			Ingo Engels
Item Category	•		
Cancel Save			
2 Classification	🛓 Item Category	Item Type	≣
	0 - 0 of 0 Results		

- 5. Choose an Item Type, if relevant
- 6. Select * to assign all Classifications as Skills or choose a specific Classification

The list displayed will include all Classifications configured for the Item Category and the Item Type, if an Item Type is selected.

User Information						
Inform	ation Schedule	Aliases Team	Skills	Org Unit		
				Ingo Engels		
Item Category	Hardware	•				
Item Type	Dell Latitude E6430	•				
Classification	*					
	*					
Classific	Configuration Downloads General	🛓 Item Category	Item Type	≣		
	Manuals Network	0 - 0 of 0 Results				

- 7. Click Save
- 8. Click Done.

NOTE: The Classification assigned to the User is either based on the Classifications of an Item Category or Item Type, hence displaying two columns. However, the Item Type column will only include information when the Classification selected is specific to that Item Type, and not directly related to the Item Category.

To remove a Classification:

1. Select User>Users

The User Information screen appears.

- 2. Click on the name of the User
- 3. In the Skills tab, click Edit

The Delete button appears at the bottom right.

- 4. Click the checkbox next to the Classification. Multiple Classifications can be checked
- 5. Click Remove
- 6. Click Done.

NOTE: The Classification assigned to the User is either based on the Classifications of an Item Category or Item Type, hence displaying two columns. However, the Item Type column will only include information when the Classification selected is specific to that Item Type, and not directly related to the Item Category.

1.4.8 Org Units

Use this section to assign one or more Org Units to a Supervisor, Technician or Partner, which will result in requests that are logged by these Org Units being routed to the assigned Users. When Users are assigned to support Organizational Units, the Find Customer option during the request creation process, displays the Supported Org. Units Only option. This limits the Customer search results to those Customers who belong to the Org. Units the logged in Technician is assigned to support.

Find Customer	
First Name	Email
Last Name	Phone
Username	Org. Unit
Supported Org. Units Only	9

Assigning an Org Unit

To assign an Org Unit:

- 1. Select User>Users>Org Units
- 2. Click Edit to display the Find Org. Unit search field
- 3. Enter any known Org Unit details or leave the field blank to return the full list of Org Units recorded in the system

User Information					
Information	Schedule	Aliases	Team	Skills Org Unit	
				Ingo Engels	
Org. Units			Find Org. Unit (Nam	ne)	
				. 0	
			Cano	sel Save	

- 4. Click 🝳
- Click on the Org Unit name hyperlink to associate it with the User Multiple selections may be made, if required.
- 6. Click Save.

Removing an Org Unit

To remove the association between a User and an Org Unit:

1. Select User>Users

The User Information screen appears.

- 2. Click on the name of the User
- 3. In the Org Unit tab, click Edit
- Select next to the relevant Org Unit
 The Org Unit details are removed from the tab.
- 5. Click Save
- 6. Click Done.

Delegate

Use this section to assign this user as delegate for one or more Org Units or customers. Depending on requirements, you can assign or remove the Org Units or customers. To assign, click the search icon, and select the required Org Units or customers.

To Remove, click the 🗬 icon next to the relevant Org Units or customers.

For more information about the delegate role, see "Delegate" on page 319

1.5 Technician Assignment

The logic behind Technician Assignment within the system is more than the application basing the allocation on the Technician location, load or skill set, as more extensive parameters are considered when routing requests to Technicians. By understanding the variables within the assignment process, Users can configure the system to better reflect the workflow of its service support Team environment.

When a request is logged with the service desk, the Team is selected based on the SLA and Workflow State of the request.

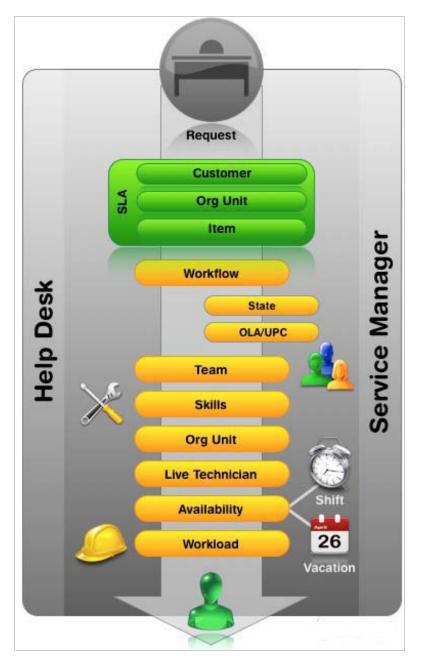


Figure 1: Request assignment logic

After the Team has been assigned to the request, the application:

- 1. Checks if the Team has escalation layers, and validates the capability of Technicians in Layer or Group associated with the request
- 2. To make an assignment within the layer or group, the system checks if Technicians are assigned areas of specialty Skills or Classifications. If so, the system matches the Classification of the request with the Classifications supported by the Technician
- 3. If multiple Technicians are assigned the relevant Classification, or if specific Classifications are not assigned to the Technicians within the Team, then the system verifies if Team members have been assigned to support specific Organizational Units. If so, the application will match the Organizational Unit of the Customer to the Technician
- 4. If the Team "Live Priority" feature has been enabled, the system checks for Team Technicians logged into the application. If multiple matches have been made between the Technician Skills and the request's Classification, and the Org Unit of the Customer and Technician, the system checks for technicians logged into the application. However, if no match is made between the Skills and Organizational Unit, it will still check for the logged in User if the Live Priority Team functionality is active
- 5. If there are multiple valid Technicians based on Skill, Org Unit and/or Logged In User, the application will allocate the request to a Technician with the lightest request load.

NOTE: It should be noted that if the Technician Define Work Hours option has been enabled in the Admin>Setup>Privileges>User, the hours of work MUST be defined within the Super>User>User>User>User>Schedule tab, otherwise the system will ignore the Technician Assignment logic and automatically allocate new requests to the Team Lead.

Please note that these are not only the forces that govern request assignment. Other factors that determine the routing of requests include the Team assigned to Workflow State, the Technician assignment privilege and if request Queues are enabled.

1.5.1 Service Manager and Workflow States

Within Service Manager the pool of Technicians that can be assigned to a request is increased by the OLA or Underpinning Contract assigned to the Workflow State of the request.

Service Manager allows Workflow States to be governed by internal or external contracts, known as OLAs or Underpinning Contracts, respectively. OLAs can be assigned to different support Teams, which means if the Team changes as a result of the Workflow State change, the request may be routed to a whole new pool of Technicians.

If the Workflow is supported by an Underpinning Contract, the request is assigned internally to the responsibility of the Service Level Manager.

1.5.2 Self Assign Option

The Self Assign functionality allows the application to override the business logic of request assignment. This feature enables the automatic allocation of requests to the Technician who creates the request. A Supervisor User can activate Self Assign for requests on a per Team basis, within the Team Information screen.

1.5.3 Request Queues

That about covers the automated routing of requests, but support Teams who prefer to create a queue or holding bay for newly created requests, are also catered for within the system.

Queues are activated on a per Team basis. This means, where one support Team may use the automated routing process, another can create a holding bay. The holding bay allows Technicians to choose their jobs from the Queue, as opposed to having requests automatically assigned by the system.

The Administrator User can activate the Queues feature in the application Setup>Privileges>Requests tab. The Supervisor User then enables the option within the Team Information screen, as required. New requests assigned to a Team with this preference enabled, are assigned to the System User. To access requests held in the Queue, Technicians use the Request Queue Filter within the Home Tab.

The request can then be re-assigned to a specific Technician within the Summary Tab of the request. See: Queues.

1.6 Organizational Units

Customers can be assigned to a Company within the system. This can be refined by allocating the Customer to a Department, and if relevant, to a specific Room. This information is stored within the Organizational Unit details.

NOTE: Companies can exist without Departments, but Departments and Rooms can only be created as part of Company information.

Technicians can also be assigned to service specific Organizational Units.

1.6.1 Organizational Unit Filters

The Organizational Unit list can be filtered to display the following views:

System List Filters	Description
Organizations	Shows the Companies supported by the service desk.
Org. Units	Lists all Departments included within Companies.
All	Lists complete Org Units, with Company and Department names.

To change the List View, select the relevant option from the Filter list.

Organizational Units								
New $ ho$ Sea	rch Export:	Current Page 💌	8	Filter:	All [sys]	Display:	10 💌	۲
Name	🛓 Primary Contact	City	State		All [sys] Org. Units [sys]	bsite	E	
Micro Focus					Organizations [sys]			*
Micro Focus - Accounts Dept					Save View as Filter			
Micro Focus - Electrical Engg					Edit Filter List			
Micro Focus - Head Office								
Micro Focus - Information Technology								-
		1 - 5	of 5 Results					

1.6.2 Organizational Units and External Authentication

Organizational Unit relationships can also be mapped from an authentication server. By default this is not enabled. To activate Customer Organizational Unit mapping, as an Administrator go to the Advanced tab for the selected authentication server within Admin>Setup>Authentication. Select Yes for the Import Customer Organizational Units option.

Customer Orgs	• Yes 🔘 No		
Company	Standard	Custom	
	company		-
Department	Standard	Custom	
	department		-

NOTE: The details of the Org. Units are not populated upon this synch, only the Org Unit names. For the Org Unit details to be assigned to Customer or User Information, create the Org Unit in the Supervisor>User>Org Units tab and ensure the Org Unit name is identical to what is stored in the authentication server. If the details are not identical, the system will create another Org. Unit.

1.6.3 Details Tab

Use the Details tab to create an Organizational Unit.

Creating an Organizational Unit

To create an Organizational Unit:

- 1. Select User>Organizational Units
- 2. Click New
- 3. Complete the Organizational Unit Name
- 4. Select Organizations or Org. Units within the Filter drop-down list

Org. Unit Informat	ion				
Details	Customers	Technicians	Items	Requests	Contracts
Information					
Name			Notes		
Org. Unit Type	Company	•			
Org. Unit Code	Company Department				
Address 1					
Address 2					
City			Handshaking		
Zip			Override	🔘 Yes 🛛 🔍 No	
			Partner		
Country		•	Customer of		•
Phone					
URL					
Email					
				Cancel	Save

- 5. Enter other details, if required
- 6. Select Handshaking override option, if relevant

If the System Default Handshaking Close Action days is to be adjusted for the Org. Unit, select Yes in the Handshaking Override field. Enter the number of Days to lapse before a request will close if the Customer does not respond to the handshake email notification.

7. If appropriate, set the Partner Organization

(The Partner Organization is an external service provider that includes Partner Users who can manage requests logged with the system for Customers associated with the Company or Department being created.)

8. Click Save.

Primary Contact

When multiple Customers are assigned to an Organizational Unit, a Primary Contact person can be allocated for the Org Unit. This is the preferred person the Service Desk will contact for issues relating to the Org Unit.

To assign a Primary Contact:

- 1. Select User>Organizational Units
- 2. Select an Org Unit Name

The Details tab is displayed. If Customers have been assigned to the Org Unit a Primary Contact field will be visible.

3. Within the Details tab, click Edit

The Find Customer box is displayed. (Note that this search is only visible when Customers have been assigned to the Org. Unit)

Primary Contact	Find Customer (Last Name)	0

4. Search for the Customer

To view all available Customers click Search without entering a Customer last name in the search field.

- 5. Click the Customer name to assign them as the Primary Contact
- 6. Click Save.

Default Item

When an Organizational Unit owns multiple Items, within the Default Item field an Item can be used as the one to be automatically applied to all requests created via email for the Organizational Unit.

To assign a Default Item:

- 1. Select User>Organizational Units
- 2. Select an Org Unit Name

The Details tab is displayed with the Default Item visible at the bottom of the first column.

3. Within the Details tab, click Edit

The Find Item box is displayed.

Default Item	Find Item (Ite	em Number)	
			0
	Item Number	🛓 Item Type	
	Microfocus - eLearning	Website Services	
		1 - 1 of 1 Results	

4. Search for the Item

To view all available Items click 🚇 without entering an Item Number in the search field.

- 5. Click the Item Number link to assign it as the Default Item
- 6. Click Save.

1.6.4 Customers Tab

This tab displays all Customers assigned to the Organizational Unit. Customers cannot be added within this screen, as they are allocated to Org. Units when they are created or through the User>Customer>Customer Information screen. The list can be filtered based on Customers directly assigned to the Org. Unit, or all Customers associated with Company Org. Units including those associated with related Departments.

Org. Unit Information				
Details Custo	mers Technicians Depar	tments Items	Requests Con	tracts
			м	icro Focu
			4	All -
Customer Name	🛓 Email Address	Phone	≣ Org. Unit 🛛	ll ssigned
Andy Fair	andy@nsd.com		Micro Focus - Head Off	ice
Anil k	anil@nsd.com		Micro Focus - Accounts	Dept
Guruprasad S	guru@nsd.com		Micro Focus - Electrical	Engg
James Stewart	james@nsd.com		Micro Focus - Informatio Technology	n
Jason Blackett	jason@nsd.com		Micro Focus - Informatio Technology	n
Jeff Lag	jeff@nsd.com		Micro Focus - Head Off	ice
Michael Angelo	michael@nsd.com		Micro Focus - Head Off	ice
Paul Pedron	paul@nsd.com		Micro Focus - Head Off	ice
Sachin Kumar	sachin@nsd.com		Micro Focus - Electrical	Engg
Sunil k	sunil@nsd.com		Micro Focus - Accounts	Dept
	1 - 10 of 11 i	Results 🚽 🚽		
			D	one

1.6.5 Technicians Tab

The Technicians tab allows support technicians to be assigned as key support staff for an Org. Unit. This means when requests are created, the system checks if the Item's Organizational Unit has Technicians assigned to service its request. If so, the request is routed to a Technician assigned to the Org. Unit.

Assigning a Technician to an Organizational Unit

To assign a Technician to an Organizational Unit:

- 1. Select User>Organizational Units
- 2. Select Org Unit Name
- 3. Move to the Technicians tab
- 4. Click Edit
- 5. Click New

Org. Unit Inform	ation							
Details	Customers	Technicians	Departments	It	ems	Reques	sts	Contracts
								Micro Focus
Available Technicians:	Craig Wilson		Cancel	Save				
Technician	Craig Wilson Ingo Engels				Email			
Joe K	Joe K Kamal K				joe@nsd.c	com		
	Sankar R Vaibhav Jain		1 - 1 of 1 Results					

6. Select a Technician name from the drop-down list

- 7. Click Save
- 8. Select Done.

After adding the technicians, You can select one or more technicians and click Set as Delegate to assign delegates for the customer of this Org. Unit.

To remove technicians as Delegate, select the technicians and then click Remove as Delegate.

Org. Unit Informati	on		
Details	Customers Technicians	Departments Items	Requests Contracts
			OrgUNit1
Technician		≡ Email	Delegate
Suryansh Gupta		suryansh@nsd.com	No
🗌 kamal Kushwaha		kamal@nsd.com	No
		1 - 2 of 2 Results	
	New	Delete Set as delegate	Remove as delegate Done

For more information about the delegate role, see "Delegate" on page 319

Deleting a Technician Assignment

To delete a Technician assignment:

- 1. Select User>Organizational Units
- 2. Select the Org Unit Name
- 3. Move to the Technicians tab
- 4. Click Edit
- 5. Tick the checkbox next to the Technician name
- 6. Click Delete
- 7. Click Done.

1.6.6 Departments Tab

The Departments tab allows Company group information to be refined. Departments are created for a Company within the Departments Tab.

Creating a Department

To create a Department:

- 1. Select User>Organizational Units
- 2. Select Org Unit Company Name
- 3. Move to the Departments tab

Org. Unit Information		
Details Customers Technician	s Departments Items	Requests Contracts
New		Micro Focus
Department Name	Primary Contact	Phone
Micro Focus - Accounts Dept	Anil k	
Micro Focus - Electrical Engg		
Micro Focus - Head Office		
Micro Focus - Information Technology		
	1 - 4 of 4 Results	
		Done

- 4. Click New
- 5. Enter the Department Name
- 6. Enter other details, if required
- 7. Select Handshaking override option, if relevant

If the System Default Handshaking Close Action days is to be adjusted for the Org. Unit, select Yes in the Handshaking Override field. Enter the number of Days to lapse before a request will close if the Customer does not respond to the handshake email notification.

8. Click Done

The system will move to the Department Editor, to allow Rooms to be added to the Department.

1	Information The Department was added successfully. You may now add Rooms.					
Org. Unit Int	formatio	on				
Detai	ils	Customers Technicians Ro	oms Items	s Requests Contracts		
Edit				MicroFocus De	ept1	
Info	ormation					
	Name	Micro Focus - MicroFocus Dept1	Notes			
Org. L	Unit Type	Department				

- 9. Select the Rooms tab if Rooms are to be added immediately
- 10. Click Edit
- 11. Select New

Org. Unit Informa	tion						
Details	Customers	Technicians	Rooms	Items	Reque	sts Contrac	ts
Edit							a
🖾 Room Name							
			0 - 0 of 0 Results				
						Done	

- 12. Enter the Room details
- 13. Click Save
- 14. Click New to add another Room or select Done.

	Information
	The Room was added successfully.
Org. Unit I	Information
Deta	ails Customers Technicians Rooms Items Requests Contracts
	a
🖾 Room Na	ame
Building 1	1
	1 - 1 of 1 Results
	New Delete Done

Edit a Department

Department details are edited through the Org. Units Filter of the Organizational Unit list.

To edit a Department:

- 1. Go to User > Org Units
- 2. Select the filter option Org.Units (sys)
- 3. Select a Department from the list provided
- 4. Click Edit
- 5. Modify the details as necessary
- 6. Select Save

1.6.7 Rooms Tab

To expand Department details, Room locations can be created. This allows Customers to be assigned to specific locations within an Organizational Unit. The Rooms tab is only visible for Department Org Units that are accessed through the *Org.Unit filter of the Org Unit list*.

Org. Unit Information								
Details Custo	mers Technicians	Rooms	Items	Requests	Contracts			
					a			
🖾 Room Name								
Building 1								
	1-	1 of 1 Results						
			New	Delete	Done			

Adding a Room to a Department

To add a Room to a Department:

1. Within the Organizational Units list select the Org.Units filter

Organizational Units							
New $\begin{tabular}{c} \label{eq:New} \end{tabular}$	arch Export:	Current Page 💌	% -	Filter: All [sys]	▼ Display	10 💌 🐵	
Name	🛓 Primary Contact	City	≣ State	■ (All [sys] Org. Uni		≣	
Micro Focus				Organiza	itions [sys]	*	
Micro Focus - Accounts Dept	Anil k			Save Vie	w as Filter		
Micro Focus - Electrical Engg				Edit Filte	r List		
Micro Focus - Head Office							
Micro Focus - Information Technology							
Micro Focus - a		а		Iceland	1212	-	
		1 - 6	of 6 Results				

- 2. Select the relevant Department/Org.Unit link
- 3. Move to the Rooms tab
- 4. Click Edit
- 5. Click New
- 6. Enter the Room Name
- 7. Click Save

1.6.8 Items Tab

This tab lists all the Items that have been assigned to the Organizational Unit.

Org. Unit	Information			
De	tails Customers	Technicians Departm	ents Items	Requests Contracts
				Micro Focus
Item No.	≣ Item Type		🛓 Team	≣
		0 - 0 of 0 Resul	ts	
				Done

1.6.9 Requests Tab

This tab lists all requests generated by the Organizational Unit. To view or modify a request, select the Task# hyperlink.

Org. l	Jnit Informa	ation						
	Details	Customers	s Technicians	Departments	Items	Requests	Contracts	5
							Micro F	ocus
						Filter:	Incidents [sys]	•
Task #	₹P	rocess	Date	Technician		■ Customer		■
				0 - 0 of 0 Results				
							Done	

1.6.10 Contracts Tab

The Contracts tab displays an Organizational Unit's current contract status. An Organizational Unit can be assigned an SLA or, when Billing is enabled, a Contract that manages the period of time the SLA applies to the Org Unit. When Contracts are enabled, an Organizational Unit can have only one active Contract in the system at any one time and must have an assigned Primary Contact.

To update the Service Level assignment when Contracts are disabled:

- 1. User>Organization Units
- 2. Select the required Org Unit

The Org Unit Information screen will open.

- 3. Select the Contracts tab, click Edit
- 4. In SLA Details, using the drop-down menu, select the SLA
- 5. Select Save

When Contracts are in use throughout the application, timeframes are set for Service Levels and Contract history is displayed within the Contracts tab. It is also possible to assign a Service Level and/ or Contract within the Contracts tab.

Org. U	Jnit Informati	on					
	Details	Customers	Technicians	Rooms	Items	Requests	Contracts
							Accounts Dept
	Contract						
	Service Level	Warranty					
	Contract #	5 😢					
	Contract Type	Subscription					
	Invoice #	100008					
	Start Date	01/05/16					
	End Date	03/02/18					
	Expires	2 Years 1 Month 14 I	Days				
			Items	Org Unit	Customers	Requests	Audit
	Contract #	Ţype	SLA	Invoice #	Start Date	End Date	Add
	5	Per Org Unit	Warranty	100008	01/05/16 12:12	03/02/18 23:59	Delete
	1	Per Org Unit	Warranty	100001	01/05/16 11:53	01/05/16 12:11	
				1 - 2 of 2 Results			
						Cancel	Save

To create a new Contract for an Organizational Unit:

NOTE: To assign a Contract to an Org Unit, a Primary Contact must be nominated for the Org Unit or the system will prompt the User to assign a Primary Contact during the Contract assignment process. This means, prior to creating the Contract assign at least one Customer to the Org Unit and then designate a Customer as the Primary Contact. To assign a primary contact:

- 1. Select User>Organizational Units
- 2. Select an Org Unit Name

The Details tab is displayed. If Customers have been assigned to the Org Unit a Primary Contact field will be visible.

3. Within the Details tab, click Edit

The Find Customer box is displayed. (Note that this search is only visible when customers have been assigned to the org unit)

Primary Contact	Find Customer (Last name)	1
	Q Search	

- 4. Search for the Customer. To view all available customers click Search without entering a customer last name in the search field
- 5. Click the Customer name to assign them as the Primary Contact
- 6. Click Save

To create a new Contract for an Organizational Unit:

- 1. Select User> Organizational Units
- 2. Select the Organizational Unit's Name
- 3. Move to the Contracts tab

Org. Unit Information					
Details Customers	Technicians	Rooms	Items	Requests	Contracts
Edit					Electrical Eng
SLA Details					
Service Level					
Contract # No Contract Assigned					
		Items	Org Unit	Customers	Requests
Contract # 🐺 Type	SLA	≣ Start Date	≣ End Dat	e 🔳	
		0 - 0 of 0 Results			
					Done

4. Click Edit

The Add and Delete buttons become available with the Contracts>Org Unit tab.

5. Click Add

If a Primary Contact has not been assigned to the Org Unit a system prompt will notify the User to create a Primary Contact. See: Primary Contact.

6. Select a Service Level from the list

When selected, the screen expands to display start and end date fields.

Org. Unit Information							
Details C	ustomers	Technicians	Rooms	Items	Re	quests	Contracts
Contract							
Service Level	Warranty						
	Priority	Response Time	Restoration Time	Resolution Time	24 x 7 suppo	rt Alert	
	Urgent	6 Hours	12 Hours	24 Hours	Yes	None	
	High	12 Hours	24 Hours	48 Hours	Yes	None	
	Medium	18 Hours	36 Hours	72 Hours	Yes	None	
	Low	24 Hours	48 Hours	96 Hours	Yes	None	
Contract Type	Per Org Unit						
Time	Subscription	-					
	Subscription						
Start Date	Thine Enniced						
End Date	Support Hour Support Hour		ļ				
					C	ancel	Save

7. For the Per Org Unit Contract Type the Time Period for the Contract can be defined as one of the following:

Subscription if selected, the Start and End Dates are automatically set to a year from the date of creation, but can be edited if required.

Time Limited Subscription if selected, the Support Hours field is displayed and the number of support hours purchased by the Customer should be entered. Also, the Start Date and End Date fields should be completed manually by entering the length of time for the subscription period, or the system will default to entering a year from the date of creation.

Support Hours if selected, the number of support hours purchased by the Customers should be entered.

Support Hours by Month if selected, set the number of hours purchased per month and define which day of the month contract is to rollover to start the new month. The Total Support Hours will automatically be calculated based on the Start and End Dates set for the Contract.

(If a Contract is forward dated with a Start Date set in the future, the Pending Contract status is assigned. See Pending Contracts.)

- 8. Click Save
- 9. Click Next to continue

The system reverts to the Contracts summary screen, if the contract is forward dated and another contract is not already active, the Enable Contract option button will be available. Select this button if the contract is to commence prior to the set Start Date. Alternatively, other contracts can be queued for the Org Unit by selecting the Add button.

rg. Unit Info	ormatio	n					
Details		Customers	Technicians	Rooms	Items	Requests	Contracts
							Accounts Dep
SLA D	etails						
Service	e Level Wa	arranty					
Con	tract # No	Contract Assigned					
Pending Cont	tract # 5 🛊	nable Contract					
				Items	Org Unit C	ustomers	Requests
				Trems		uscomers	Requests
	🖾 Contra	act#	SLA	≣ Start Date	≣ End Date	≣	Add
1	5	Per Org U	nit Warranty	02/02/17 12:	10 03/02/18	23:59	Delete
1	1	Per Org U	nit Warranty	01/05/16 11:	53 01/05/16	12:11	
			1.	- 2 of 2 Results			
						Cancel	Save

10. Click Save

To process the contract before the set Start Date select the Enable button.

Details							
	Custome	ers Tech	nicians	Rooms	Items	Requests	Contracts
Edit							Accounts Dep
SLA Details	5						
Service Level	l Warranty						
Contract #	# No Contract A	ssigned					
Pending Contract #	# 5 Enable Contr	ract					
				Items	Org Unit	Customers	Requests
C	ontract #	Туре	SLA	Start Date	≣ End Dat	ie 🔳	
5		Per Org Unit	Warranty	02/02/17 12:1	10 03/02/1	8 23:59	
1		Per Org Unit	Warranty	01/05/16 11:5	53 01/05/1	6 12:11	
			1 - 2 0	of 2 Results			
							Done

11. Click Done.

A success message is displayed.



Org. Unit Informa	tion							
Details	Custom	iers T	echnicians	Rooms	Items	Reques	ts	Contracts
Edit								Accounts Dept
SLA Details	:							
Service Level	I Warranty							
Contract #	ŧ 5							
Contract Type	Subscription							
Start Date	01/05/16							
End Date	03/02/18							
Expires	2 Years 1 Mo	onth 27 Days						
			Items	Org Unit	Customers	Requests		Audit
Ci	ontract #	🛙 Туре	SLA	≣ Start Da	te 🔳	End Date	≣	
5		Per Org Unit	Warranty	01/05/16	3 12:12	03/02/18 23:59		
1		Per Org Unit	Warranty	01/05/16	5 11:53	01/05/16 12:11		
				1 - 2 of 2 Results				
								Done

12. NOTE: If Invoices are enabled, a new invoice is automatically saved within the Finance>Invoices screen for the newly created Contract. If payment is required, a Pending Invoice Number is displayed and once processed, the Contract will be listed in the Org.Unit Information>Contracts>Org.Unit tab.

To delete a current Contract, as a Supervisor User, select Cancel next to the Contract Number. Alternatively, to delete a current or queued Contract, within the Contract>Org Unit tab check the field next to the relevant Contract # and select the Delete button.

The Items and Customers tab within the Org Unit>Contracts screen is used to list all the Items and Customers Contracts that are associated with the selected Org Unit.

1.7 Primary Contact

When multiple Customers are assigned to an Organizational Unit, a Primary Contact person can be assigned to the Org Unit. This is the preferred person that will be contacted regarding issues related to the Org Unit.

NOTE: When Billing is enabled, a Primary Contact must be assigned to the Org Unit if the Org Unit is to be allocated to an Item. If a Primary Contact has not been assigned to an Org Unit, the Org Unit will not be displayed as an option in Org Unit search results of the Item Information screen.

To assign a Primary Contact:

- 1. Select User>Organizational Units
- 2. Select an Org Unit Name

The Details tab is displayed. If Customers have been assigned to the Org Unit a Primary Contact field will be visible.

Org. Unit Informat	ion				
Details	Customers	Technicians	Items	Requests	Contracts
Information					
Name	My Company		Notes		
Org. Unit Type	Company	•			
Org. Unit Code					
Address 1					
Address 2					
City			Handshaking		
Zip			Override	🔘 Yes 🛛 🔍 No	
Country			Partner		
Country		•	Customer of		•
Phone					
URL					
Email					
				Cancel	Save

3. Within the Details tab, click Edit

The Find Customer box is displayed. (Note that this search is only visible when Customers have been assigned to the Org Unit

Primary Contact F	Find Customer (Last Name)
----------------------	---------------------------

4. Search for the Customer

To view all available customers click Search without entering a customer last name in the search field

- 5. Click the Customer name to assign them as the Primary Contact
- 6. Click Save.

1.8 Customers

The Customers tab is used to create, modify and delete Customer Accounts.

A Customer is a User assigned the Customer Role. They can be internal or external to the organization and can raise Incidents through the Customer Portal or via email. Service Desk staff can also generate requests on behalf of the Customer.

Service Desk Customers can be created within this tab. The Administrator can also import Customers from a .CSV file, or synchronize the system with a directory server.

NOTE: If Customers are imported using a directory server and the mixed mode authentication method is disabled, the option to create Customers within the Users tab is not available.

1.8.1 Creating a Customer Account

Customer Information includes the following tabs:

- Information
- Aliases
- Items
- Requests
- Contracts

1.8.2 Information Tab

This tab is used to enter contact information about a Customer, creating a new Customer account.

NOTE: If Custom Fields are to be created for Customer Information, it is recommended the Administrator complete the customization prior to creating Users. (See Administrator: Custom Fields.)

To create a Customer account using Internal Authentication:

- 1. Select User>Customers
- 2. Select New
- 3. The Customer Information screen appears with the following fields:
- 4.

Customer Information Fields	
Access	
Title	If enabled, select the appropriate title from the drop-down options. (This field is displayed if the Enable Titles option is set to Yes in the Admin>Setup>Setup>Privileges>Customer tab.)
First Name*	Customer's First Name.
Last Name*	Customer's Last Name.
User Name*	The login User name credentials for the User. If this is imported via LDAP or Active Directory, it can not be edited. Otherwise, enter a Username. Note that the value must be unique.
Password/ Confirm Password	The Default Password is set to the Customer's email address or a random string can be enabled by the Administrator in Setup>Privileges>System. See Authentication.
	Customers can reset their password from the Customer Portal, or a Service Desk User can reset it in the customer account details using the Reset Password button through the Customer> Information tab.

Customer Information Fields	
Web Access	Web Access allows Customers to view their account information and Incidents via the Customer Portal.
Contact	
Primary Email*	The Customer's Email address. System messages are sent to this address.
Send To	This field becomes when alternate email addresses are entered on the Aliases tab.
	Select the most appropriate email address to be set as the default address applied to Customer correspondence. When the Send To field is set to an alias address, the Primary Email address is not included in the cc list, unless specified in the request Information tab cc list.
Org. Unit	The Organizational Unit, be it a Company or Department with which the Customer is associated.
	(Organizational Units are created by the Supervisor, in Users >Organizational Units.)
Delegates	To assign a delegate for customer, click the search icon and select the required technicians.
	For more information about the delegate role, see "Delegate" on page 319
Line Manager	If relevant, assign a system user with the Customer Role who can approve/reject requests made by this Customer, as part of the Change Management or Service Request approval process. (This information can not be edited if the line manager details are set by the LDAP synch.)
Room	This field is visible if the Display Rooms option is set to Yes in the Setup>Privileges>Customer screer and there are Room details configured in Organizational Units.
Address 1	First line of Customer's address.
Address 2	Second line of Customer's address.
City	Customer's city details
State	Customer's State details. Options will be displayed for the State, once the Country is selected, if Regions are configured for the Country in the system.
Zip/Postcode	Customer's area code.

Customer Information Fields	
Country	Customer's country. The country selected will determine the time zone and state options for the Customer.
Email Locale	Set the default language for email correspondence.
Phone	Enter Phone details.
Fax	Enter the Customer's fax number, if relevant.
Pager	Enter the Customer's pager details, if relevant.
Mobile	A mobile number can be entered as a contact number or for use with SMS (Short Mail Service message). An SMS can be sent to notify the assigned Technician when a request is created.
	SMS Messaging options:
	 From the drop-down list, select the SMS Service Provider.
	 Override SMS Address. If your service provider does not appear in the list, click this checkbox and enter an alternate Service Provider.
SMS Override	Enter SMS Gateway override details for the Customer, if a number other than the one entered in the Mobile field is to be used to send/receive updates via SMS. Enter the complete SMS details in email address format, i.e., 000777891@smsgateway.provider.com.
Partner	
Customer of	Nominate the Partner Organization associate with the Customer. This is an external service provider who manages the Customer's request.
	(The option is enabled by the Administrator in Setup Privileges> Use >Edit Customer Partner. The Partner Organizations are defined by the Supervisor in the User>Partner Organizations tab.)
Locale	
Time zone	The Customer automatically adopts the default Timezone set for the system. However, the Timezone can be manually adjusted here for the specific Customer.
Last Login	Auto-populated with the date the Customer last logged into the system.
Host	The IP address of the last login for the Customer

Customer Information Fields	
GPS	The GPS coordinates of the last known address for the Customer. (This field is displayed when the Record GPS option is enabled in Admin>Setup>Setup>Privileges>Customer tab.)
Roles	
Current*	Multiple Roles can be assigned to a User. Select other Roles the Customer will use, by ticking the check boxes.
	Note: If the Technician Role is selected, a Supervisor must be allocated.
Default Portal	The Default Portal is the user interface a Customer, who is assigned multiple Roles, accesses by default when they log into the system.
	NOTE: If the Users Default Portal is set to Customer, the User details will not be accessible in the Users list, but included in the list within the User>Customer tab.
Details	
Notes	Click on the field to enter any Customer relevant information.

* Denotes mandatory fields

1. Click Done.

Emailing Customers Credentials

🖾 🖾 Email

To email a newly created Customer details regarding their system log in details, click the Email button within the Customer Information screen. If Random Passwords is enabled, selecting Email will reset the Password and forward the details to the Customer. If Password Questions is enabled in Setup>Privileges>System, selecting Email will send a link to the Customer directing them to a page that includes the security questions set for their account and reset the password based on the answers provided. Customers must complete this process within an hour of the email being sent.

vCard Button



Select this option to download and open the Customer's information in an electronic business card format, to email or save outside the system.

1.8.3 Aliases Tab

The Aliases tab is used to enter additional email addresses. Email addresses in the Aliases tab allow the Customer to send emails to the System or Team support addresses from more than one address. The system creates requests from these emails. Notifications for requests created using an address in the Aliases tab, are sent to the main email address and cc'd to the alias address that was used to create the request.

When one or more alias email addresses have been created for a Customer, a Send To field is displayed on the Customer Information screen, which allows the most appropriate email address to be set as the default address applied to Customer correspondence. When the Send To field is set to an alias address the Primary Email address is not included in the cc list, unless specified in the request Information tab cc list.

To add an alias email address:

- 1. Select User>Customers
- 2. Click on the Customer name

The Customer Information screen appears.

- 3. In the Aliases tab click Edit
- 4. Click Add
- 5. Enter an alias email address
- 6. Click Save.

When an alias email address has been created for a Customer, a Send To field is displayed on the Customer Information screen, which allows the alias email address to be set as the default address applied to Customer correspondence.

Customer Inform	nation				
Contact	Aliases	Items	Requests	Contracts	
Edit					Jeff Lag
🖾 Email					à
		0 - 0 of 0 Results			
					Done

To remove an alias email address, in Edit mode, tick the checkbox next to the relevant email address and then click Remove.

1.8.4 Items Tab

The Items tab lists the Items owned by the Customer. To access Shared Items, tick the Include Shared option. To view or edit the Item details, select the Item Number hyperlink. Select the Excel button to output the Item List to Excel format.

Cu	Customer Information									
	Contact	Aliases	Items	Requests	Contracts					
	Edit	Excel			Jeff Lag					
				Include Shared	Display: 10 💌					
⊠	Item No.	Item Type		≣ Team	≣					
			0 - 0 of 0 Results							
					Done					

To add an Item:

- 1. Select User>Customers
- 2. Click on the Customer name

The Customer Information screen appears.

- 3. In the Information tab, click Edit
- 4. In the Item tab, click Add

The Find Item editor is displayed.

5. Search for the relevant Item

For details regarding an advanced Item search see: Advanced Search.

6. Select the Item # hyperlink

The selected Item will be associated with the Customer.

- 7. Click Save
- 8. Select Done

1.8.5 Requests Tab

The Requests tab is visible after the Customer has been created. It lists all requests related to the Customer and allows the User to create new requests for the Customer. To view details of a request, select the Task # or Problem Report hyperlink. To create a request for the Customer, select the New button.

Customer Information			
Contact Aliases	Items	Requests Contrac	ts
Excel New			Jeff Lag
		Filter: All Tasks [sys]	Display: 10
Task# ₹ Process ≣ Date	■ Status ■ Technician	Problem Report	
	0 - 0 of 0 Results)	
			Done

1.8.6 Contracts Tab

The Contracts tab displays a Customer's current contract status. A Customer can be assigned an SLA or, when Billing is enabled, a Contract. A Customer can only have one active Contract, but contracts can be queued within the Contract >Customer tab, as required.

When Contracts are in use throughout the application, the timeframe set for Service Levels and Contract history are displayed within the Contracts tab. It is also possible to assign a Service Level and/or Contract within the Contracts tab.

Cust	tomer Infor	rmat	tion							
	Contact		Aliases		Items		Reque	ests Col	ntracts	
	Edit									Andy Fair
	Cont	tract								
	Service L	evel	Warranty							
	Contra	act#	No Contract A	ssigned						
								Custo	mers Ite	ms
	Contract #	Ţ٦	Гуре	SLA		Invoice	#	Start Date	End Date	≣
	3	F	Per Customer	Warranty		100004		01/05/16 12:01	01/06/16 11:0	09
					1	- 1 of 1 Res	sults			
										Done

To create a new Contract for a Customer:

- 1. Select User>Customers
- 2. Select the Customer Name
- 3. Move to the Contracts tab
- 4. Click Edit

The system will display the Add button in the Customers tab

Customer Information					
Contact	Aliases It	ems Requ	iests Co	ontracts	
Edit				Pa	aul Pedron
Contract					
Service Level					
Contract # No Con	tract Assigned				
			Cust	omers Item	15
Contract #	SLA	Invoice #	Start Date	End Date	
		0 - 0 of 0 Results			
				Do	one

5. Click Add

The SLA options are displayed.

6. Select a Service Level from the list

When selected, the screen expands to display the Time, Start and End date fields.

Customer Information	1					
Contact	Aliases	Items	Requests	Contracts		
Contract						
Invoice Number	100032					
Service Level	SLA					
	Incident		•			
	Priority	Response Time	Restoration Time	Resolution Time	24 x 7 support	Alert
	Urgent	6 Hours	12 Hours	24 Hours	Yes	None
	High	12 Hours	24 Hours	48 Hours	Yes	None
	Medium	18 Hours	36 Hours	72 Hours	Yes	None
	Low	24 Hours	48 Hours	96 Hours	Yes	None
Contract Type	Per Customer					
Time	Support Hour	s 💌				
Support Hours						
Start Date	01/06/16 14:1	5				
End Date	01/06/17 23:5	9				
Notes						
Price	\$100.00					
Tax	\$0.00					
Taxable						
Total Cost	\$100.00					
				Cano	el	Save

7. Define the Contract Time period

For the Per Customer Contract Type the Time Period for the Contract can be defined:

If *Subscription* is selected, the Start and End Dates are automatically completed by the system, but can be edited if required.

If *Time Limited Subscription* is selected, the Support Hours field is displayed and the number of support hours purchased by the Customer should be entered. Also, the Start Date and End Date fields should be completed manually, entering the length of time for the subscription period.

If *Support Hours* is selected, the number of support hours purchased by the Customers should be entered

If *Support Hours By Month* is selected, define the number of Support Hours covered per month and on which day of the month the Contract is designated as the Rollover Day. The Start Date and End Date fields are automatically completed as an annual contract subscription but can be edited, as required.

If the Start Date is set as a future date, the Pending Contract status is assigned. See Pending Contracts.

- 8. Click Save
- 9. Click Next to continue

The system reverts to the Contracts summary screen.

Customer In	forma	ation									
Contact		Aliases		Items	Re	equests		Contracts			
										Michael Ar	igelo
Co	ntract										
Service	e Level	Warranty									
Con	ntract #	2 😢									
Contrac	ct Type	Subscription									
Inv	voice #	100002									
Sta	irt Date	01/05/16									
En	nd Date	01/05/17									
E	Expires	1 Year 0 Day									
					Custo	omers		Items		Audit	
⊠ Contra	act# ≡	7 Туре	SLA	≣ Invo	ice #	Start Date	I	End Date	I	Add	
2		Per Customer	Warranty	100	002	01/05/16 11	:59	01/05/17 23	3:59	Delet	•
				1 - 1 of 1 Res	ults						
								Cancel		Save	

10. Click Save. Click Done.

To delete a current Contract, as a Supervisor User, select Cancel next to the Contract Number. Alternatively, to delete a current or queued Contract, within the Contract>Customers tab check the field next to the relevant Contract # and select the Delete button.

The Items tab within the Customer>Contracts screen is used to list all the Items with a Contract that are owned by a Customer.

The list of requests with the time recorded against the Contract is displayed within the Audit tab. The Summary view displays the list of requests with total number of Notes and Time allocated to the Contract, while the Detail view includes a breakdown of all Notes and the associated time related to each request.

Searching for Customers

To search for Customers within the Users>Customers tab:

- 1. Go to Users>Customer
- 2. Select



3. Enter any known Customer details to find a specific Customer or to generate a Customer List based on date of creation, enter a Before or After creation date for the Customer.

Customer Search	
First Name	
Last Name	
Email	
Email Alias	
Phone	
Org. Unit	
Country	~
Created Before	
Created After	
Role	×
Account Status	Active ODeleted
Account Type	OLDAP/ADS OZENworks Service Desk OAII
	Cancel Clear Search

4. Click Search.

The results will be displayed in a table with the Customer Name and contact information.

5. Click on the Customer Name to open the Customer Information module or select the Email Address to send an email.

NOTE: To search for a Customer who has been deleted in the system, conduct the search within the Administrator Portal.

1.9 Service Level Management

The goal of Service Level Management is to maintain and improve the alignment between business activities and IT service quality. This is achieved through the cycle of:

- 1. Agree on service level expectations and record them in Service Level Agreements (SLAs)
- 2. Monitor the service provided
- 3. Report actual service delivery results
- 4. Review IT service delivery results in relation to the SLA, and adjust accordingly.

A Service Level Agreement (SLA) is a formal, negotiated contract that outlines service level expectations and clarifies responsibilities between the Service Desk and its Customers. When unacceptable levels of service are noted throughout the service cycle, action can be taken to re-align expectations with actual service delivery results.

Within the system, SLAs are specific and time-based in order to help monitor and report on performance. They can be applied to any of the following elements within the application:

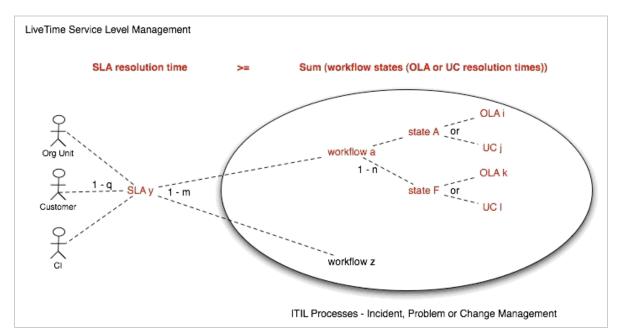
- Customers
- Organizational Units
- Items.

NOTE: Only Users assigned with the Service Level Management Role can create or modify SLAs.

SLAs are incorporated in the support process when a new Workflow is created. An SLA is assigned to a Workflow and specifies the expected resolution time for a request. To successfully meet SLA expectations, the system allows the Service Desk to associate each Workflow State of a request with an Operational Level Agreement (OLA) or Underpinning Contract (UC).

An OLA is an internally negotiated document that identifies the service level expectations between the Service Desk and the Technical Support Teams. An Underpinning Contract enables the Service Desk to monitor and maintain control of requests that are forwarded to external service and support providers.

To ensure an SLA resolution time is met, the sum of the resolution times for each of the OLAs or Underpinning Contracts assigned to a Workflow Lifecycle must be less than or equal to the SLA resolution time.



1.9.1 SLAs in Action

When a request is logged with the Service Desk, the request adopts the SLA that has been assigned to either the Item, Customer or Organizational Unit. If an SLA has not been allocated to any of these elements, the SLA assigned as the system default within the Admin>Setup>Privileges>Requests tab will be automatically applied to the request.

The SLA allocated to the request determines the Workflow options made available for the lifecycle of the request. The Workflows listed are assigned the same SLA as the request. Before saving the request, the User can adjust the system assigned Workflow if more than one option exists.

Refer to SLM Configuration for more detailed information.

1.9.2 Service Tab

Use this section to create and modify SLAs to provide request lifecycle management capabilities. This section can also be used to create and customize OLAs and UCs. After the individual components of the SLAs have been configured, Workflows can be created and assigned the service level management functionality.

The system also provides SLA-compliance reporting, allowing Managers to define and track availability and performance objectives that reflect business goals. SLAs are used across all processes, and are assigned when requests are created.

Within the Service Tab Users can:

- Create SLAs
- Create OLAs
- Create Underpinning Contracts
- Define Workflows
- Define Breach Codes
- Maintain Contracts (when enabled)

1.10 Service Level Management Configuration

1.10.1 Introduction

A Service Level Agreement (SLA) is a business contract that specifies service level expectations around critical infrastructure and business services. Typically, they refer to response, restoration and resolution targets that the Service Desk needs to meet.

1.10.2 OLAs and UCs

Operational level agreements (OLAs) are similar to SLAs, except they communicate internal teambased expectations within specific stages of the Workflow process. Similarly, the obligations of external service providers are specified using Underpinning Contracts (UCs). Unlike an OLA where an appropriate Team Technician is assigned responsibility for servicing a request, it is the responsibility of a Service Level Manager to monitor the performance of the external service provider in relation to the business's expectations as defined in UC Workflow States.

1.10.3 Workflows and Workflow States

Workflows consist of an Entry State, one or more Transitional States and Exit States. They define the sequence of steps that Service Desk staff can follow when managing customer requests. Within the system, any number of Workflows can be customized for the Incident, Problem, Change, Release and Service Request Management Processes. Each step, or Workflow State, defines the activity, and if relevant the OLA, with Default Team, or UC required to successfully process the request at that step. Only after the nominated Team Technician has successfully concluded the activity does the request get routed to the next appropriate Workflow State. The Workflow is deemed complete once the request enters an Exit Workflow State.

1.10.4 Escalation

When a request is created it is assigned an SLA, and based on the assigned SLA, a Workflow and Team. Based on the configuration of the assigned Team, a Technician or System User is allocated the responsibility of the task. Within Teams, escalation layers are configured for manual or automated routing of requests. Manual routing through the escalation layers is triggered by a Technician in the request Information screen. Automatic routing through escalation layers is driven by the request's assigned priority relative to the associated SLA response, restoration and resolution targets. For each target one or more percentage triggers can be created for automated reminders, warnings or escalations. When the request is in a Service Level active stage of the Workflow the system monitors the percentage of time elapsed relative the SLA triggers, and when percentage targets are met the triggers are activated. If the SLA response, restoration or resolution time is breached, the request is automatically escalated.

1.10.5 SLAs and Workflow

The Service Level Management module allows service level expectations to be mapped to end-toend business processes. In so doing, the system performs the following Service Level Management validation:

SLA resolution time >= Sum (Workflow States (OLA or UC resolution times)

When validating Workflows, the system disallows adding States to a Workflow that will force the sum of the Workflow State resolution timers for OLAs and UCs to breach the SLAs resolution timers. In such situations, the system will warn the service level manager to either increase the SLA resolution targets or select a more appropriate UC or OLA that will fall within the SLA targets.

1.10.6 Creating a Custom Workflow

User Portal

- 1 Log into Service Desk as a supervisor.
- 2 Click Service > Workflows > New.

- **3** Edit the newly created workflow to include entry, exit, and intermediate steps and save the information.
- 4 Create a new SLA by navigating to Service > SLA > New. Or, you can modify the existing SLA and add the newly created workflow.

1.10.7 Configuring SLM in the system

Before requests can be processed using SLM, a Supervisor typically needs to perform the following sequence of configuration steps:

- 1. Define Technicians. Set Roles & Process permissions (Users > Users)
- 2. Define service level managers (Users > Users)

To become a service level manager a User must be assigned the Service Level Management Process

- 3. Establish business SLAs
- a. Specify service level manager
- b. Availability %
- c. Warning and breach notifications
- d. Set priority targets
- e. Specify blackout periods
- 1. Setup OLAs
- a. Specify service level manager
- b. Set service targets
- 1. Setup Underpinning Contracts (UCs)
- a. Specify service level manager
- b. Specify Vendor
- c. Set service targets
 - 1. Define Workflows
- a. Name the process and associate it with one of the ITIL processes

b. Optionally modify default open and close states { you might need to come back to this once all states have been defined}

- c. Specify SLA for the Workflow from Step 3.
- d. For each Workflow State, specify:
- i. Is the Workflow State active?
- ii. Is the State an entry or exit state?

iii. The Contract Type: None / OLA / UC

- 1. Specify an OLA if the OLA Contract Type is set.
- 2. Select a default Team, that has been assigned the OLA.
- 3. Specify a UC, if the UC contract type has been selected.

iv. Should the SLA timer continue counting time when the request has entered this State?

v. Should the State be used to measure SLA restoration or resolution time (for reporting purposes only)

vi. Specify relevant next / previous States to define the end-to-end Workflow.

- 1. To prevent the SLA target from being breached, the contract time will be calculated when an OLA or UC is assigned to a State.
- e. Update 6b, if required.
- 1. Define the Teams
- a. Specify Technicians
- b. Specify OLAs
- c. Specify Workflows
- d. Define escalation layers or work groups
- 1. Make any modifications to the Workflow State
- a. Specify a default Team to provide support for specific States {review 6diii 1a)

1.10.8 Applying SLM to request creation and management

After SLAs, Workflows and Teams have been defined, the Service Desk is able to use the system to efficiently process Incident, Problem, RFC and Service Requests according to organizational standards and procedures.

The following steps outline the process of generating and managing an Incident in the system:

- 1. Within the Operations > Incident tab select the New button:
- a. Assign a Customer
- b. Select an Item, which include Services within Service Catalog
- c. Profile the request
- i. Select a Classification
- ii. Enter Description of the request
- iii. Complete any custom fields

d. If the proactive analysis option is enabled, proposed solutions will be available within the Analysis Tab. If a relevant Solution is proposed, apply the Solution to close the request. Otherwise, click 'Next' to move to the Summary tab of the request screen.

1. In the Summary Information screen, confirm:

a. SLA

b. Workflow

i. A list of Workflows options is derived based on the SLA selected

ii. If a Workflow has not been assigned to the SLA, then the system default Workflow is assigned to the Incident

c. Team

i. A list of Team options will be derived based on the Workflow selected

ii. If a Team has not been assigned to the Workflow, then the CI's default Team is assigned to manage the Incident

- d. Technician
- e. Request Urgency / Impact / Priority
- f. Notifications
- g. Workflow State (= Status)
- h. Add Note(s), and apply private/public visibility and Customer email distribution options
- i. Upload attachments
- j. Access Audit trail details

k. Access Impact information (i.e., Service Targets, SLA breaches, Item Relationships, Planned Outages, Contract Monitor)

- 1. Perform analysis within the Analysis tab
- a. Allows the system to recommend a proposed Workaround or Solution
- b. Search Workarounds / Solutions
- c. Raise new Workaround / Solution
- d. Raise a new Problem and link it to the request
- e. Raise a new RFC and link it to the request

f. If the request is related to other Incidents, Problems, Change or Service Requests, view all related requests within the Related sidebar in the Summary screen.

- 1. Save the request
- 2. Group similar or related requests using the Link option and manage the collective from the Group tab or selecting the Group # link in the List View, if this option has been defined for the customized view.

1.11 Breach Codes

An SLA breach occurs when a User fails to meet service level targets. When a breach occurs, the User assigned to the request receives an Alert, prompting them to explain the cause of the breach. The User is given the option to select a breach code and provide an explanation for the breach within the Service Level Breach filter view of the Impact tab of the breached request.

Impact		Audit Trail
Display	Sei	vice Targets
	Se	vice Level Breaches
Resolution	Se	vices Affected
Time	Est	imates
84 Hours	Co	ntract Monitor

Breach codes are defined by a Supervisor User within the Service > Breach Codes tab.

To create a breach code:

- 1. Go to Service> Breach Codes
- 2. Select New

Breach Coo	des
Breach Code	
Description	
	Cancel Save

- 3. Enter a Breach Code label
- 4. Enter a Description of the breach
- 5. Click Save.

The System column in the List View includes Yes to indicate a Code that can be edited.

Breach Codes			
New)		
Name	🛓 System	Description	
Technical Problem	Yes		
		1 - 1 of 1 Results	

1.12 Contracts

(Contracts menu option is available when Enable Contracts is set to Yes in Admin>Setup>Billing>Setup.)

Contracts within the system allow service and support organizations to manage their Customer support subscriptions relative to the type of service they provide.

For Customer requests to be addressed, all requests must be associated with a valid contract. A Contract consists of a Service Level Agreement (SLA) and a Service Delivery Period (start and end date). A Service Delivery Period is the duration of the contract, such as a month or a year. In the case of individual request Contracts, the Service Delivery Period terminates when the request is closed.

Contracts can be used as a stand-alone function or with the Invoices facility. Service Desks that charge Customers for the service and support they provide, can enable the Contracts and Invoices functionality. Invoice creation within the system is on a per Contract basis.

1.12.1 Contract Types

The Contract Types available within the system include:

- Per Request covers the period of time for which the request is open and worked undertaken
- Per Item, Customer or Org. Unit covers the Item, Customer or Org.Unit regardless of the number of requests logged against the Item or by the Customer or Org. Unit but can be created on the following basis:
 - Subscription a contract that covers a specified period of time
 - Time Limited Subscription a contract that covers either a specified period of time or number of support hours, whichever limit is reached first
 - Support Hours a contract that defines the number of support hours covered
 - Support Hours by Month a contract that covers a total number of support hours purchased for a defined timeframe and allocated on a per month basis.

* 200

1.12.2 Contracts Option

Users must also be assigned the Service Level Management Process within their User account, in order to view the Service Level tab. The Contracts option within the Service tab is visible when Billing>Contracts is enabled by the Administrator. A list of all Contracts generated in the system is listed here and can be viewed through a selection of Filter options.

Contracts								
	📙 PDF	Excel			Filter:	Active Item Contracts [sys]	Display:	10 💌
Contract # ₹	SLA	■ Object	Туре	Contract End Date	≣ Hou	Active Customer Contracts [sys] (Active Item Contracts [sys]	Org.Unit	
				0 - 0 of 0 Results		Active Org Unit Contracts [sys] All Agreements [sys] All Customer Contracts [sys] All Utem Contracts [sys] All Item Contracts [sys] All Pending Contracts [sys] Request Contracts [sys]		

The following filter list views are provided:

Contracts Filter Views	Description			
Active Customer Contracts	Displays a list of all valid contracts for Customers.			
Active Item Contracts	Lists all valid Item Contracts.			
Active Organization Unit Contracts	Displays all valid Organizational Unit Contracts.			
All Agreements	Lists all Contracts in the system regardless of status.			
All Customer Contracts	Lists all Customer Contracts in the system regardless of status.			
All Item Contracts	Displays all Item Contracts in the system regardless of status.			
All Organizational Units	Lists all Organizational Unit Contracts in the system regardless of status.			
All Pending Contracts	Displays all Contracts with a Pending Status that are waiting to be processed.			
Request Contracts	Lists all Contracts created on a Per Request basis.			

1.12.3 Contract Creation

The Contracts option within the Service tab only provides the list view of Contracts generated in the system. Contracts are created in any of the following screens:

- Item >Costs >Contracts tab (See: Costs Tab and Create a Contract.)
- Customer>Contacts tab (See:Create a Contract.)
- Organizational Unit >Contracts tab (See:Create a Contract.)
- Finance>Invoices tab (See: Contracts and Invoices)
- Request >Contract tab for requests with a Pending No Contract status. (See: Create a Contract.)

1.12.4 Contract Fields

Contract Inform	ation				
Edit					Contract # 18
Details					
Contract Type	Perltem				
Item	Email Service (Email Services)				
Start Date	01/13/16 10:12				
End Date	01/13/17 23:59				
Expires	12 Months 1 Day				
SLA	SLA				
Invoice #	100041				
Ownership					
Customer	Jason Blackett				
				Attachment	Audit
File De	scription		Size	Date	Ŧ
		0 - 0 of 0 Results			
					Done

A Contract in the system includes the following fields in the Contract Information screen:

Contract Details	Description				
Contract Type	Subscription or a contract that just covers the current request.				
Item, Customer or Org. Unit	For Subscription contracts, this is the Item, Customer or Org. Unit covered by the Contract. For Per Incident contracts this is replaced by a request ID number.				
Start and End Date	Subscription Contracts default to a one year contract but can be amended.				
Expires	The number of days until the Contract expires.				
Hours Purchased	The number of hours purchased for a Time Limited Subscription or Support Hours Contract.				
Time Remaining	The amount of time remaining for the Time Limited Subscription or Support Hours Contract.				
SLA	The SLA applied to the Contract.				
Invoice #	The Invoice number used to create the Contract. (This is displayed when Invoices are enabled in the system.)				
Ownership					
Customer	The Customer covered by the Contract.				

1.12.5 Attachment Tab

The Attachment tab allows the User to upload documentation related to the Contract. This facility provides a centralized repository for storing information and obligation details related to the Contract.

1.12.6 Audit Tab

The list of requests with the time recorded against the Contract is displayed within the Audit tab. The Summary view displays the list of requests with total number of Notes and Time allocated to the Contract, while the Detail view includes a breakdown of all Notes and the associated time related to each request.

1.12.7 Contract Validation Process

When a request is created and Contracts are enabled, the system validates the contract status for the Customer, Organizational Unit or Item. As part of the contract validation process, the system selects the first element found on this list:

- 1. Customer (with a valid contract)
- 2. Org Unit (with a valid contract)
- 3. Item (with a valid contract)
- 4. No contract found, then either a Per Request or Per Item Contract can be created by selecting the Pending No Contract hyperlink and adding a Per Request or Per Item Contract.

1.13 Contract Assignment

Contracts can be assigned to an Item, Customer, Organizational Unit or on a per Incident basis. The following content regarding creating a Contract, assumes that within the system Setup, the Billing>Contracts option is enabled.

When a request is created, the system will check if the Customer has a valid contract. If the Customer is not under contract, the system will check if the Org. Unit is covered, and if not, it will assess the Item contract status. If no contract is in place, the request will be assigned a "Pending - No Contract" Status and locked down until a Contract is created. See: Create a Contract.

An Item, Customer and Organizational Unit can only have one active contract in place at a time but multiple contracts can be queued by assigning a Start Date that falls after an existing Contract's end date. Queued Contracts are visible within the Item, Customer or Org Unit's Contract tab identified by the contract number generated at the point of creation, if Invoicing is not enabled in the system. If Invoicing is enabled in the system and an SLA cost is associated with the contract, a contract number is generated when the invoice payment is processed by a Finance User.

1.13.1 Customer Contracts

Customer contract history is stored within the Contracts tab of the Customer Information screen. All contracts, valid and expired, are listed within the Customer and Items tab of the Contracts screen.

To create a new contract for a Customer:

- 1. Select User>Customers
- 2. Select the Customer Name
- 3. Move to the Contracts tab
- 4. Click Edit

The Add and Delete buttons become available with the Contracts>Customer tab.

Customer Informa	ation			
Contact	Aliases	Items Contrac	ts	
Edit				Michael Angelo
SLA Details				
Service Level				
Contract #	No Contract Assigned			
			Customers	Items
Contract # 🐺 1	Type SLA	E Start Date	End Date	≣
		0 - 0 of 0 Results		
				Done

5. Click Add

(If Invoices are enabled in the system, an Invoice number will be automatically generated and assigned to the Contract).

6. Select a Service Level from the list

When selected, the screen expands to display start and end date fields.

Customer Information							
Contact	Aliases	Items	Contracts				
Contract							
Service Level	Warranty						
	Priority	Response Time	Restoration Time	Resolution Time	24 x 7 support	Alert	
	Urgent	6 Hours	12 Hours	24 Hours	Yes	None	
	High	12 Hours	24 Hours	48 Hours	Yes	None	
	Medium	18 Hours	36 Hours	72 Hours	Yes	None	
	Low	24 Hours	48 Hours	96 Hours	Yes	None	
Contract Type	Per Customer						
Time	Subscription	-					
	Subscription						
Start Date	Time Limited S						
End Date	Support Hours Support Hours						
				Canc	el	Save	

7. Define the Contract Time period

For the Per Customer Contract Type the Time Period for the Contract can be defined as one of the following:

Subscription if selected, the Start and End Dates are automatically set to year from the date of creation, but can be edited if required.

Time Limited Subscription if selected, the Support Hours field is displayed and the number of support hours purchased by the Customer should be entered. Also, the Start Date and End Date fields should be completed manually by entering the length of time for the subscription period, or the system will default to entering a year from the date of creation.

Support Hours if selected, the number of support hours purchased by the Customers should be entered.

Support Hours by Month if selected, set the number of hours purchased per month and define which day of the month contract is to rollover to start the new month. The Total Support Hours will automatically be calculated based on the Start and End Dates set for the Contract.

(If a Contract is forward dated with a Start Date set in the future, the Pending Contract status is assigned. See Pending Contracts.)

- 8. Add any relevant Invoice Notes
- 9. Check the Taxable box, if the Contract is to be taxed
- 10. Click Save

If invoices are enabled and a cost is associated with the SLA, a Warning message is displayed prompting that the invoice needs to be processed by a Finance User before the contract will become available in the system. The invoice can be processed in the Finance >Invoices tab.



The invoice has been generated against this customer with status "Pending Unpaid". Technicians will not be able to work with this customer until the invoice has been paid.

11. Click Next to continue

The system reverts to the Contracts summary screen

Custo	Customer Information							
	Contact	Aliases	Items	Contracts				
						James Stewart		
	SLA Details							
	Service Level	Warranty						
	Contract #	No Contract Assig	ned					
					Customers	Items		
Ę	Contract #	₹ Туре	SLA	E Start Date	≣ End Date	Add		
	4	Per Customer	Warranty	01/04/16 22:33	01/04/16 22:34	Delete		
	1 - 1 of 1 Results							
					Cancel	Save		

12. Click Save. Click Done.

Customer Informa	ation						
Contact	Aliases		Items	Contracts			
Edit							James Stewart
SLA Details							
Service Level	Warranty						
Contract #	4						
Contract Type	Subscription						
Start Date	01/04/16						
End Date	01/05/17						
Expires	1 Year 1 Day						
				Customers	Items		Audit
Contract # 👳 1	Гуре	SLA	≣	Start Date	End Date	≣	
4 1	Per Customer	Warranty		01/04/16 22:33	01/05/17 10:29		
			1 - 1 of 1 Res	ults			
							Done

13. NOTE: If Invoices are enabled, a new invoice is automatically saved within the Finance>Invoices screen for the newly created Contract. If payment is required, a Pending Invoice Number is displayed and once processed, the Contract details will be included in the Customer Information>Contracts>Customer tab.

The Items tab within the Customer>Contracts screen is used to list all the Items with a Contract that are owned by a Customer.

To delete a current Contract, as a Supervisor User, select Cancel next to the Contract Number. Alternatively, to delete a current or queued Contract, within the Contract>Customers tab check the field next to the relevant Contract # and select the Delete button.

1.13.2 Organizational Units Contracts

Organizational Units' Contract history is stored within the Contracts tab of the Org. Unit Information screen. All Contracts, valid and expired, are listed within the Org. Unit, Customer and Items tab of the Contracts tab.

NOTE: To assign a Contract to an Org Unit, a Primary Contact must be nominated for the Org Unit or the system will prompt the User to assign a Primary Contact during the Contract assignment process. This means, prior to creating the Contract assign at least one Customer to the Org Unit and then designate a Customer as the Primary Contact.

To create a new Contract for an Organizational Unit:

- 1. Select User> Organizational Units
- 2. Select the Organizational Unit's Name
- 3. Move to the Contracts tab

g. Unit Inforn	nation							
Details	Cust	omers	Technicians	Rooms	Items	Reques	sts	Contracts
Edit								Electrical Eng
SLA Deta	ils							
Service Le	vel							
Contrac	t # No Contra	act Assigned						
				Items	Org Unit	Customers	5	Requests
	Contract #	₹ Туре	SLA	≣ Start	Date 🗮 E	End Date	≣	
				0 - 0 of 0 Results				
								Done

4. Click Edit

The Add and Delete buttons become available with the Contracts>Org Unit tab.

5. Click Add

If a Primary Contact has not been assigned to the Org Unit a system prompt will notify the User to create a Primary Contact. See: Primary Contact.

6. Select a Service Level from the list

When selected, the screen expands to display start and end date fields.

Details C	ustomers	Technicians	Rooms	Items	Red	quests	Contra
Contract							
Service Level	Warranty						
	Priority	Response Time	Restoration Time	Resolution Time	24 x 7 suppor	t Alert	
	Urgent	6 Hours	12 Hours	24 Hours	Yes	None	
	High	12 Hours	24 Hours	48 Hours	Yes	None	
	Medium	18 Hours	36 Hours	72 Hours	Yes	None	
	Low	24 Hours	48 Hours	96 Hours	Yes	None	
Contract Type	Per Org Unit						
Time	Subscription	-					
	Subscription						
Start Date							
End Date	Support Hours						
					Ca	incel	Save

7. For the Per Org Unit Contract Type the Time Period for the Contract can be defined as one of the following:

Subscription if selected, the Start and End Dates are automatically set to year from the date of creation, but can be edited if required.

Time Limited Subscription if selected, the Support Hours field is displayed and the number of support hours purchased by the Customer should be entered. Also, the Start Date and End Date fields should be completed manually by entering the length of time for the subscription period, or the system will default to entering a year from the date of creation.

Support Hours if selected, the number of support hours purchased by the Customers should be entered.

Support Hours by Month if selected, set the number of hours purchased per month and define which day of the month contract is to rollover to start the new month. The Total Support Hours will automatically be calculated based on the Start and End Dates set for the Contract.

(If a Contract is forward dated with a Start Date set in the future, the Pending Contract status is assigned. See Pending Contracts.)

- 8. Click Save
- 9. Click Next to continue

The system reverts to the Contracts summary screen, if the contract is forward dated and another contract is not already active, the Enable Contract option button will be available. Select this button if the contract is to commence prior to the set Start Date. Alternatively, other contracts can be queued for the Org Unit by selecting the Add button.

Org. Unit Inf	ormation								
Details	cust	comers Te	chnicians	Rooms Ite	ms Requests	Contracts			
						Accounts Dept			
	Details								
Service	e Level Warranty	,							
Cor	ntract # No Contra	act Assigned							
Pending Cor	ntract # 5 Enable	Contract							
				Items Org Ur	it Customers	Requests			
			_						
	Contract #	₹ Туре	SLA	Start Date	End Date	Add			
	5	Per Org Unit	Warranty	02/02/17 12:10	03/02/18 23:59	Delete			
	1	Per Org Unit	Warranty	01/05/16 11:53	01/05/16 12:11				
	1 - 2 of 2 Results								
					Cancel	Save			

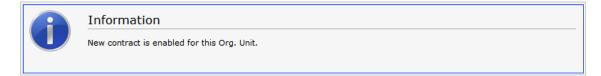
10. Click Save

To process the contract before the set Start Date select the Enable button.

Org. Unit Infor	mation						
Details	Cust	omers Te	chnicians	Rooms It	ems Requests	5 Contracts	
Edit						Accounts Dept	
SLA Deta	ails						
Service Le	evel Warranty						
Contrac	ct # No Contra	act Assigned					
Pending Contra	ct # 5 Enable (Contract					
				Items Org (Jnit Customers	Requests	
	Contract #	₹ Туре	SLA	E Start Date	≣ End Date	≣	
	5	Per Org Unit	Warranty	02/02/17 12:10	03/02/18 23:59		
	1	Per Org Unit	Warranty	01/05/16 11:53	01/05/16 12:11		
	1 - 2 of 2 Results						
						Done	
						Dome	

11. Click Done.

A success message is displayed.



Org. Unit Informa	tion							
Details	Custom	iers T	echnicians	Rooms	Items	Reques	ts	Contracts
Edit								Accounts Dept
SLA Details	:							
Service Level	I Warranty							
Contract #	ŧ 5							
Contract Type	Subscription							
Start Date	01/05/16							
End Date	03/02/18							
Expires	2 Years 1 Mo	onth 27 Days						
			Items	Org Unit	Customers	Requests		Audit
Ci	ontract #	🛙 Туре	SLA	≣ Start Da	te 🔳	End Date	≣	
5		Per Org Unit	Warranty	01/05/16	3 12:12	03/02/18 23:59		
1		Per Org Unit	Warranty	01/05/16	5 11:53	01/05/16 12:11		
				1 - 2 of 2 Results				
								Done

12. NOTE: If Invoices are enabled, a new invoice is automatically saved within the Finance>Invoices screen for the newly created Contract. If payment is required, a Pending Invoice Number is displayed and once processed, the Contract will be listed in the Org.Unit Information>Contracts>Org.Unit tab.

To delete a current Contract, as a Supervisor User, select Cancel next to the Contract Number. Alternatively, to delete a current or queued Contract, within the Contract>Org Unit tab check the field next to the relevant Contract # and select the Delete button.

The Items and Customers tab within the Org Unit>Contracts screen is used to list all the Items and Customers with a Contract that belong to the selected Org Unit.

1.13.3 Item Contracts

- 1. Select the Item Number within the Configuration>Item screen
- 2. Move to the Costs tab

The Contracts tab is visible in the bottom right corner of the screen

3. Click Edit

The Add and Delete buttons are made available within the Contracts tab

						Contracts
🛛 Contract #	च Туре	SLA	≣ Start Date	≣ End Date	≣	Add
		0 - 0	of 0 Results			Delete
			Delete	Disable	Cancel	Save

4. Click Add

(If Invoices are enabled in the system, an Invoice number will be automatically generated and assigned to the Contract).

Item Information		
Information	Details Costs Requests Relationships Outages	AMIE Snapshots
Contract	t	
Invoice Number	r 100016	
Service Level	el 🔽	
	Warranty	Cancel

5. Select an SLA from the drop-down option

The screen will display the SLA details and the Contract Type locked to Per Item.

Item Information							
Information	Details	Costs	Requests	Relationshi	ps Ou	tages	AMIE
Contract Invoice Number Service Level							
	Priority	Response Time	Restoration Time	Resolution Time	24 x 7 support	t Alert	
	Urgent	6 Hours	12 Hours	24 Hours	Yes	None	
	High	12 Hours	24 Hours	48 Hours	Yes	None	
	Medium	18 Hours	36 Hours	72 Hours	Yes	None	
	Low	24 Hours	48 Hours	96 Hours	Yes	None	
Contract Type	Per Item						
Time	Subscription	-					
Start Date End Date	Subscription Time Limited Support Hours Support Hours	s					
Notes							
	\$0.00						
	\$0.00						
Taxable							
Total Cost	\$0.00						
						Cancel	

6. Assign the Time period to be covered by the Contract:

If *Subscription* is selected, the Start and End Dates are automatically completed by the system, but can be edited if required.

If *Time Limited Subscription* is selected, the Support Hours field is displayed and the number of support hours purchased by the Customer should be entered. Also, the Start Date and End Date fields should be completed manually, entering the length of time for the subscription period.

If *Support Hours* is selected, the number of support hours purchased by the Customers should be entered.

If *Support Hours by Month* is selected, set the number of hours purchased per month and define which day of the month contract is to rollover to start the new month. The Total Support Hours will automatically be calculated based on the Start and End Dates set for the Contract.

(If a Contract is forward dated with a Start Date set in the future, the Pending Contract status is assigned. See Pending Contracts.)

- 7. Add any relevant Invoice Notes
- 8. Check the Taxable box, if the Contract is to be taxed
- 9. Click Save.

If Invoices are enabled in the system, an Invoice number will be automatically generated for the Contract and made available within Finance>Invoices. Payment will need to be processed by a Finance User before the Contract can be enabled in the system. If invoice payment is required before the contract can be enabled in the system the following Warning message is displayed:



10. Click Next

The Contracts information is only populated after the Invoice has been processed. To process the invoice, as a Finance User move to the Finance>Invoices tab. Once the relevant invoice payment has been processed the Contract details will be visible in the Costs >Contracts tab.

em Infor	mation							
Inform	nation	Details	Costs	Requ	lests Re	lationships	Outages	AMIE Snapshots
Edit		Duplicate	(岇 Print		Ite	em # srm-tst-nsd0	00c29485ca	a (Dell Latitude E6430)
	Contract							
Ser	rvice Level	Warranty						
	Contract #	7						
Cor	ntract Type	Subscription						
	Invoice #	100016						
	Start Date	01/05/16						
	End Date	01/05/17						
	Expires	1 Year 1 Day						
	Warranty							
	Expires							
A	vailability							
Avg R	Repair Time	N/A						
Avg T	lime To Fail	N/A						
								Contracts
Contract #	₹ Туре	e SLA	≣	Invoice #	Start Date	End Date	≣	
7	Perl	tem Warra	anty	100016	01/05/16 12:23	01/05/17 2	3:59	
6	Perl	tem Warra	anty	100013	01/05/16 12:19	01/05/16 12	2:19	
			1 - 2	of 2 Results				
								Done

The Costs tab provides a summary of the current Contract details. The Contracts tab within the Costs screen, lists all contracts that have been assigned to this Item.

To delete a current Contract, as a Supervisor User, select Cancel next to the Contract Number. Alternatively, to delete a current or queued Contract, within the Costs>Contract tab check the field next to the relevant Contract # and select the Delete button.

1.13.4 Per Request Contracts

When a request is created without a valid contract, the system automatically assigns the request a status of Pending - No Contract. The User can associate a contract to either the Item or request within the Contract tab of the request Information screen. A Request Contract is only valid for the life of the request. See: Create a Contract.

1.13.5 Contracts with Invoices Enabled

When the Invoices option is enabled within the application's setup and a Contract is being created, the system automatically generates a Contract Invoice. For the contract to become active in the system, a Finance User must process the invoice. If no cost is assigned to the Service Level (i.e., Warranty), the invoice is automatically processed and the contract is active in the system.

1.13.6 Canceling Contracts

If a Contract is no longer valid, it can be cancelled at any time during the contract period. A Supervisor can cancel the Contract within the Customer, Org, Unit or Item Contracts screen, by

selecting <u>Cancel</u> next to the Contract Number. Contracts that are canceled using this option will record the Reason for cancellation as the Supervisor User name who triggered the cancel action.

A User with the *Finance Role* can delete a Contract within the list view of the Service>Contracts tab.

To cancel a Contract, as a User with the Finance Role:

- 1. Go to Service > Contracts
- 2. Select a Contract ID to be canceled

The Contract Information screen will appear.

ntract Informati	on	
		Contract # 8
Details		
Contract Type	Per Org Unit	
Org Unit	ICT Dept	
Start Date	05/07/12 14:06	
End Date	06/07/12 23:59	
Expires	1 Month 1 Day	
SLA	Bronze	
Invoice #	100015	
	Cancel Contract	
Ownership		
Customer	Laura Morris	

3. Click the Cancel Contract hyperlink

A Cancel Reason text box is displayed.

4. Enter an explanation for canceling the Contract

Cancel Reason	
	Cancel Save

5. Click Save

The Cancel Reason is assigned to the Contract and the Contract Expiry date will be marked Expired.

6. Click Done.

NOTE: When a Customer Contract is cancelled and the Customer's associated Org Unit has an active contract in place, the Org Unit Contract details will be displayed within the Contracts>Service Level field of the Customer Information screen.

1.14 Create & Process a Request with Contracts enabled

When the Contracts or Invoices functionality is enabled and a request is created, the system will verify the service entitlement status of the Customer and if a valid contract is not in place, the new request is assigned a status of Pending - No Contract and locked until a valid contract is associated with the request.

In a Request Group where the Customer and Organizational Unit does not have a Contract, if an Item applied to a request has a Contract and another does not, a relevant status will be applied to each request. The User will be able to edit the request with a valid Contract, but the request without a Contract will be locked down to a Pending - No Contract status, until a valid Contract is applied to the request.



The Customer is automatically sent the NoContractCreateRequestSummary email when the request is saved with the Status. A reminder email can be sent to the assigned Customer by the Technician from within the Summary tab by clicking Section 2.

Two types of Contracts are used by the system, these include Per Item or Per Request Contracts. They are defined as follows:

- Per Request covers the period of time for which the request is open and work is done
- Per Item covers the Item, regardless of the number of requests logged against the Item and can be defined as:

Subscription - a contract that covers a specified period of time

Time Limited Subscription - a contract that covers either a specified period of time or number of support hours, whichever limit is reached first

Support Hours - a contract that defines the number of support hours covered

Support Hours by Month - a contract that covers a total number of support hours purchased for a defined timeframe and allocated on a per month basis.

1.14.1 Request with Per Item Contract

To create a Per Item Contract for a request within the Summary tab of the request:

1. Click the Pending - No Contract link

The Contract tab is displayed with Contract Type and Service Level drop-down options.

Service Request	mation
Customer	Contract Analysis Summary Notes Attachments Impact Audit Trail
Contract	
Contract Type	
Service Level	•
	Cancel

2. Select the Contract Type of Per Item

For the Per Item Contract Type the Time Period for the Contract can be defined as one of the following:

Subscription if selected, the Start and End Dates are automatically set to a year from the date of creation, but can be edited if required

Time Limited Subscription if selected, the Support Hours field is displayed and the number of support hours purchased by the Customer should be entered. Also, the Start Date and End Date fields should be completed manually by entering the length of time for the subscription period, or the system will default to entering a year from the date of creation

Support Hours if selected, the number of support hours purchased by the Customers should be entered

Support Hours by Month if selected, set the number of hours purchased per month and define which day of the month the contract is to rollover to start the new month. The Total Support Hours will automatically be calculated based on the Start and End Dates set for the Contract.

(If a Contract is forward dated with a Start Date set in the future, the Pending Contract status is assigned. See Pending Contracts.)

ervice Reque	st Informatio	on									
Customer	Contra	ct Ana	lysis Su	mmary	Notes	Attachments	Impa	ct	Audit Trail		
Contract											
Contract Type	Per Item	•									
Service Level	Warranty	-									
Time	Subscription	•									
Start Date	b1/05/16 13:2	27 🛗									
End Date	01/05/17 23:5	59 🛗									
SLA Price	\$0.00										
Taxable											
Targets	Priority	Response Time	Restoration Time	Resolution Time	24 x 7 support	Alert					
	Urgent	6 Hours	12 Hours	24 Hours	Yes	None					
	High	12 Hours	24 Hours	48 Hours	Yes	None					
	Medium	18 Hours	36 Hours	72 Hours	Yes	None					
	Low	24 Hours	48 Hours	96 Hours	Yes	None					
										Cancel	Save

3. Click Save

The maintenance contract is created.

- 4. Click Next to continue to create the request by defining the Classification and Description.
- **5. NOTE:** If Invoices are enabled, a new invoice is automatically saved within the Finance>Invoices screen for the newly created Contract.

1.14.2 Request with Per Request Contract

To create a *Per Request* Contract for a request within the Summary tab of the request:

1. Click the Pending - No Contract link

The Contract tab is displayed with Contract Type and Service Level drop-down options.

2. Select the Per Request Contract Type

(The SLA Price and Tax option box is displayed, if Invoices are enabled for the system.)

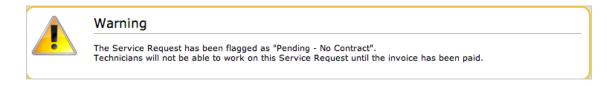
3. Select the SLA

(If required, check the box to indicate if tax is to be applied to the Invoice, which will be applied to the Invoice that is automatically saved within the Finance>Invoices screen when the newly created Contract is saved.)

Customer	Con	tract Ana	lysis Su	mmary			
Contract							
Contract Type	Per Reques	st 😫					
Service Level	Bronze	\$					
Group	Apply to u	incontracted					
SLA Price	\$20.00						
Taxable							
Targets	Priority	Response Time	Restoration Time	Resolution Time	24 x 7 support	Alert	
	Urgent	12 Hours	24 Hours	36 Hours	No	Action	
	High	24 Hours	26 Hours	60 Hours	No	Action	
	Medium	30 Hours	48 Hours	84 Hours	No	Action	
	Low	36 Hours	60 Hours	108 Hours	No	Action	

4. Click Save

(If the Service Level selected for the request has a cost associated with it, the request will be assigned with the status Pending - No Contract. Work cannot commence on the request until payment for the invoice is received.)



5. If the Service Level has no cost i.e., Warranty, the maintenance contract is created and work can commence on the request immediately

6. Click Done.

The screen defaults to the Summary tab.

1.14.3 Grouped Requests and Contracts

Contracts can be applied to all requests within an Incident Group when a *Per Request* contract is created within the Contract tab of a grouped request. The following options are available:

- Per Group applies the Contract to the Request Group as a whole and assigns a single charge for the Contract. On the associated Invoice, if relevant, the SLA Price is distributed evenly across each Request line-item
- Per Request applies the Contract to the Request Group but assigns the SLA Price as an individual charge to each request within the Group. On the associated Invoice, if relevant, the SLA Price is applied to each request line-item.

Customer	Con	Ana Ana	lysis Su	mmary			
Contract							
Contract Type	Per Reque	st 😫					
Service Level	Bronze	(\$)					
Group	Apply to u	uncontracted					
Charge base	✓ Per Group		1				
SLA Price	Per Reque	st					
Taxable							
Targets	Priority	Response Time	Restoration Time	Resolution Time	24 x 7 support	Alert	
	Urgent	12 Hours	24 Hours	36 Hours	No	Action	
	High	24 Hours	26 Hours	60 Hours	No	Action	
	Medium	30 Hours	48 Hours	84 Hours	No	Action	
	Low	36 Hours	60 Hours	108 Hours	No	Action	

1.14.4 Processing an Invoice

If invoice payment for the SLA contract is required before the User can commence work on the request, the following system message is displayed:

Warning
The Service Request has been flagged as "Pending - No Contract". Technicians will not be able to work on this Service Request until the invoice has been paid.

When a request is flagged with this status, the Edit button will not be available within the Summary tab and a User assigned the Finance Role must process invoice payment before the request can be edited.

To process payment for an invoice see: Invoice Payment and Delivery

1.14.5 Invoice Cancellation

To cancel an Invoice for a request:

- 1. Select the Request # id
- 2. Select the Request with the Status Pending No Contract
- 3. Click the Cancel hyperlink in the Summary tab.

This will cancel the Invoice and change the request Status to Cancelled - Unpaid.

1.15 Operational Level Agreements (OLAs)

An OLA is an internally negotiated agreement that identifies the service level expectations between the Service Desk and the Technical Support Teams. OLAs are applied to Workflow States and allow the Service Desk to successfully meet service level expectations. This is achieved by associating an SLA to a Workflow and then assigning, where relevant, OLAs or Underpinning Contracts to separate stages of that Workflow. It should be noted that SLA targets for Response, Restoration and Resolution time must be greater than or equal to the combined OLA and UPC times for each of these targets, to ensure that service level breaches do not occur.

Workflow - Inci	ident Workflow	
Workflow	Lifecycle Status	
Status		
Name	Open - Restored	
Active State	● Yes ◎ No	
Entry Point		
Exit Point		
Has Notes		
Service		
SLA Active	Yes No	
SLA Restoration	Yes No	
SLA Resolution	© Yes ◎ No	
Contract Type	None OLA Outprinning Contract	
OLA		
OLAs	Available OLAs	Selected OLAs
	No OLAs available	None selected
Default Contract		

1.15.1 Details Tab

Creating an OLA

To create a new OLA:

- 1. Select Service >OLAs
- 2. Click New

OLA Editor							
Details	Targets S	States	Teams				
Details							
Name	New OLA						
Customer Timezone			Find Service Level N	lanager			
			First Name		Email		
Timezone	(GMT +5:30) New Delhi	-					
SLM			Last Name		Phone		
Name							
Email							0
				Can	cel	Next	

3. Enter a Name for the OLA

4. _____

OLA Editor	
Details	
Name*	The name to identify the OLA.
Review Date	Details are completed based on the Admin default settings but can be edited by the User. An Alert is sent based on the default days set in the Review SLA Alert field in Admin>Setup>Privileges>Requests.
Pause on SLA Holiday	**This option is only displayed if the 'Public Holidays' option has been enabled within the Administrator>Setup>Privileges>Technician tab.
	Enable this option, if the OLA is to be adjusted on designated Public Holidays, when an associated SLA has the Pause on Holiday option enabled. The Public Holidays are defined within the Administrator>Setup>Public Holidays screen and associated with requests via the assigned Technician and their associated Country.
Customer Timezone	When enabled, OLA times displayed within the Technician request view uses the Customer timezone.
Timezone	This is visible when Customer Timezone is not set and all SLA dates are calculated based on the Timezone set within this field. This is especially applicable for User Work Hours, Blackouts, which also impacts the SLA Reports.
SLM (Service Level Manager)	
Name	Use the Find Service Level Manager search option,
Email	to enter the contact details of the Manager who will monitor the performance of the OLA.

5. Adjust the Review Date, if necessary

(A reminder Alert will be sent to the SLM, based on the default days set in Admin>Setup>Privileges>Request.)

6. Tick the Customer Timezone option, if relevant

Apply this option if the User is to view OLA due dates using the Customer Timezone or complete the Timezone option.

7. Search and select a Service Level Manager.

A Service Level Manager (SLM) is a User that has been assigned with the Service Level Management Process.

- 8. Move to the Targets tab
- 9. Complete the following information:

10. _____

SLA Editor	
Targets	
Targets	<i>Common</i> : Select Common if the OLA is to apply across Incidents, Requests, Problems and Change Management.
	<i>Per Process</i> : If the OLA is specific to a Process, select Per Process and choose a Process displayed in the drop-down list.
Interval	Define if the time is to be calculated in Hours or Minutes.
Service Time	
Priority	Urgent, High, Medium and Low
Milestones	
Initial Response	The maximum time the Customer would wait from the point of request creation before receiving a Note update for a Technician. The Response trigger is stopped when a Note has been added to the request by the assigned Technician and an email is sent to the Customer. If the Response Time is reached, without a Note being added, the request will be escalated.
Restoration Time	The maximum time the Customer would wait from the time the request was created until a workaround or temporary fix has been implemented. The Restoration trigger stops by assigning the request a Workflow State that has to the OLA Restoration option set to Yes. By default, this Workflow State is Open - Restored.
Resolution Time	The taken time from the point of request creation until it the request is moved to a Workflow State with the OLA Resolution option set to Yes. Any of the default Workflow Exit States stop the Resolution Timer.
Notify Override	If the system is to override the default notification method set for a request when the Priority being edited is assigned to a request, check this option.
Notification Type	Set Email or SMS as the type of notification when the override action is applied to a Priority.
Alerts	
Reminder	Sends a reminder email to the Technician when the defined percentage of time elapses for a Response, Restoration or Resolution target that has not been met on a request. Can be set up to 200% of the OLA. Note, Alert intervals are not cumulative.

SLA Editor	
Warning	Sends a warning email to the Technician when the defined percentage of time elapses for a Response, Restoration or Resolution target that has not been met on a request. Can be set up to 200% of the OLA.
Escalation	Escalates the request to a higher escalation layer when the defined percentage of time elapses for a Response, Restoration or Resolution target that has not been met on a request. Can be set up to 200% of the OLA. It should be noted that the Service Level Manager is also notified when an OLA is breached.
Support	
24 x 7	Do not amend if the OLA is to apply 24 hours a day, 7 days a week.
Normal Support	Select if service hours are to be defined for the OLA. When checked, define the service hours by either selecting a template (Templates are configured by the Administrator in the Setup>Localization>Hours tab) or manually define the days and time by making selections within the drop-down lists.

11. Add one or multiple Warning Alerts, if required

NOTE: Trigger intervals are not cumulative

In the default OLA for Warranty, the Urgent default times of 6, 12 and 24, mean 6 hours for the Response stage, 12 hours for Restoration from initial creation, and 24 hours to reach the Resolution from initial creation.

1. Define the support hours

Within 24 X 7, if the OLA's urgent Initial Response field is set to six hours, and an urgent request that uses the OLA is created at midnight in the assigned Technician's time zone, those six hours will expire by 6:00 AM. This is the option to use if your support is staffed 24 hours a day.

Normal support ensure request timers do not run when Technicians are not available. For instance, if the support hours are 9:00 AM to 5:00 PM and the SLAs are as such, the urgent requests' timer would not start ticking until 9:00 AM the following business day and would expire at 3:00 PM.

- 2. Click Save
- 3. Click Done.

Now associate the OLA with a Team within the Service tab of the Team Information screen.

The OLA will also be available within the OLA options displayed when OLA is selected as a Contract Type option within the Workflow Status editor screen.

1.15.2 States Tab

The OLA States tab lists the Workflow stages that are assigned to the OLA.

1.15.3 Teams Tab

The Teams tab displays the Team Names and Processes that are assigned to the OLA.

Assigning an OLA to a Team

OLAs are assigned to Teams within the Service Tab of the Team Information screen, when Teams are created or edited. For more information about assigning OLAs to Teams, see Teams. To view OLAs associated with Teams, sort the User>Team List View using the OLA column header. The Lead Technician and ITIL Process supported by the Team are also displayed.

OLAs and Blackout Periods

If a request is assigned an OLA State and the request's SLA is in a Blackout Period, the OLA will adopt the SLA Blackout Period. This means that the OLA timers will stop until the Blackout Period has elapsed.

1.16 Underpinning Contracts

Underpinning Contracts (UCs) are used to manage support services provided to the Service Desk by external service providers. These Contracts ensure the external parties maintain their service obligations to the Service Desk, which ensures the Service Desk meets the SLA expectations of its Customers.

To successfully meet SLA expectations, the system allows the Service Desk to associate each Workflow State of a request with an Operational Level Agreement (OLA) or Underpinning Contract. It should be noted that SLA targets for Response, Restoration and Resolution time must be greater than or equal to the combined OLA and UC times for each of these targets, to ensure that service level breaches do not occur.

Workflow - Inci	ident Workflow
Workflow	Lifecycle Status
Status	
Name	bpen
Active State	● Yes ◎ No
Entry Point	
Exit Point	
Has Notes	
Service	
SLA Active	● Yes ◎ No
SLA Restoration	O Yes O No
SLA Resolution	© Yes
Contract Type	None OLA Olderpinning Contract
Underpinning Contract	
Underpinning Contracts	
Contracts	New UPC None selected
Default Contract	
Assign SLM	● Yes ◎ No

When a request moves into a State that is governed by an Underpinning Contract, for internal contract monitoring, the request can be assigned to a Service Level Manager. This allows the Manager to maintain control of the request and to easily follow up with the external service provider, if required.

1.16.1 Details Tab

Creating an Underpinning Contract:

To create an Underpinning Contract for use within a Workflow State:

- 1. Select Service>Underpinning Contracts
- 2. Click New

Underpinning Con	tract Editor			
Details	Targets States			
Details				
Name	New UPC			
Vendor	- G			
Customer Timezone		Find Service Level Mana	ager	
Timezone	(GMT -6:00) Central Time (US & C 💌	First Name	Email	
SLM Details		Last Name	Phone	
Name			1 Hono	
Email				0
				-
			Cancel	Next

3. Enter the Contract Name

UPC Editor	
Details	
Name*	The name to identify the UC.
Vendor	The name of the service provider supporting the contract. Select from the list or create a new Vendor.
Review Date	Details are completed based on the Admin defaul settings but can be edited by the User. An Alert is sent based on the default days set in the Review SLA Alert field in Admin>Setup>Privileges>Requests.
Customer Timezone	When enabled, UPC times displayed within the Technician request view using the Customer timezone.
Timezone	This is visible when Customer Timezone is not set and all UPC dates are calculated based on the Timezone set within this field. This is especially applicable for User Work Hours, Blackouts, which also impacts the UPC Reports.
SLM (Service Level Manager)	
Name	Use the Find Service Level Manager search option
Email	to enter the contact details of the Manager who will monitor the service provider's ability to meet their contractual obligations .

5. Select a Vendor from the drop-down list or click 💽 to enter new vendor details

6. Adjust the Review Date, if necessary

(A reminder Alert will be sent to the SLM based on the default days set in Admin>Setup>Privileges>Requests.)

7. Tick the Customer Timezone option, if relevant

Apply this option if the User is to view UC due dates using the Customer Timezone or define the UC Timezone.

- 8. Search and Select a Service Level Manager using the Find Service Level Manager field
- 9. Move to the Targets tab

Underpinnin	g Contract E	ditor					
Details	5 Ti	argets	States				
Details							
Targets	Common (Per Process					
Interval	Hours	Vinutes					
Service Time	Priority	Response Time	Restoration Time	Resolution Time	24 x 7 support	Alert	
	Urgent	6 Hours	12 Hours	24 Hours	Yes	None	
	High	12 Hours	24 Hours	48 Hours	Yes	None	
	Medium	18 Hours	36 Hours	72 Hours	Yes	None	
	Low	24 Hours	48 Hours	96 Hours	Yes	None	
					Cancel	Save	

10. Complete the following information:

11.

SLA Editor	
Targets	
Targets	<i>Common</i> : Select Common if the UC is to apply across Incidents, Requests, Problems and Change Management.
	<i>Per Process</i> : If the UC is specific to a Process, select Per Process and choose a Process displayed in the drop-down list.
Interval	Define if the time is to be calculated in Hours or Minutes.
Service Time	
Priority	Urgent, High, Medium and Low
Milestones	
Initial Response	The maximum time the Customer would wait from the point of request creation before receiving a Note update for a Technician. The Response trigger is stopped when a Note has been added to the request by the assigned Technician and an email is sent to the Customer. If the Response Time is reached, without a Note being added, the request will be escalated.

SLA Editor	
Restoration Time	The maximum time the Customer would wait from the time the request was created until a workaround or temporary fix has been implemented. The Restoration trigger stops by assigning the request a Workflow State that has to the UC Restoration option set to Yes. By default, this Workflow State is Open - Restored.
Resolution Time	The taken time from the point of request creation until it the request is moved to a Workflow State with the UC Resolution option set to Yes. Any of the default Workflow Exit States stop the Resolution Timer.
Notify Override	If the system is to override the default notification method set for a request when the Priority being edited is assigned to a request, check this option.
Notification Type	Set Email or SMS as the type of notification when the override action is applied to a Priority.
Alerts	
Reminder	Sends a reminder email to the Technician when the defined percentage of time elapses for a Response, Restoration or Resolution target that has not been met on a request. Can be set up to 200% of the UC. Note, Alert intervals are not cumulative.
Warning	Sends a warning email to the Technician when the defined percentage of time elapses for a Response, Restoration or Resolution target that has not been met on a request. Can be set up to 200% of the UC.
Escalation	Escalates the request to a higher escalation layer when the defined percentage of time elapses for a Response, Restoration or Resolution target that has not been met on a request. Can be set up to 200% of the UC. It should be noted that the Service Level Manager is also notified when an OLA is breached.
Support	
24 x 7	Do not amend if the UC is to apply 24 hours a day, 7 days a week.
Normal Support	Select if service hours are to be defined for the UC. When checked, define the service hours by either selecting a template (Templates are configured by the Administrator in the Setup>Localization>Hours tab) or manually define the days and time by making selections within the drop- down lists.

12. Add one or multiple Warning Alerts, if required.

Enter the percentage of time to elapse for each interval, which will trigger a Warning to be sent via email to the Service Level Manager when the specified percentage is reached.

NOTE: Trigger intervals are not cumulative

For example, the Urgent default times of 6, 12 and 24, mean 6 hours for the Response stage, 12 hours for Restoration from initial creation, and 24 hours to reach the Resolution from initial service request creation.

1. Define the support hours

Within the Targets tab of the Underpinning Contracts Editor screen the default support hours are set to 24x7.

For 24 X 7, if the UC's urgent Initial Response field is set to six hours, and an urgent request that uses the UC is created at midnight in the assigned Technician's time zone, those six hours will expire by 6:00 AM. This is the option to use if your support is staffed 24 hours a day. Normal support ensures request timers do not run when Technicians are not available. For instance, if the support hours are 9:00 AM to 5:00 PM and the SLAs are as such, the urgent requests' timer would not start ticking until 9:00 AM the following business day and would expire at 3:00 PM.

- 2. Click Save
- 3. Click Done.

1.16.2 States Tab

The Underpinning Contract States tab lists the Workflow stages that are associated with the Underpinning Contract. This association is made within the relevant States of the Workflow and cannot be edited within this screen. See: Workflows.

1.17 Incident and Problem Workflows

Workflows define the sequence of States to be followed by requests logged with the application. Within the system an unlimited number of Workflows can be configured for Incident and Problem Management.

When deployed, the system includes one fully customizable Workflow for each of the Incident and Problem Management Processes. These can be used immediately, or can be edited to reflect more comprehensively your support service requirements.

1.17.1 SLAs and Workflows

Each Workflow can be associated with one or more SLAs. The SLA provides the contract time that must be met by requests using the Workflow.

For example, if the Service Desk uses one Incident Workflow, which has multiple SLAs assigned to it, logged Incidents follow the same Lifecycle but the time allowed within each stage is based on the SLA contract requirements. The SLA assigned to either the Item, Customer, Organizational Unit or Incident determines which Workflow is selected for the Incident.

1.17.2 Editing default Incident and Problem Workflows

Incident and Problem Workflows can be configured to reflect the organizational Service Desk requirements for these processes. The default Workflows include States that are used by the business logic of the application to maintain control of the request Lifecycle.

It is recommended that the Selected States used by the application, as indicated by an asterisk, not be removed from the Workflow Lifecycle. However, other Available States can be added to the Selected States list.

The following table contains the default Incident and Problem Workflow States.

Default State	Description
Cancelled	Used to cancel a request when it is no longer to be worked on.
Cancelled Unpaid*	Used by the system from the Pending - No Contract State when Contracts and Invoices are enabled. See Billing.
Closed Resolved	Used when the request has been resolved. This is the Default Closed State for the Incident and Problem Workflows. This start marks the end of SLA timing and is used when measuring SLA times for Reports.
Closed Restored	Used when the request has been closed and the service restored for the Customer. This start marks the end of SLA timing and is used when measuring SLA times for Reports.
On Hold	Used when the request is on hold. By default this State stops SLA timing.
On Hold - Client Action	Awaiting a response from the Customer. When a Note is added to the request by the Customer, the system will change the status to Open.
On Hold - Pending Approval*	An Incident automatically moves to this State when the "Propose" button is used for sending an Incident Note. This means the CloseRequest email is sent to the Customer asking them to verify the proposed Solution. If the Customer does not respond to the email, the request is automatically closed by the number of days set within the Handshaking Privilege. (The email handshaking option is set by the Administrator in Setup>Privileges> Requests.)
	By clicking on the URL provided in the email, the Customer ensures the request retains an open and active state.

The * denotes the system-used States.

Default State	Description A request moves into this state when a Problem or Change has been created within the Analysis tab of the request. The timer stops and there are no future States as the request will be closed when the related Problem or Change is closed.		
On Hold - Process Escalated*			
Open	Used to indicate that the request is currently open.		
Open Restored	Used to identify that initial service to the Customer has been restored, or a Workaround is in place but the request is not resolved. This State stops the initial Response Timer if a Note has not been added to the request by a Technician.		
Pending	The default first State for new requests.		
Pending - No Contract*	Used when a request is created but there is no active Contract. A Contract needs to be created for either the Customer, Incident/Problem, Item or Organizational Unit.		
	NOTE: Do not use this State as the Default Open State for a Workflow.		

1.17.3 Editing Template Workflows

Prior to creating or editing existing Workflows, it is suggested that the preferred Workflow Lifecycle be mapped externally to the application.

If States are to be added or removed from the Workflow, it is recommended that all changes be made to the Current States list within a Workflow's Lifecycle tab, prior to mapping the Lifecycle. This ensures that all relevant status options exist in the Available States field, for allocation to the Previous and Next Workflow States.

Once the Workflow Lifecycle has been defined, edit an existing Workflow by:

1. Select Service>Workflows

The Workflows screen appears.

Workflows			
New Delete		All Workflows [sys]	•
🖾 Name		All Workflows [sys] Change Request Workflows [sys] Incident Workflows [sys]	
Typical Change Workflow		Problem Workflows [sys] Release Workflows [sys]	
Standard Change Workflow		Service Request Workflows [sys]	
Service Request Workflow			
Release Workflow			
Problem Workflow			
Incident Workflow			
Emergency Change Workflow			
Change Deployment Workflow			-
	1 - 8 of 8 Results		

2. Click the Workflow name hyperlink to modify or duplicate an existing template

Or, select New to create an entirely new Workflow. The Workflow tab appears and is used to define the Name, select the Process, set the default Open and Closed States for the Workflow. The States available within these lists are all those marked as an Entry or Exit point in the Lifecycle tab

3. Click Edit

The Duplicate button is displayed, select if relevant.

4. Complete the details of a new Workflow

Enter the Name, select the Process and enter a Description and click Next.

Workflow - New We	orkflow
Workflow	Lifecycle
Workflow Name	Incident - Events
Process	Incident 💌
Description	Incidents logged automatically by event monitor tools
	Cancel Next

5. In Edit mode amend relevant details within the Workflows tab:

6.

Field Name	Description
Workflow Name	Enter a relevant name for the Workflow.
Process	Select from the drop-down options the process type of Incident or Problem Workflow.
Default Open Status	The open State that a request adopts when it is assigned the Workflow.
Default Closed Status	The closed State that indicates the request has reached the end of the Workflow Lifecycle.
Email Note Action	This applies to requests that are in an non-active SLA State (i.e., where the SLA Active option is set to No). The option selected here determines the system behavior, regarding an SLA inactive request when an email is received from a Customer.
	 Do Nothing: Means the status of the request remains the same and the SLA timers are not re-activated. The email is added as a Note and also sent to the Technician.
	 Update Status: Means the status of the request is changed to an SLA Timer Active state, the email is added as a Note and it also sent to the Technician.
Update Status to	This field is displayed when the Update Status option is selected for the Email Note Action field. I allows the User to set a Next State, which is defined as an SLA Timer Active State, where a request will move to after an email has been received from a Customer regarding a request in an inactive SLA State.
SLA	Allows the User to assign an SLA to govern the lifecycle period of the Workflow.(See SLAs & Workflows above, for more information.)
	One or more SLAs can be associated with the Workflow.
Description	Defines the purpose of the Workflow

7. Use the Find SLA option to change or add SLAs assigned to the Workflow

Click 😳 to access the complete list of SLAs in the system. Refer to the above section for more information regarding SLAs and Workflows.

8. Edit the brief description that explains the purpose of the Workflow, if required

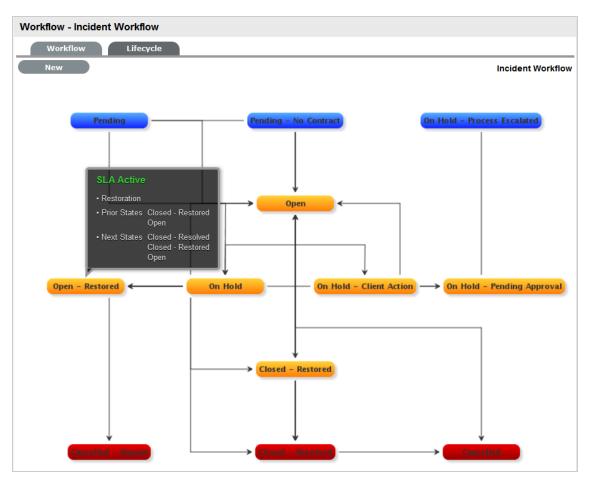
NOTE: The Contract Time field is visible when OLAs and/or Underpinning Contracts are associated with the Workflow States

It displays the accumulated amount of time of the OLAs and/or Underpinning Contract associated with the stages of the Workflow. This contract time cannot exceed the resolution time of the SLA assigned to the Workflow.

1. Click Save

Workflow - Workflow	w1
Workflow	Lifecycle
Edit	
Workflow Name	Workflow1
Process	Incident
Default Open Status	Pending
Default Closed Status	Closed - Resolved
Note Action	Do nothing
SLA	SLA
Description	Incident Workflow
	Done

2. Select the Lifecycle tab to define Workflow States



1.17.4 Adding or editing Workflow States:

1. Edit the State details

Click the State name hyperlink in the Workflow map or in the table of States, to display the Status information screen. Or, click New to create a new Workflow State.

Workflow - Incident Workflow			
Workflow	Lifecycle	Status	
Status			
Name	Open		
Active State	Yes		
Entry Point			
Exit Point			
Has Notes			
Service			
SLA Active	◉ Yes ◎ No		
SLA Restoration	© Yes . ◙ No		
SLA Resolution	🔍 Yes 🛛 🔍 No		
Contract Type	None OLA Ur	nderpinning Contract	
Previous States			
	Available states		Selected states
	On Hold - Process Escalated	00	Closed - Restored On Hold On Hold - Client Action On Hold - Pending Approval Open - Restored Pending +
Next States			
	Available states		Selected states
	Cancelled - Unpaid	00	Cancelled Closed - Resolved Closed - Restored On Hold On Hold - Client Action On Hold - Pending Approval
		Delete	Cancel Save

Status	
Name	System Required States, the States marked with an asterisk in the States Table, can be re-named if desired. For newly created States, enter a name.
Active State	Assign Yes for requests to be available in the Home tab by default, when assigned to this stage of the Workflow.
	Yes should be used for States where the User is actively working on the request or waiting for updates."No" generally applies to Workflow exit points and will only be available by default within the relevant Process tab list view.

Status	
Entry Point	An Entry Point is used to indicate the start of a Lifecycle. To make the state a Workflow Entry Point, select the Entry Point checkbox.
	As the Entry Point is the first state, the Previous States field will be removed.
Exit Point	Select whether the State will be an Exit Point. An Exit Point is used to indicate the end of a Lifecycle.
	NOTE: A Workflow can have only one Entry Point but multiple Exit Points.
Has Notes	Allows the Supervisor to include instructions or add relevant details for requests that move into this State. The information is configured within the Articles tab that is displayed when this option is enabled.
Listener Class	This field is visible if the Outbound Web Services option is enabled in the Admin>Setup>Privileges>System tab.
	Complete this field, if assigning this State to a request is to trigger an event in an external system.
	This field should contain the name of a Java class that implements the interface.
SLA Active	Links the status with timing set within SLAs and OLAs. When the option is set to No, the SLA/OLA timers stop and the triggers for escalations and warnings do not fire.
SLA Restoration	When timing is set using SLAs and OLAs, the SLA Restoration Time trigger is disabled when the request is moved to this state. Restoration Time indicates a Customer has access restored or a temporary workaround. Reports on Restoration Time are measured from when the Restoration Time trigger is disabled.
SLA Resolution	Allows the State selected to be used to mark the SLA Resolution Time. This will be used in SLA reporting.
Contract Type	Defines if the Workflow State will be managed by an internal (OLA) or external (Underpinning Contract) support agreement. If OLAs or Underpinning Contracts are assigned to a Workflow Lifecycle, the Workflow SLA Resolution Time cannot be exceeded by the sum of Resolution Times for all Contract Types assigned to the Workflow Lifecycle.

Status	
Assign SLM	This field is displayed when an UC is associated with the Workflow State. Use this field to define if the request ownership is to be maintained by the Assigned Technician or moved to the Manager of the SLA associated with the request.
Previous States	If the State is not an Entry Point, use the arrow button to select Previous States from the Available States and choose when this State will appear as a drop-down menu option in the Next Action field.
Next States	If the State is not an Exit Point, use the arrow button to select the Next States. A request can move to, in the Next Action field of a request Information Summary tab.

- 2. Delete the State if required, or Name/Rename the State
- 3. Enter all State information up to the SLA Resolution field
- 4. Save the updated State details

NOTE: It is recommended all States that are to be included in the Workflow be added or re-named now

After all States have been entered in the system, the mapping of the Workflow can be more easily achieved.

- 1. Continue to edit, add or delete States until all relevant States exist for the Workflow
- 2. To create the Workflow Lifecycle, States need to be assigned to the transitional states of Previous and/or Next

To move Available States to the Previous State or Next State field, open the Status Details screen by clicking the State object in the Workflow map or select the State hyperlink in the table beneath the Workflow map.

3. Assign States to be Next and/or Previous States

For the Current Status highlight an option in the Available State list and click the right-pointing arrow to move it to the Selected States field.

4. NOTE: When a State is used as a Previous and a Next State, it allows a request to move forward and backward in a Lifecycle

An Open State cannot have any previous States and a Closed State cannot have any Next States.

- 5. Click Save to return to the Workflow map and to access other States to build on the Workflow Lifecycle
- 6. Repeat Steps 14 to 16 until all transitional stages of the Workflow have been mapped

NOTE: To successfully save a Workflow, the sum Resolution Time of the individual Contract Types assigned to each transitional state of the Workflow Lifecycle, must be less than or equal to the Workflow's SLA Resolution Time

1. Click Save.

The visual representation of the Workflow is displayed.

1.17.5 Workflow Map

The Workflow Map is a visual representation of the Workflow Lifecycle. The map displays the relationship between each Lifecycle State by using different colors to represent the type of Lifecycle State.

Color	
Blue	Indicates the Entry point of the Lifecycle.
Orange	Is a Transitional stage of the Lifecycle.
Red	Indicates the Exit point of the Lifecycle.

Detailed information about a Lifecycle State can be accessed by clicking on the State field within the map.

1.17.6 Deleting a Workflow State

It may be necessary to delete a default State or a State that is no longer in use. Note that a State cannot be deleted if it has been assigned to a request.

To delete an unused State:

- 1. Select Service>Workflows
- 2. Click on the Workflow Name hyperlink
- 3. Click on the State Name hyperlink in the States Table beneath the Workflow Map
- 4. Click Delete
- 5. Select Save.

The State will be erased from the States list.

1.18 Billing: Contracts and Invoices

Billing within the system allows support organizations to manage their Customers' service and support contracts. This can be achieved by the system Administrator enabling the preferences of Contracts, with or without the preference of Invoices, within the Billing option of the Setup tab.

Billing	
Setup	Contracts
Billing Module	
Enable Purchase Orders	Yes No
Enable Contracts	Yes No
Enable Invoices	Yes No
Display SLA Prices	Yes No
Email Notifications	Enabled Disabled
Global Settings	
Currency	United States Dollar
	Save

When Contracts are enabled without Invoices, system contracts can be created without the need for charging Customers for the support provided. Whereas, the Contracts option combined with Invoices allows the application to manage service contracts and process payment within the one facility.

There are a number of Contract Types available within the system, and these include:

- · Per Request covers the period of time for which the request is open and work completed
- Per Item covers the Item, regardless of the number of requests logged against the Item but can be created for the following:

Subscription - a contract that covers a specified period of time

Time Limited Subscription - a contract that covers either a specific time period or number of support hours, whichever limit is reached first

Support Hours - a contract that defines the number of support hours covered

Support Hours by Month - a contract that covers a total number of support hours purchased for a defined timeframe and allocated on a per month basis.

When Billing is enabled in the application's Setup, a maintenance contract must exist for either a Customer, Organizational Unit or Item, before a request can be processed. For more information on creating a maintenance contract see Contracts.

1.18.1 Contract Validation Process

When a request is created and Contracts are enabled with Invoices, the system validates the contract status for a Customer, Organizational Unit or Item. As part of the contract validation process, the application selects the first element found on this list:

- 1. Customer (with a valid contract)
- 2. Org. Unit (with a valid contract)

- 3. Item (with a valid contract)
- 4. Customer (with a pending contract)
- 5. Org. Unit (with a pending contract)
- 6. Item (with a pending contract)
- 7. No contract found, then either a Per Request or Per Item contract is created through the request.

NOTE: When a Pending Contract is selected, the Contract must be processed before work can be undertaken on the request.

1.19 Service Request and Change Management Workflows

Service Request and Change Management Workflows define the sequence of States to be followed by Service Requests and Change Requests (RFC) logged with the Service Desk. These Workflows are unlimited and fully configurable, to cover the diverse range of business change implementations required by an organization.

1.19.1 SLAs and Workflows

Each Workflow can be associated with one or more SLAs. The SLA provides the contract time that a Workflow must adhere to.

For example, if the Service Desk uses a Change Workflow, which has multiple SLAs assigned to it, Change Requests that use that Workflow follow the same Lifecycle but the time allowed within each stage is based on the SLA contract requirements. The SLA assigned to either the Item, Customer, Organizational Unit or Request determines which Workflow is selected for the Change Request.

1.19.2 Approval States

Approval States in Service Request and Change Workflows provide the facility for Customers, Line Managers and Manager Users to accept or reject Request activity. If a State has the Approval State option enabled, the type of Approval determines who, be it a Manager or Customer User, is assigned to the State and it is not possible for other User Roles to also be assigned to the State.

Requests assigned a Customer or Line Manager Approval State can be processed through the Customer Portal or through Email. A request can only be assigned a Line Manager Approval State if the Customer associated with the Request is assigned with a Line Manager within their Customer Information screen. The system will validate this association prior to saving the Request and the User assigned to the Request when moved into the Line Manager Approval State will be the Line Manager defined in the Customer Information screen. When Requests are in a Customer or Line Manager Approval State, the only User who can edit the Request is the Team Lead.

Team Manager Approval States only allow Users with the Manager Role to be assigned to the State. It should be noted that a Technician, Supervisor or Partner User can also be assigned a Manager Role within their User Information screen, which will allow them to be assigned as Managers in the Team and then to Manager Only Approval States. The Managers are associated with an Approval State

within the Team Information screen. First, define the Manager Group within the Group tab of the Team Information screen, and then assign that Group to the relevant Workflow State in the States tab of the Team Information screen.

IMPORTANT: Workflow behavior will be the same if you approve the request from Customer Portal, User Portal, or Email.

For more information about Manager assignment to Approval States, see:Service & Change Teams.

1.19.3 Editing a Default Workflow

To edit a Service Request or Change Workflow:

1. Select Service>Workflows

The Workflows screen appears.

2. Click the Workflow name hyperlink to modify or duplicate an existing template

Or, select New to create an entirely new Workflow. The Workflow tab appears and is used to select the Process, set the default Open and Closed States for the Workflow. The States available within these lists are all those marked as an Entry or Exit point in the Lifecycle tab.

3. Click Edit

The Duplicate button becomes available, select if relevant.

4. Complete the details for a new Workflow

Enter the Name, select the Process and enter a Description and click Next.

Workflow - Problem Workflow	
Workflow	Lifecycle
Edit	
Workflow Name	Problem Workflow
Process	Problem
Default Open Status	Pending
Default Closed Status	Closed - Resolved
Note Action	Do nothing
SLA	
Description	Configurable Problem Management workflow
	Done

5. In Edit mode amend relevant details within the Workflows tab:

_		
5		
υ	٠	

Field Name	Description
Workflow Name	Enter a relevant name for the Workflow.
Process	Select from the drop-down options the process type of Change or Service Request Workflow.
Default Open Status	The open state that a Request adopts when it is assigned the Workflow.
Default Closed Status	The closed state that indicates the Request has reached the end of the Workflow Lifecycle.
Email Note Action	This applies to Requests that are in a non-active SLA State (i.e., where the SLA Active option is set to No). The option selected here determines the system behavior, regarding an SLA inactive Request, when an email is received from a Customer.
	 Do Nothing: Means the status of the Reques remains the same and the SLA timers are no re-activated. The email is added as a Note and also sent to the Technician.
	 Update Status: Means the status of the Request is changed to an SLA Timer Active State, the email is added as a Note and it also sent to the Technician.
Update Status to	This field is displayed when the Update Status option is selected for the Email Note Action field. I allows the User to set a Next State, which is defined as an SLA Timer Active State, where a request will move to after an email has been received from a Customer regarding a Request in an inactive SLA State.
SLA	Allows the User to assign a SLA to govern the lifecycle period of the Workflow.(See SLAs & Workflows above, for more information.)
Description	Defines the purpose of the Workflow

7. Use the Find SLA option to change or add SLAs assigned to the Workflow

Click 🚱 to access the complete list of SLAs in the system. Refer to the above section for more information regarding SLAs and Workflows.

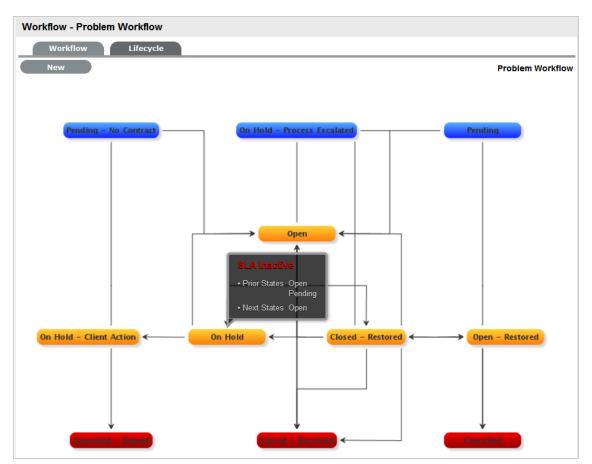
Workflow - Problem	n Workflow		
Workflow	Lifecycle		
Duplicate			
Workflow Name	Problem Workflow		
Process	Problem		
Default Open Status	Pending		
Default Closed Status	Closed - Resolved		
Note Action	Do nothing O Update status		
SLA			
		Find SLA (Name)	
			😧
		SLA Warranty	<u>ا</u>
		1 - 1 of 1 Res	
		I-IOTIRES	uits
Description	Configurable Problem Managemen	nt workflow	
		Cancel	Save

8. NOTE: The Contract Time field is visible when OLAs and/or Underpinning Contracts are associated with the Workflow States

It displays the accumulated amount of time of the OLAs and/or Underpinning Contract associated with the stages of the Workflow. This contract time cannot exceed the resolution time of the SLA assigned to the Workflow.

- 9. Edit the brief description that explains the purpose of the Workflow, if required
- 10. Click Save

11. Select the Lifecycle tab to create or modify Workflow States



1.19.4 Adding or editing Workflow States:

1. Click the State field in the Workflow map or State name hyperlink to display the Status information screen

Or, click New to create a new Workflow

SL	Entry Point Exit Point Has Notes SLA Active A Restoration A Resolution	n Hold Ves © No]]	atus	
SL	Name Image: Constraint of the second of th	Yes No		
SL	Active State Entry Point Exit Point Has Notes SLA Active A Restoration A Resolution	Yes No		
SL	Entry Point Exit Point Has Notes SLA Active A Restoration A Resolution	Yes [®] No		
SL	Exit Point Has Notes Service SLA Active A Restoration A Resolution	Yes No		
SL	Has Notes Service SLA Active A Restoration A Resolution	Yes 🖲 No		
SL	Service SLA Active A Restoration	Yes 🖲 No		
SL	SLA Active O A Restoration O A Resolution O	_		
SL	A Restoration O	_		
SL	A Resolution	Yes 💿 No		
C				
	Contract Type	Yes 🔍 No		
Pre		🔍 None 🔍 OLA 🔍 Underpi	nning Contract	
	vious States			
		Available states		Selected states
		Closed - Restored Dn Hold - Client Action	Î	Open A Pending
		On Hold - Process Escalated Open - Restored	0	
		Pending - No Contract		_
	Next States			
	HEAT STATES	Available states		Selected states
	C	Cancelled	*	Open 🔺
		Cancelled - Unpaid Closed - Resolved	0	
		Closed - Restored On Hold - Client Action	0	
		Open - Restored	-	~
			Delete	Cancel Save
ate.				

Status	
Approval State	Sets the Status as an Approval State. This allows a Manager User to be assigned to this State, which enables them to approve or reject a Request when it moves into this stage of the Workflow.
	NOTE: An Entry/Exit status cannot be an Approval State.
Item Editable	Select this option to allow the details of an Item to be edited when a Request is moved into this State . When this option is enabled for a Workflow State, is visible next to the Item Type link in the Summary tab of the Request.
KBA Approval	Enable this option as part of the KBA Approval process, which displays the Accept, Revise and Reject buttons for the User to publish, advise content revision or reject content.
	Enabling this option, removes the Next States fields and requires the User to define where the request will move to if the Accept and Reject buttons are selected. If the Revise button is selected, the Request will move to the "On Hold - KBA Rework" system state. See:KBA Content Approval.
Entry Point	An Entry Point is used to indicate the start of a Lifecycle. To make the state Workflow Entry Point, select the Entry Point checkbox.
	As the Entry Point is the first state, the Previous States field will be removed.
Exit Point	Select whether the state will be an Exit Point. An Entry Point is used to indicate the end of a Lifecycle.
	NOTE: A Workflow can have only one Entry Point but multiple Exit Points.
Has Notes	Allows the Supervisor to include instructions or add relevant details for Requests that move into this State. The information is configured within the Notes tab that is displayed when this option is enabled.
	Information and attachments included on the Notes tab, are displayed as a scroll-over when the Request moves into the State.

Status

Status	
Listener Class	This field is visible if the Outbound Web Services option is enabled in the Admin>Setup>Privileges>System tab.
	Complete this field, if assigning this State to a request is to trigger an event in an external system.
	This field should contain the name of a Java class that implements the interface com.livetime.ws.listenWorkflowListener that has been compiled into a jar file and added to the LiveTime classpath. Please contact support for further details.
SLA Active	Links the Status with timing set within SLAs and OLAs. When the option is set to No, the SLA/OLA timers stop and the triggers for reminders, escalations and warnings do not fire.
SLA Restoration	If the 'Yes' option is selected for SLA Restoration, it means that Requests that move into this Stage of the Workflow have met the SLA Restoration Time.
SLA Resolution	If the Yes option is selected for SLA Resolution, it means that Requests that move into this Stage of the Workflow have met the SLA Resolution Time.
Contract Type	Defines if the Workflow State will be managed by an internal (OLA) or external (Underpinning Contract) support agreement. If OLA's or Underpinning Contracts are assigned to a Workflow Lifecycle, the Workflow SLA Resolution Time cannot be exceeded by the sum of Resolution Times for all Contract Types assigned to the Workflow Lifecycle.
Assign SLM	This field is displayed when an UPC is associated with the Workflow State. Use this field to define if the request ownership is to be maintained by the Assigned Technician or moved to the Manager of the SLA associated with the request.
Previous States	If the State is not an Entry Point, Previous States can be assigned to the Workflow stage. Highlight the relevant State and use the arrow button to move Available States to the Previous States field. These options designate the Workflow stages a Request can come from, before it arrives in this Workflow State.
Next States	If the State is not an Exit Point, Next States can be assigned to the Workflow state. Use the arrow button to select the Next States from the Available States. These options are included in the Next Action drop-down menu of a Request.

Status	
Accept State	(Visible when the Approval State or KBA Approval option is Yes.)
Approval	Displays the States that a Request can move to when a Request action is Accepted. Select the appropriate State, for the system to automatically route the Request when the Accept option is selected.
	 Customer when selected, means the reques will be assigned to the Customer associated with the request to accept/reject request activity. The Customer will be able to access the accept/reject icons in the Customer Portal to process the request.
	 Line Manager, select if the request is to be forwarded to a system user with the Customer Role, who will process the approva in relation to the Customer associated with the request. The Customer/Line Manager wi be able to access the accept/reject icons in the Customer Portal to process the request.
	 Team Manager select if a single Manager Use assigned to the Team is to process the Request.
	 Team Managers# if selected, set the number of Managers that are required to Approve the Request before the system will automaticall apply the defined Accept or Reject State.
	 Team Managers% if selected, set the percentage weighting that must be achieved by Managers voting before the system will automatically apply the defined Accept or Reject State. When selected, define the percentage weighting.
Reject State	(Visible when the Approval State or KBA Approva option is Yes.)
	Displays the States that a Request can move to when a Request action is Rejected. Select the appropriate State, for the system to automaticall route the Request when the Reject option is selected.

- 3. Delete the State if required, or Name/Rename the State
- 4. Enter all State information up to the SLA Resolution field
- 5. Save the updated State details

NOTE: It is recommended that all States that are to be included in the Workflow be added or renamed now

After all States have been entered in the system, the mapping of the Workflow can be more easily achieved.

- 1. Continue to edit, add or delete States until all relevant States exist for the Workflow
- 2. To create the Workflow Lifecycle, States need to be assigned to the transitional states of Previous and/or Next

To move Available states to the Previous State or Next State field, open the Status details screen by clicking the State field in the Workflow map or select the State hyperlink in the table beneath the Workflow map.

3. Assign States to be Next and/or Previous States

For the Current Status highlight an option in the Available State list and click the right-pointing arrow to move it to the Selected States field.

NOTE: When a State is used as a Previous and a Next State, it allows a request to move forward and backward in a Lifecycle

An Open State cannot have any previous States and a Closed State cannot have any Next States.

- 1. Click Save to return to the Workflow map and to access other States to build on the Workflow lifecycle.
- 2. Repeat Steps 13 to 16 until all transitional stages of the Workflow have been mapped.

NOTE: To successfully save a Workflow, the sum Resolution Time of the individual Contract Types assigned to each transitional state of the Workflow Lifecycle, must be less than or equal to the Workflow's SLA Resolution Time.

1. Click Save.

The visual representation of the Workflow is displayed.

1.19.5 Workflow Map

The Workflow Map is a visual representation of the Workflow Lifecycle. The map displays the relationship between each Lifecycle State by using different colors to represent the type of Lifecycle State.

Color		
Blue	Indicates the Entry point of the Lifecycle.	
Orange	Is a Transitional stage of the Lifecycle.	
Red	Indicates the Exit point of the Lifecycle.	

Detailed information about a Lifecycle State can be accessed by clicking on the State field within the Map.

1.19.6 Deleting an Unassigned Workflow

To delete an unassigned Service Request or Change Workflow:

1. Select Service>Workflow

The Workflows screen appears.

- 2. Select the checkbox to the left of the Workflow to be deleted
- 3. Click Delete

The checked Workflow is no longer visible.

NOTE: A Workflow that belongs to a Team cannot be deleted.

1.19.7 Deleting a Workflow State

It may be necessary to delete a system default State or a State that is no longer in use. Note that a State cannot be deleted if it has been assigned to a Request.

NOTE: It is recommended that any States listed in the table of States included on the Life Cycle tab that are not included in the Workflow or used by the system, be removed from the table as all States included here are listed in the States tab when Workflow Technician assignment is being configured. By removing unused States from the table, assigning Technicians to the relevant stages of the Workflow becomes an easier task.

To delete an unused State:

- 1. Select Service>Workflows
- 2. Click on the Workflow hyperlink
- 3. Move to the Lifecycle tab
- 4. Select the State name link in the table of States included in the Lifecycle tab.
- 5. Click Delete
- 6. Click Done.

1.20 Creating a Service or Change Request Team

Service and Change Request Teams are built around the selected Workflow. Technicians and Managers are assigned to work groups and each State of the Workflow Lifecycle is associated with a selected work group. When a request moves to a next State, it is assigned to a Technician or Manager within the work group associated with that Workflow State. One or multiple levels of escalation can also be configured for the Workflow, which span the lifecycle of the Workflow the Service or Change Team are assigned.

1.20.1 Creating a Service Request or Change Team

To create a Service Request or Change Management Support Team:

- 1. Select User>Teams
- 2. Click New
- 3. Enter the Team Name
- 4. Select the Service or Change Request Process
- 5. Enter the Team email address, if relevant

Team Information			
Information	Service		
Details		Location	
Team Name		Address	
Process	Incident	City	
Team Lead	•	State	
Incoming Email		Zip	
Email Display Name		Country	•
Customer Notification	Email	Phone	
Technician Notification	Email		
Live Priority	On Off		
Self Assign	On Off		
Notify on New	🖲 Technician 🔍 Layer 🔍 Team		
Notify on Update			
Notify on Escalate	Technician Cayer Team		
Members			
Technicians	Available Technicians		Selected Technicians
	Craig Wilson Ingo Engels Joe K Kamal K Sankar R Vaibhav Jain	0	None selected
			Cancel Next

- 6. Define the Team options:
- 7.

Options	Description
Process	Indicates if the Team is to manage Change or Service Requests.
Team Lead	The Technician assigned to supervise the Team and its activities. Options are visible when the Technicians have been assigned to the Team.

Options	Description
Incoming Email	Enter a specific Email Address for the Team, which allows Customers to use directly. This address will need to be configured as an alias to the system support address on the Email Server. See: Email Polling & Request Creation.
Email Display Name	If desired, enter a name for the Team that will be used in the From address for email responses sented by members of the Team.
Customer Notification	Sets the default notification method applied to requests for Customer correspondence, when requests are assigned to this Team.
	The Customer Defined option, derives the method of notification from the setting within the Customer's Profile or Account Information tab.
Technician Notification	Sets the default notification method applied to requests for Technician correspondence, when requests are assigned to this Team.
Self Assign	When enabled, Requests created by a Technician will automatically be assigned to that Technician.
Notify on New	Determines who is informed about the creation o a new Request.
	<i>Technician</i> - notifies only the Technician assigned to the request. (This is the default setting.)
	<i>Layer</i> - notifies all members in Layer One of the Team assigned to the request.
	Select Team - notifies all members of the Team.
Notify on Update	Determines who is informed when a Request is updated.
	<i>Technician</i> - notifies only the Technician assigned to the request. (This is the default setting.)
	<i>Layer</i> - notifies all members in Layer One of the Team assigned to the request.
	Select Team - notifies all members of the Team.
Notify on Escalate	Determines who is informed when a Request is escalated.
	<i>Technician</i> - notifies only the Technician assigned to the request. (This is the default setting.)
	<i>Layer</i> - notifies all members in Layer One of the Team assigned to the request.
	Select Team - notifies all members of the Team.

Options	Description
Request Queue (Service Request Teams only)	Allows the Team to use a holding bay for Requests that are received via email or the Customer Portal. (This option is visible if it has been enabled by the Administrator.)
	If the Team has only one Technician assigned to the work group associated with the Workflow Default Entry State, new Requests are automatically assigned to that Technician and that Technician is notified of the new Request assignment.
	If the Team has multiple Technicians assigned to the work group associated with the Workflow Default Entry State, the new Request is placed in the Queue (i.e., it is assigned to the System User) and all members of the Team are notified that a new Request has been assigned to the Request Queue. See: Queues.
Queue Visibility (Service Request Teams only)	When the Request Queue is enabled, the option can be refined to allow the Queue to be available for assigned Workflow entry points, or all stages of the assigned Workflow. If All States is enabled Users can move Requests back to the Queue throughout the Request lifecycle. See:Queues.
Edit Assign (Service Request Teams only)	When set to Yes and a request assigned to the System User (i.e., Queue) is opened in Edit Mode, the system will automatically assign the request to the User editing the request if they are in the Escalation Layer associated with the request.
Close Assign	When set to Yes and a request assigned to the
(Service Request Teams only)	System User (i.e., Queue) is moved to an Exit State of the Workflow, the system will automatically assign the request to the User who prompted the close action.
Strong Authentication	If the Manager User Name and Password is required to be re-entered during the processing of a Request in an Approval State, set this option to Yes.

- 8. Complete the Team Location details, if required
- 9. Select Technicians from the Available Technicians list

Highlight Technician names within the Available Technicians list and click the arrow icon to move the Users to the Selected Technicians list.

10. Select Managers from the Available Managers list

This is required if a Manager is to be assigned to a Workflow Approval State.

Highlight Manager names within the Available Managers list and click the arrow icon to move the Users to the Selected Manager list.

11. Click Next

Team Information						
Information	Service	Group		States	Layers	
				Chan	ge Managemen	t Team
Agreements						
OLAs	Available Ol	As			Selected OLAs	
	No OLAs ava	ilable			None selected	
Workflows						
Workflows	Available W	orkflows		Sele	ected Workflows	
	Change Deployment Emergency Change V Typical Change Work	Vorkflow	0	Standard Cha	ange Workflow	*
Default Workflow	Standard Change Wo	rkflow				
				Cancel	Save	

The Service Screen displays all Available OLAs and Workflows

12. Assign the relevant OLAs within Available OLAs list (Optional)

Highlight the OLA and click the arrow icon to move an OLA to Selected OLAs list. Assigning an OLA to the Team ensures the Team's details will be selectable when the assigned OLA is associated with a Workflow State.

13. Assign the relevant Workflows within the Available Workflow list

Highlight the Workflow and click the arrow icon to move the Workflow into the Selected Workflows list. Assigning Workflows to the Team ensures the Team is displayed as an option within the Request Summary tab when the associated Workflows are assigned to a Request.

14. Select a Default Workflow from the drop-down list

This is relevant if more than one Workflow is assigned to the Change Team. The Default Workflow is automatically applied to an RFC that has been allocated to this Change Team.

15. Select Next

The Group tab displays the Default Technician Group and Default Manager Group. Within this tab multiple groups of Technicians and Managers can be created that are then associated with the relevant stages of the Workflow.

16. Click on the Default Group link

The Team Lead will automatically be applied to the Group. Rename the Work Group, if relevant. Highlight Technician names within the Available Technicians list and

click the arrow to allocate the Technician to the Selected Technicians field.

Team Information			
Information	Service Group	States	Layers
			Change Management Team
Group Name	Default Group		
Group Type	Technician Manager		
Technicians	Available Technicians		Selected Technicians
	Sankar R	*	Ingo Engels
		0	
		0	
		*	-
		Delete	Cancel Save

17. Click Save

Repeat the process for the Default Managers Group.

Team Information					
Information	Service Group	S	tates	Layers	
				Change Manage	ement Team
Group Name	Default Manager Group				
Group Type	Technician Image Manager				
Managers				Selected Managers	
	Scott Richards	*		Senthil K	~
			0		
			0		
		-			-
			Delete	Cancel 5	Save

18. Click New to create any additional Technician or Manager Groups

Information	Service	Group S	tates I	Layers	
Group Name	Group				
Group Type	Technician O Mana	ager			
Technicians	Available Tech	nicians		Selected Technic	cians
	Ingo Engels	*	0	Sankar R	*
		Ŧ	0		-

19. Click Save to save the details of a newly created Technician or Manager Group

Team Information				
Information	Service	Group State	s Layers	<u> </u>
			Ch	ange Management Team
Groups				
	Name	🛓 Assigned Technicians	Assigned Managers	Group Type
	Default Group	Ingo Engels		Technician
	Default Manager Group		Senthil K	Manager
	Group12		Scott Richards	Manager
		1 - 3 of 3 Res	sults	
		C	ancel New	Save

20. Click Next, when all Groups that are required for the Workflow have been created

The Workflows/States of the Workflow Lifecycle are displayed with the system Default Group assigned to each State. The default Manager Group will be assigned to any Manager Approval States.

Team Information				
Information	Service G	Group States	Layers	
			Ch	ange Management Team
Workflows	Standard Change Workflow	•		
States	Standard Change Workflow			
	Name	🛓 Assigned Groups		
	Cancelled	Default Group		
	Cancelled - Unpaid	Default Group		
	Closed (Verified) - CAB	Default Group		
	Closed - Resolved	Default Group		
	On Hold	Default Group		
	On Hold - KBA Revise	Default Group		
	Open	Default Group		
	Pending	Default Group		
	Pending - CAB	Default Group		
	Pending - No Contract	Default Group		
	1-	10 of 11 Results 🏾 🌩 🔿		
			Cancel	Save

21. To assign a different Work Group to a Workflow State, click the state Name link

Team Information			
Information	Service	Group States	Layers
			Change Management Team
Details			
State Name	Closed - Resolved		
Group	Default Group	•	
Members			
Technicians	Name	🛓 Account Type 🛛 🗮 Supe	ervisor 📃
	Ingo Engels	Technician Kama	al K
		1 - 1 of 1 Results	
			Cancel Save

- 22. Select the relevant Group from the drop-down list
- 23. Select Save

Repeat the Work Group assignment for each State, where relevant.

24. Click Next

The Layers tab is displayed, where one or more overarching layers of escalation can be applied to the Workflow.

- 25. Click on the Layer link to assign the relevant Users to the escalation layer and save
- 26. Click Save and Done.

To remove a User from a Team:

1. In the User tab, click Users

The User Information screen appears.

- 2. Click on the name of the User
- 3. Select the Team tab
- 4. Click on Edit.

The Remove button is visible.

1.20.2 Manager Approval State assignment

For a Manager User to be allocated the privilege of approving a Change or Service Request they must be assigned to a Change or Service Request Team and an Approval State of the relevant Change or Service Request Workflow. Change Workflows must include Approval States (i.e., States where activities are accepted or rejected) before the option to assign a Manager to a Change Team becomes available. See: Service or Change Request Workflows for more information.

To assign a Manager to a Workflow Approval State:

- 1. Go to User > Teams
- 2. Select a Service or Change Request Team

Information	Service Group	States	Layers
Duplicate			Change Management Team
Details		Location	
Team Name	Change Management Team	Address	
Process	Change Request 👻	City	
Team Lead	Ingo Engels	State	
Incoming Email		Zip	
Email Display Name		Country	•
Customer Notification	Email 💌	Phone	
Technician Notification	Email		
Live Priority	◎ On		
Self Assign	◎ On [●] Off		
Notify on New	🖲 Technician 🔘 Layer 🔘 Team		
Notify on Update	Technician Layer Team		
Notify on Escalate	Technician Layer Team		
Strong Authentication	◎ On		
Members			
Technicians	Available Technicians		Selected Technicians
	Craig Wilson Joe K Kamal K Vaibhav Jain		Sankar R A Ingo Engels
Managers	Available Managers		Selected Managers
	Mike S		Selva K Senthil K Scott Richards
		Delete	Cancel Save

3. In Edit mode, assign relevant Managers from the Available Managers list

Highlight Manager names within the Available Managers list and click the arrow icon to move the Users to the Selected Manager list.

4. Go to the States tab

Team Information			
Information	Service	Group States	Layers
			Change Management Team
Workflows	Standard Change Workflow	N Default Manage	r Group is automatically
States	Standard Change Workflow	applied to Work	kflow Approval States.
	Name	🛓 Assigned Groups	
	Cancelled	Manager Approval Group	
	Cancelled - Unpaid	Default Group	
	Closed (Verified) - CAB	Default Group	
	Closed - Resolved	Default Group	
	On Hold	Default Group	
	On Hold - KBA Revise	Default Group	
	Open	Default Group	
	Pending	Default Group	
	Pending - CAB	Default Group	
	Pending - No Contract	Default Group	
	6	1 - 10 of 11 Results 🏾 🚽 🚽	
			Cancel Save

5. Select a Workflow

The Default Manager Group, which may have been re-named, is automatically assigned to all Approval States of the selected Workflow.

- 6. To adjust the assigned Manager Group, select the Approval Workflow State link
- 7. Select the Manager Group from the drop-down list and save
- 8. Click Save and Done.

1.20.3 Layers Tab

Requests moving through Service or Change Request Workflows can be escalated to the Team Lead or Supervisor User at any stage of the Workflow that is configured as a Manager Approval State. This action can be achieved by using the Escalate button within the Summary tab of the Request.

By default escalation layers are created with the Team Lead assigned. To amend or add to the assignment:

- 1. Go to User > Teams
- 2. Select a Service or Change Request Team
- 3. Click Edit
- 4. Select the Layers tab
- 5. Click on the Layer hyperlink

Team Information					
Information	Service	Group	States	Layers	
				Change Mana	agement Team
Layer Name	Layer 2				
Technicians	Available Te	chnicians		Selected Technici	ans
	Sankar R	* *	00	Ingo Engels	×
			Delete	Cancel	Save

- 6. Amend the assignment, as required
- 7. Click Save

If additional escalation layers are required, select New and repeat steps 5 to 7.

8. Click Done when all required escalation layers are configured.

1.21 KBA Content Approval

When the Control KBA via Request option is enabled in the Setup>Privileges>Request tab, Knowledge Base content with a Pending Publication status automatically generates a Request that requires approval by Users with publishing privileges, before the content is accessible in the Knowledge Base.

When the User has completed the content and the Article is ready for publication and moved to the Article Status of Pending Publication, a Request is automatically created. When the KBA is assigned the Pending Publication state, the content of the Article can no longer be edited.

Published KBA content that is edited, also results in generating a Request for approval but the Article retains its published state and displays the pre-edited content. Upon approval of the new content, the Article is updated.

1.21.1 Creating KBA Approval Requests

New KB content is initially saved with a status of In Development. When this content is ready to be published and if the Control KBA via Request is enabled, the following steps should be followed:

- 1. Go to the Knowledge > Articles tab
- 2. Select the Article No. link
- 3. Click Edit
- 4. Move the Status to Pending Publication

Visibility	Everyone 💌]
Status	In Development 💌	
Item Category	In Development Pending Publication	

5. Click Save

The Request Number that was generated is displayed and the KBA moves can no longer be edited.

Information
Service Request #100020 has been created.

6. Click Done.

1.21.2 Managing KBA Approval Requests

KBA Approval Requests are found within the Request or Change tab, as defined in the Control KBA via Request customization. To approve new content within the relevant tab:

1. Select the Request # hyperlink

Service Request Informa	tion			
Customer Cont	tract Analysis Summary Notes	Attachments I	mpact Audit Trail	
Add Note Add Atta	achment Duplicate 🛱 Print 🛆 Alerts			Service Request # 100090
Details				
Title		Notification		
Customer	Jeff Lag 🕕 🔕	Customer	Email Customer	
ୁଅ Item Number	Service Desk 📵 🔕	Customer CCs		
	Service Desk	Technician	Email 🔻 Team 💌	
Classification	Question	Technician CCs		
Urgency	Moderate 💌	Service Request		
Impact	Moderate 💌	Team	KBA Approval Team	
	Medium	💂 Workflow	KBA Approval workflow	
Assignments		Status	Pending Publication	
	◎ On ○ Off		Pending Publication	
Escalation Layer	Layer 1	Pending KBA		
Technician	Vaibhav Jain	View KBA		
Subject	KBA Approval Article			
/ Description	Article has been updated and needs to be published			
			Delete Cano	cel Save

- 2. Click Edit
- 3. Select the View KBA link

The contents of the KBA is displayed.

4. Click Done

The screen returns to the Summary tab.

5. Move the Request to the Approval State

Service Request	
Team	KBA Approval Team
😤 Workflow	KBA Approval workflow
Status	Pending Publication
Next Action	KBA Assessment Pending Publication

- 6. Click Save
- 7. Click Edit

The Accept, Revise and Reject buttons are displayed.

Pending KBA				
View KBA	#2			
Operations	≫	2	Revise	

Status	Description				
2	When selected the new content is approved for publication and the Request is moved to the Accept State.				
	An Alert is sent to the KBA author informing them of the successful publication.				
-	When selected, the Request Summary screen displays the Notes field to allow the User to add comments and the Request is moved to the "On Hold - KBA Revise" State. The KBA is returned to the "In Development" State.				
	The KBA author is sent an Alert, notifying them that the KBA requires revision. When the edits have been made and the KBA is returned to the "Pending Publication" Status, the Request is re-activated and set to the Approval State.				
2	This option is to be selected when it is decided that the KBA Content is not suitable for the KB.				
	The Request moves to the configured Reject State and a Notes field is displayed allowing the User to record the reason for the decision. The KBA returns to the" In Development" State, which allows the author to delete the KBA, if desired.				
	The KBA author is sent an Alert, notifying them that the content has been rejected.				

8. Select the appropriate Operations button

A warning message is displayed, select OK. The system will move the Request to the appropriate State defined in the Workflow.

9. Add Note Content, if relevant

Select Add Note button to save Note Content.

10. Click Done.

An alert is sent to the author of the KBA Article, notifying them if their KBA has been approved, rejected or requires revision. The Alert includes links to the related Article and Request.

R	Information:	KBA request - approved	
	The KBA request # Click Here to view t	1000450 for Article #140 has been approved Click H he Request	lere to view the Article
		Dismiss	Done
_			
Alerts			
Alerts RSS F	eed		
RSS F	eed Publish	v ≣ Title	

NOTE: If a KBA Approval Request is deleted, the associated content reverts to the In Development status and the relationship between the Request and KBA is removed.

If a KBA is deleted when the associated Request is in the On Hold - KBA Rework system state, the Request moves to the Default Closed State for the assigned Workflow and the relationship between the two elements is deleted.

1.22 Teams

Technicians are allocated to Teams for the various support processes. For each Process (i.e., Incident, Problem, Change and Service Request) there must be at least one support Team.

Default Teams are assigned to specific Item Types. Support requests generated against an Item Type are then assigned to a Technician within the default support Team for that Process. The Team may be reassigned based on other options provided through the associated SLA(s) and Workflow(s).

Support Teams for Incident and Problem Management include escalation layers, and Technicians are assigned to each of these layers. Incidents and Problems follow the escalation path determined by the service level triggers assigned to the request. For a Technician to be able to edit a request, they must be a member of the assigned Team, although they do not need to be included in an escalation layer.

Service and Change Request Teams are built around the selected Workflow. Technicians are assigned to work groups and each State of the Workflow Lifecycle is associated with a selected work group. When a request moves to a next State, it is assigned to a Technician within the work group associated with that Workflow State. One or multiple levels of escalation can also be configured for the Workflow, which span the lifecycle of the Workflow the Service or Change Team are assigned.

A Service Portfolio Team can be configured in the system, assigning the Users who will manage the development, production and discontinuation of services offered to the organization.

Use this section to:

- Create new Incident and Problem Teams with escalation layers
- Create Service and Change Request Teams with workflow assignments
- Create a Service Portfolio Team
- Create a Release and Deployment Team

Teams									
New	♀ Search	Export: Current Page	- %					Display: 1	0 💌
Team Name 🛓	Process	Lead Technician	OLAs		Incoming Email	Phone	Workflows	Layers	
BYOD-Incident-Team	Incident	Joe K					Incident Workflow	1	^
Change Management Team	Change Request	Ingo Engels					Standard Change Workflow	2	
Device-Incident Team	Incident	Sankar R					Incident Workflow	1	
Problem Analysis Team	Problem	Sankar R					Problem Workflow	1	
Service Request Team	Service Request	Vaibhav Jain					Service Request Workflow	2	
Unknown	Incident	System Supervisor					Incident Workflow	1	-
				1 - 6 of 6 Res	sults				

1.22.1 Unknown Team

By default the system includes the system Team, Unknown, within the Teams List. This is the Team used by the application for Incidents created via email. It can be configured to use the system email address or an email account that is an alias for the main system account and Technicians can be assigned like any other Incident Team.

NOTE: The Unknown Team should *NOT* be re-named and will *NOT* appear in any other Teams lists throughout the application, i.e., when assigning a Team to an Item or Item Type.

1.22.2 Creating an Incident or Problem Team

To create an Incident or Problem Team:

- 1. Select User>Teams
- 2. Click New
- 3. Enter the Team Name

Team Information			
Information	Service		
Details		Location	
Team Name		Address	
Process	Incident	City	
Team Lead		State	
Incoming Email		Zip	
Email Display Name		Country	•
Customer Notification	Email	Phone	
Technician Notification	Email		
Live Priority	◎ On [◎] Off		
Self Assign	◎ On		
Notify on New	🖲 Technician 🔍 Layer 🔍 Team		
Notify on Update	Technician Layer Team		
Notify on Escalate	🖲 Technician 🔘 Layer 🔘 Team		
Members			
Technicians	Available Technicians		Selected Technicians
	Craig Wilson Ingo Engels Joe K Kamal K Sankar R Vaibhav Jain +	0	None selected
			Cancel Next

- 4. Select Incident or Problem Process
- 5. Enter the Team email address, if relevant
- 6. Define the Team options
- 7.

Options	Description
Team	Enter the Team Name. (Required.)
Process	Indicates if the Team is to manage Incidents or Problems.
Team Lead	The Technician assigned to supervise the Team and its activities. Options are visible when the Technicians have been assigned to the Team.
Incoming Email	Enter a specific Email Address for the Team, which allows Customers to use directly. This address will need to be configured as an alias to the system support address on the Email Server. See: Email Polling & Request Creation.

Options	Description
Email Display Name	If desired, enter a name for the Team that will be used in the From address for email responses sent by members of the Team.
Customer Notification	Sets the default notification method applied to requests for Customer correspondence, when requests are assigned to this Team.
	The Customer Defined option, derives the method of notification from the setting within the Customer's Profile or Account Information tab.
Technician Notification	Sets the default notification method applied to requests for Technician correspondence, when requests are assigned to this Team.
Live Priority	Routes requests to Technicians who belong to the Team and logged into the system.
Self Assign	When enabled, requests created by a Technician will automatically be assigned to that Technician.
Notify on New	Determines who is informed about the creation of a new request.
	<i>Technician</i> - notifies only the Technician assigned to the request. (This is the default setting.)
	<i>Layer</i> - notifies all members in Layer One of the Team assigned to the request.
	Select Team - notifies all members of the Team.
Notify on Update	Determines who is informed when a request is updated.
	<i>Technician</i> - notifies only the Technician assigned to the request.(This is the default setting.)
	<i>Layer</i> - notifies all members in Layer One of the Team assigned to the request.
	Select Team - notifies all members of the Team.
Notify on Escalate	Determines who is informed when a request is escalated.
	<i>Technician</i> - notifies only the Technician assigned to the request.(This is the default setting.)
	<i>Layer</i> - notifies all members in Layer One of the Team assigned to the request.
	Select Team - notifies all members of the Team.

Options	Description
Incident/Problem Queue	Allows the Team to use a holding bay for Incidents/ Problems that are received via email or the Customer Portal. (This option is visible if it has been enabled by the Administrator.)
	If the Team has only one Technician assigned to Layer One of Escalation, new Incidents are automatically assigned to that Technician and that Technician is notified of the new Incident assignment.
	If the Team has multiple Technicians assigned to Layer One of Escalation, the new Incident is placed in the Queue (i.e., it is assigned to the System User) and all members of the Team are notified that a new Incident has been assigned to the Incident Queue. See: Queues.
Queue Visibility	When the Incident Queue is enabled, the option can be refined to allow the Queue to be available for assigned Workflow entry points, or all stages of the assigned Workflow. If All States is enabled, Users can move requests back to the Queue throughout the request lifecycle. See: Queues.
Edit Assign	When set to Yes and a request assigned to the System User (i.e., Queue) is opened in Edit Mode, the system will automatically assign the request to the User editing the request if they are in the Escalation Layer associated with the request.
Close Assign	When set to Yes and a request assigned to the System User (i.e., Queue) is moved to an Exit State of the Workflow, the system will automatically assign the request to the User who prompted the close action.

- 8. Complete the Team Location details, if required
- 9. Select Technicians from the Available Technicians list

Highlight Technician names within the Available Technicians list and click the arrow icon to move the Users to the Selected Technicians list.

10. Click Next

The Service Screen displays all Available OLAs and Workflows

Team Information			
Information	Service Layers		
Agreements			
OLAs	Available OLAs		Selected OLAs
	No OLAs available		None selected
Workflows			
Workflows	Available Workflows		Selected Workflows
	Incident Workflow	0	None selected
Default Workflow	•		
			Cancel Next

11. Assign the relevant OLAs within Available OLAs list (Optional)

Highlight the Team Name and click the arrow icon to move an OLA to Selected OLAs list. Assigning an OLA to the Team ensures the Team's details will be selectable when the assigned OLA is associated with a Workflow State.

12. Assign the relevant Workflows within the Available Workflow list

Highlight the Workflow Name and click the arrow icon to move the Workflow into the Selected Workflows list. Assigning Workflows to the Team ensures the Team is displayed as an option within the request Summary tab when the associated Workflows are assigned to a request.

- 13. If more than one Workflow is assigned, select a Default Workflow form the drop-down list
- 14. Select Next

The Escalation screen appears. This allows Escalation Layers and Technician assignment to be configured.

- 15. To edit the Default Layer, select the link
- 16. Move Technicians between the Available and Selected boxes and amend the Layer Name, if required

Team Information					
Information	Service Lay	vers			
Layer Name	Default layer				
Technicians	Available Technician	s		Selected Technicians	
	Ingo Engels	~ 	0	Craig Wilson	×
			(Cancel	Save

- 17. Click Save
- 18. To create additional Escalation Layers, select New

By default the Team Lead will always be assigned to the Escalation Layer upon creation.

19. Click on the Layer link to edit the Technician assignment and Save

Team Information					
Information	Service	Layers			
					TeamSMG
Escalations					
	Order 🚊	Name	Assigned Technicians		
	1	Layer 1	Craig Wilson		
	2	Default layer	Ingo Engels Craig Wilson		
		1 - 2 of 2 Res	sults		
			Cancel	New	Save

- 20. To delete a Layer, select the Layer Name
- 21. Click the Delete button and Save.

1.22.3 Creating and Configuring Additional Escalation Layers

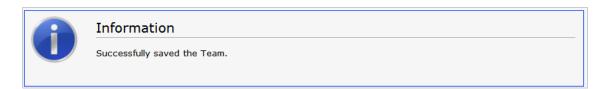
Additional escalation levels can be created, if required. The order of the escalation pathway is determined by the order of creation. That is, layer one is entry level support, layer two is the next level of support and so on.

- 1. Select Team Information>Layers
- 2. Click Edit to display the New button

The Technicians who are assigned to the Team are displayed in the Available Technicians list

3. Add and/or remove Technicians from the Escalation Layer Members list

4. Click Save.



1.22.4 Editing an Escalation Layer

To edit an Escalation Layer with the Team Information screen in Edit mode:

- 1. Select the Layers tab
- 2. Click on the Layer name hyperlink

The list of available and assigned Technicians is displayed.

3. Remove and add Technicians, as required

Highlight the User Names within the relevant list and click the arrow to move the User to the required list.

Team Information					
Information	Service Layers				
Laver Name	Default layer				TeamSMG
Technicians	Available Technicians		Click to swap users between Technicians li: /	sts Selected Technician	6
	Ingo Engels	*	0	raig Wilson	*
		Ŧ			Ŧ
			Delete	Cancel S	ave

4. Select Save.

1.22.5 Configuration of Escalation Layers

The following process is recommended for configuring Escalation Layers. Level one should contain the majority of Available Technicians who have been assigned to the Team. A smaller but more experienced group should be assigned to the second level. An even smaller and more experienced group should be assigned to the third level and so on until the final level of escalation. Ideally, the last layer should contain only the Team's Lead Technician.

There are no constraints to prevent individual Technicians from being assigned to more than one level. However, for a Technician to be able to edit a request they must be a member of the assigned Team, although they do not need to be included in an escalation layer.

To remove a User from a Team:

1. In the User tab, click Users

The User Information screen appears.

- 2. Click on the name of the User
- 3. Select the Team tab
- Click on Edit The Remove button is displayed.
- Select the checkbox to the left of the Team Name Multiple check boxes can be selected.
- 6. Select Remove to delete the User from a Team The User Name is removed from the Team.
- 7. Click Done.

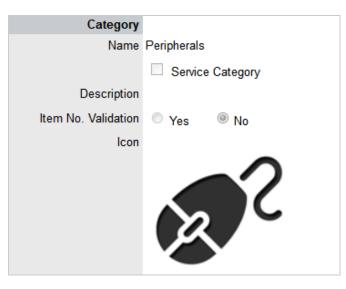
1.23 Service Portfolio Team

The Service Portfolio Team is responsible for overseeing the creation and publication of all service offerings in the Service Portfolio, which include:

- Services under development
- Services in production and operation, stored in the Service Catalog
- Retired and discontinued services.

1.23.1 Working with Service Portfolio Teams

To maintain control of the creation, editing and deletion of Service Items within the CMDB, Service Portfolio Teams can be assigned to Service Category templates. Included within these Teams are Groups of Users who are responsible for managing Item information at the various stages of the Service Lifecycle.



When Service Portfolio Teams are configured within the application, the option to assign a Service Portfolio Team is displayed within Service Category templates in the Configuration>Categories tab. This allows for the Groups that are created within the Team, to be assigned to the different Category Lifecycle States included in the Lifecycle Map displayed in the Item Categories>Life Cycle tab.

Service Team			
Group	Operations	¢	

Assigning Groups to Category Lifecycle States allows the Users within the Group to edit the details of an Item when it is assigned that stage of the Category Lifecycle.

NOTE: When creating the Teams, it is suggested that the Group names reflect the stage of the Service Lifecycle, for instance Service Design, Service Implementation, Service Operation, Service Quality Control and Catalog Management.

1.23.2 Creating a Service Portfolio Team

To create a Service Portfolio Team:

- 1. Select User>Teams
- 2. Click New
- 3. Enter the Team Name
- 4. Select the Service Portfolio Process

Team Information			
Information	Service		
Details		Location	
Team Name		Address	
Process	Incident	City	
Team Lead	Service Request Incident Problem	State	
Incoming Email	Change Request	Zip	
Email Display Name	Release Service Portfolio	Country	•
Customer Notification	Email	Phone	
Technician Notification	Email 💌		
Live Priority	◎ On ◎ Off		
Self Assign	◎ On		
Notify on New	Technician Cayer Team		
Notify on Update	Technician Layer Team		
Notify on Escalate	Technician Cayer Team		
Members			
Technicians	Available Technicians		Selected Technicians
	Craig Wilson Ingo Engels Joe K Kamal K Sankar R Vaibhav Jain	0	None selected
			Cancel Next

- 5. Complete the Team Location details, if required
- 6. Select Technicians from the Available Technicians list

Highlight Technician names within the Available Technicians list and click the arrow icon to move the Users to the Selected Technicians list.

- 7. Set the Team Lead
- 8. Click Next

The Service Screen moves to the Group tab where the Users are assigned the various Groups that are provided the privilege of managing Item information and lifecyle status as part of managing the Service Portfolio. Some suggested Groups include Service Design, Service Implementation, Service Operation, Service Quality Control and Catalog Management.

Team Information			
Information	Group		
			Portfolio
Groups			
	Name	🛓 Assigned Technicians	
	Design	Craig Wilson	
	Management	Craig Wilson	
	Operations	Craig Wilson	
		1 - 3 of 3 Results	
		Cancel	New Save

- 9. For each Group link, click to assign Users to the Team
- 10. Move Technicians between the Available and Selected boxes

Team Information					
Information	Group				
Group Name Group Type Technicians			Select to swap users between Technicians lists Selected Technicians		Portfolio
	Ingo Engels	*	0,0	Craig Wilson	A A
		Ŧ	Delete	Cancel	• Save

- 11. Select Save
- 12. Click New, to add other Groups to the Team Assign Users as required and Save.
- 13. Click Done.

1.23.3 Removing Team Members from a Group

To remove a User from a Group, with the Team Information screen in Edit mode:

1. Click on the Group Name hyperlink

The lists of Available and Selected Technicians are displayed.

- 2. Remove and add Technicians, as required
- 3. Select Save.

1.23.4 Removing a User from a Team

To remove a User from a Team:

1. In the User tab, click Users

The User Information screen appears.

- 2. Click on the name of the User
- 3. Select the Team tab
- 4. Click on Edit

The Remove button is displayed.

- 5. Select the checkbox to the left of the Team
- 6. Click Remove.

If the User is not the only person assigned to an escalation layer of the selected Team, the User will be successfully removed from the Team.

1.24 Release & Deployment Team

The Release & Deployment Team is responsible for the planning, scheduling and controlling of changes and updates from Test to Live environments.

Release Managers, as part of a Release Team, direct the process using all information presented to help assess release readiness, and to efficiently identify deployment targets for the deployment phases of a release. This level of control guarantees the Release Manager can deliver updates to the live environment successfully, to all relevant parties, on time.

The Deployment component of the Release Team covers the activities or tasks responsible for moving new or changed hardware, software, documentation and process to the Live Environment.

1.24.1 Working with Release Management Teams

To plan, schedule and control changes and updates from Test to Live environments, Release Management Teams are assigned to Releases within the Change>Releases tab. Included within these Teams are Groups of Users who are responsible for managing the various stages of the Release Lifecycle.

Details	
Name	
Priority	Low
Team	•
Group	
Workflow	•

When Release Teams are configured within the application, Technicians with the Release and/or Deployment Process are associated with the Team. Managers with the Release Process are assigned to the Approval States of the Release Workflow. Technicians assigned the Release Process can be assigned to States of the Release Workflow, while Technicians only assigned the Deployment Process are placed in the Deployment Group and are responsible for completing the Deployment Tasks created for a Release.

1.24.2 Creating a Release & Deployment Team

To create a Release and Deployment Team:

- 1. Select User>Teams
- 2. Click New
- 3. Enter the Team Name
- 4. Select the Release Process

Team Information			
Information	Service		
Details		Location	
Team Name	Release Team	Address	
Process	Incident	City	
Team Lead	Service Request Incident Problem	State	
Incoming Email	Change Request	Zip	
Email Display Name	Release Service Portfolio	Country	•
Customer Notification	Email	Phone	
Technician Notification	Email 💌		
Live Priority	◎ On [●] Off		
Self Assign	On Off		
Notify on New	Technician Layer Team		
Notify on Update	Technician Layer Team		
Notify on Escalate	Iechnician Cayer Team		
Members			
Technicians	Available Technicians		Selected Technicians
	Craig Wilson Ingo Engels Joe K Kamal K Sankar R Vaibhav Jain +	0	None selected
			Cancel Next

- 5. Complete the Team Location details, if required
- 6. Select Technicians from the Available Technicians list

The Technician List consists of Users assigned the Release and/or Deployment Process in their User Information screen.

Highlight Technician names within the Available Technicians list and click the arrow icon to move the Users to the Selected Technicians list.

NOTE: Technicians with the Release Process will be available for assignment within the Release Workflow States in the Team Information>States tab

Technicians only assigned the Deployment Process will be available for assignment to the Deployment Group, who will complete the Deployment Tasks generated as part of the Release.

1. Set the Team Lead

The Team Lead options are drawn from the Assigned Technicians who are assigned the Release Process.

2. Select Managers from the Available Managers list

The Manager List consists of Users assigned the Release Process in their User Information screen.

Highlight Manager names within the Available Managers list and click the arrow icon to move the Users to the Selected Managers list.

3. Click Next

The Information screen moves to the Service tab where the Release Workflows are associated with the Team.

Team Information		
Information	Service Group	States
Workflows		
Workflows	Available Workflows	Selected Workflows
		Release Workflow
	No Workflows available	
		v
Default Workflow	Release Workflow	
		Cancel Next

- 4. Move the relevant Available Workflows to the Selected Workflows field
- 5. Set the Default Workflow

If a single Workflow is assigned to the Team it is automatically applied as the Default Workflow.

Assigning Workflows to the Team ensures the Team is displayed as an option within the Deployment Summary tab when the associated Workflows are assigned to a Task.

6. Click Next

The screen defaults to the Groups tab that lists the default deployment, manager and release Groups. The Groups automatically apply the Team Lead to the Groups and require additional Technician and User assignments.

7. Select the Default Deploy Group

The Group Name can be edited and the Available Technicians and Selected Technicians fields are now accessible. As a Deployment Group Type, this group of Users will be available for assignment for Deployment Tasks created as part of a Release Workflow.

- 8. Rename the Group, if relevant
- 9. Move the relevant Users between the Available and Selected boxes

The Users displayed in the Available Technicians list have been assigned the Deployment Process in their User Information screen.

Team Information					
Information	Service	Group	States		
					ReleaseT
Group Name	Default Deploy Group				
Group Type	Technician Manag	er 💿 Deployment			
Technicians	Available Techni			Selected Technic	cians
	Joe K	*	000	Ingo Engels Craig Wilson	4
		(Delete	Cancel	Save

- 10. Select Save
- 11. Edit the assigned Users in the Manager and Release Groups

The default Manager Group will be automatically applied to all Approval States of the Release Workflow. The Release Group of Technician Users will be automatically applied to all non-approval States of associated Release Workflows. These assignments can be edited within the States tab.

12. Create additional Manager, Release or Deployment Groups, if relevant

Information	Service	Group State:	5	
				ReleaseT
Groups				
	Name	🛓 Assigned Technicians	Assigned Managers	Group Type 🔳
	Default Deploy Group	Ingo Engels Craig Wilson		Deployment
	Default Manager Group		Mike S	Manager
	Default Release Group	Craig Wilson		Technician
		1 - 3 of 3 Res	sults	
		Ca	nncel New	Next

13. Click Next

The system moves to the States tab to display the list of Workflows associated with the Team, and the list of States included in the selected Workflow.

- 14. Select a State link to amend the assigned Work Group
- 15. Assign the relevant Group of Users to the Workflow State

Team Information			
Information	Service	Group States	
			ReleaseT
Workflows	Release Workflow	•	
States			
	Name	🛓 Assigned Groups	
	Build	Default Release Group	
	Closed	Default Release Group	
	Deploy	Default Release Group	
	Deploy Approval	Default Manager Group	
	Plan	Default Release Group	
	Plan Approval	Default Manager Group	
	Rejected	Default Release Group	
	Rework	Default Release Group	
	Test	Default Release Group	
		1 - 9 of 9 Results	
			Cancel Save

- 16. Click Save and continue to adjust all the relevant assignments
- 17. Click Save
- 18. Click Done.

The Release & Deployment Team is fully configured.

1.24.3 Removing Team Members from a Group

To remove a User from a State or Group, with the tab in Edit mode:

- 1. Click on the State or Group Name hyperlink to display the list of available and assigned Technicians
- 2. Remove and add Technicians, as required
- 3. Select Save.

1.24.4 Removing a User from a Team

To remove a User from a Team:

1. In the User tab, click Users

The User Information screen appears.

- 2. Click on the name of the User
- 3. Select the Team tab
- 4. Click on Edit

The Remove button is displayed.

5. Select the checkbox to the left of the Team

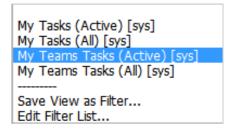
6. Click Remove.

If the User is not the only person assigned to an escalation layer of the selected Team, the User will be successfully removed from the Team.

1.25 Queues for requests

The Queues functionality allows for requests, Incidents, Service Requests or Problems, to be assigned to the System User as part of a Team holding bay. Users within the Team with the Queue option enabled can select relevant requests they decide to work on, or manually assign the System User assigned requests to an appropriate User.

Requests that are assigned to the Queue are allocated to the System User, until they are manually reassigned to a specific User. The unassigned requests are located within the Home tab My Teams Queued Tasks, or the Operations>Incidents tab Filter option called Incident Queue for new Incidents, the Service Requests within the Service Request Queue in the Operations>Service Requests tab and the Operations>Problems tab Filter option called Problem Queue for new Problems.



When the Queue feature is enabled for the application, it can be applied on a Team by Team basis. This means some Teams can be configured to use the business logic of the application for assigning requests to specific Users. While other Teams can use the Queue to select the requests they want to work on, or allows other Users to manually assign the request to a relevant User.

When the Self Assign and Queue options are enabled for a Team and a request is created by a Technician User, the Self Assign option will override the Queue assignment and allocate the request to the User creating the request, if they are in the first layer of escalation. The User can assign the request to the Queue by selecting the System User in the Technician list.

Escalation	🖲 On 🔘 Off
Escalation Layer	(Layer 1 of 1)
Technician	Jill Brown
	Jill Brown
	System User

1.25.1 Enabling the Queue

By default, the Queue functionality is disabled in the application Setup. To enable the Queue:

- 1. Log in as an Administrator
- 2. Select Setup>Privileges
- 3. Select the Request tab

Privileges	
User Cust	omer Requests System
Requests	
Enable Escalation Control	Yes No
Queues	On Off

- 4. Enable the Queues option
- 5. Click Save.

To enable the Queue for a Team:

- 1. Log in as a Supervisor
- 2. Select the User>Teams option
- 3. Select the relevant Team link

Team Information			
Information	Service Layers		
Duplicate			BYOD-Incident-Team
Details		Location	
Team Name	BYOD-Incident-Team	Address	
Process	Incident	City	
Team Lead	Joe K	State	
Incoming Email		Zip	
Email Display Name		Country	•
Customer Notification	Email	Phone	
Technician Notification	Email		
Live Priority			
	© On ● Off		
_	 Technician Layer Team 		
	Technician Layer Team		
	Technician Layer Team		
	● On ○ Off		
Queue Visibility	Entry States All States		
Edit Assign	Ves No		
Close Assign	Yes		
Members			
Technicians	Available Technicians		Selected Technicians
	Craig Wilson Kamal K Sankar R Vaibhav Jain		Ingo Engels Joe K
		Delete	Cancel Save

- 4. Click Edit
- 5. Enable the Queue option

The following options can then be applied to the Queue:

Options	Description
Service Request /Incident/Problem Queue	Allows the Team to use a holding bay for Incidents that are received via email or the Customer Portal. (This option is visible if it has been enabled by the Administrator.)
	If the Team has only one Technician assigned to Layer One of Escalation, new Incidents are automatically assigned to that Technician and that Technician is notified of the new Incident assignment.
	If the Team has multiple Technicians assigned to Layer One of Escalation, the new Incident is placed in the Queue (i.e., it is assigned to the System User) and all members of the Team are notified that a new Incident has been assigned to the Incident Queue. See: Queues.
Queue Visibility	When the Incident Queue is enabled, the option can be refined to allow the Queue to be available for assigned Workflow entry points, or all stages of the assigned Workflow. If All States is enabled, Users can move requests back to the Queue throughout the request lifecycle. See: Queues.
Edit Assign	When set to Yes and a request assigned to the System User (i.e., Queue) is opened in Edit Mode, the system will automatically assign the request to the User editing the request if they are in the Escalation Layer associated with the request.
Close Assign	When set to Yes and a request assigned to the System User (i.e., Queue) is moved to an Exit State of the Workflow, the system will automatically assign the request to the User who prompted the close action.

7. Set the Queue Visibility

Select All States if Team members are to be allowed to return a request to the Queue regardless of the assigned Workflow State.

8. Set the Edit Assign option

Select Yes, if a request that is assigned to the System User/Queue is to be automatically assigned to a User in the first layer of escalation who opens the request in Edit mode.

9. Set the Close Assign option

Select Yes, if a request that is assigned to the System User/Queue is to be automatically assigned to the User who initiates an action that results in the request being moved to an Exit State.

10. Select Save.

1.25.2 Assigning requests from a Queue

All requests displayed within a Queue list are assigned to the System User. To reassign the request to an appropriate User:

- 1. Select the Request # hyperlink
- 2. Click Edit
- 3. Select an appropriate User from the Technician list

The request will now be assigned to the new User and removed from the Queue.

Escalation	◉ On © Off		
Escalation Layer	(Layer 1 of 1)		
Technician	Kamal K	S,	\sim
Subject	Kamal K Sankar R]	

4. Click Save.

1.25.3 Reassign a request to the Queue

When the All States option has been enabled for the Queue within the Team Information screen, the System User will be retained in the Technician drop-down list for the first layer of escalation after it has been assigned to a User. This allows the assigned User to re-assign the request back to the Queue.

To reassign the request to the Queue/System User:

1. Select the Request # hyperlink

The request should be at layer one of escalation within the assigned Team.

- 2. Click Edit
- 3. Select System User within the Technician drop-down list

The request will now be assigned to the System User and returned to the Queue.

Escalation	● On ◎ Off	
Escalation Layer	(Layer 1 of 1)	
Technician		<i>I</i> ,
Subject	Kamal K Sankar R	

- 4. Click Save
- 5. Click Done.

The system returns to the request list view.

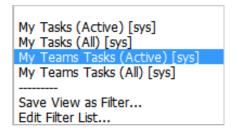
1.25.4 Queue Filter

Teams that use the Queue method for request assignment can view and allocate requests using the My Teams Queued Tasks within the Home tab list filter, or within the Service Request, Incidents or Problems tab Queue list filter. They can also see Queued Tasks within the My Teams Tasks filters.

To view all types of requests assigned to the Queue within one list, use the My Teams Queued Tasks within the Home tab:

- 1. Select the Home tab
- 2. Go to the Filter List
- 3. Select the My Teams Queued Tasks option from the drop down list.

The screen will list all of the Service Requests, Incidents and Problems that are currently assigned to the System User.



To view the Queue within the Service Requests tab:

- 1. Select the Operations>Service Requests tab
- 2. Go to the Filter List
- 3. Select the Service Request Queue option from the drop down list.

The screen will list all of the Service Requests that are currently assigned to the System User.

To view the Queue within the Incidents tab:

- 1. Select the Operations>Incidents tab
- 2. Go to the Filter List
- 3. Select the Incident Queue option from the drop down list.

The screen will list all of the Incidents that are currently assigned to the System User.

To view the Queue within the Problems tab:

- 1. Select the Operations>Problems tab
- 2. Go to the Filter List
- Select the Problem Queue option from the drop down list.
 The screen will list all of the Problems that are currently assigned to the System User.

1.26 Configuration Categories

Within the application the number of Item Categories that can be defined is unlimited. By default the following Categories are included:

- Audio Visual
- Documentation
- Hardware
- Mobile Devices
- Network Infrastructure
- Peripherals
- Printers & Scanners
- Software
- Service.

Within each Category the Lifecycle and Classifications associated with the Category can be defined.

Item Categories
New Delete Duplicate
☑ Item Category ≜
Audio Visual
BYOD Devices
Documentation
Hardware
Mobile Devices
Network Infrastructure
Peripherals
Printers & Scanners
Service
Software
1 - 10 of 11 Results 🚽 🔿

1.26.1 Categories Tab

The default templates set at the Category level are used to cover a broad range of Item Types. Within each default Category the following have been configured, but can be customized as required:

- The Field Labels that will be available on the Details tab of Items using the Category
- The broadest level of Classifications that are assigned as part of the request creation process.

- The Lifecycle stages an Item will move through from being proposed or ordered to decommissioned
- Template responses that Technicians can use when entering a Note for a request that is assigned an Item that uses a Category.

The following table illustrates how Categories can be represented as Manufacturer Models within the Configuration>Types tab:

Category	Proposed Item Type
Hardware	PCs, Servers, Notebooks
Networking Infrastructure	Routers/Switches, UPS, Cabinets, Racks
Mobile Devices	iPhones, PDAs, Windows MDs
Peripherals	Monitors, External Storage Devices, Docking Stations, Barcode Scanners
Audio Visual	Projectors, Electronic Whiteboards
Printers/Scanners	Printer, Scanner
Digital Cameras	Digital Still, Digital Video, Thermal Image
Software	Operating Systems, Databases, Applications
Service	Email, Website.

The easiest way to create additional Categories, is to duplicate a default Category and tailor it to the organizational requirements.

A Service Portfolio Team can be assigned to the default Service Category by creating the Team within the User>Teams screen, then selecting Edit within the Categories tab of the Service Item Category.

NOTE: The **Reconcile Based On** option is available only for the hardware category. You can select any unique field as the reconciliation field so that the configuration management system ensures and maintains it as a unique hardware item.

Creating a Category

1. Select Configuration>Categories

The Item Categories screen appears.

2. Click New

Item Categories	
Category	
Category	
Name	New Category
	Service Category
Description	h.
Item No. Validation	🔘 Yes 🛛 🔘 No
Fields	
	Generated on Save
	Cancel Save

- 3. Enter the name of the new Category
- 4. Complete the Description

Content entered in this field is visible when the User scrolls over the Category Name in the Item Category list.

5. Click Save

The Item Categories screen expands to display the options to upload an Item Category icon and customize Field labels.

NOTE: The Item No. Validation option is displayed, if the Admin>Setup>Privileges>System> Edit Item Numbers is set to Yes

This displays the Input Mask and User Mask fields, which are explained in the Categories Fields table below.

1. Check the Service Category field if the template is to be used for a Service Item

Ticking this option displays the Portfolio Team drop-down list, ifService Portfolio Teams have been created within the application. This allows Groups within the Service Portfolio Teams to be assigned to the different stages of the Item Lifecycle, and activates Service Catalog Management functionality within the Cost Tabs of Types and Items that use the template.

NOTE: Customers cannot create Items using Item Categories that have the Service Category option enabled

Item Categories						
Category	Lifecycle	lassifications	Responses	Types		
Duplicate					sam	ple category
Category						
Name	sample category					
	Service Category					
Description	new sample catego:	ry 				
Item No. Validation	🔍 Yes 🛛 🔍 No					
Icon						
	?					
Fields						
Ordering	Alphabetical Sys	tem 🔘 User Defined			Act	ions: 🥑 😢
	🖾 Label	Data	Type Fiel	d Style	Active	Required
	Field 1	Strin	g field	1 Text	0	
	Field 10	Strin	g field	10 Text	9	

1. Select the icon to be replaced, to change the Icon image for the Item Category

This icon is used as the generic visual representation of the Item Category in the Relationship Map. This can also be refined at the Item Type level.

	Icon	Browse 128 x 128	No file selected.	😢 📀
	Use the	Upload to upload a	a new image or Cancel to c	ancel the upload.
	NOTE: The d	limensions of the uplo	aded icon must be exactly 128 x 12	28 pixels
2.	Customize th	he Field Labels		
	Custom field	ls are visible in the Det	tails tab of Items that use the Cate	gory.
3.	Click the Fie	ld Label link to open it	in Edit mode and display the follow	wing options:
	Categories Fie	elds	Description	
	Category			

Categories Fields	Description	
Field Label	The name defines what attribute information is to be recorded in the field.	
Active	Indicates if the field will be visible in the Details tab of an Item.	
Required	Indicates if the field is required or mandatory field.	
Customer Visible	Defines if the Customer can see the field within the	
	Customer Portal.	
	If Yes is selected, define if the Customer can edit the field information on the Customer Portal.	
Data Type	Dictates the field's Data Type. The options available include :	
	 String - List or Free Text 	
	Number	
	 Boolean - radio buttons for Yes/No and True/ False 	
	 Date - creates a date field 	
	 Currency- creates a currency field 	
	 Hyperlink. 	
Style	States the style of the field.	
	eg. String- List or Free Text field. SeeLists for more information on creating a list field type.	
Unique Value	When active, the system prevents the duplication of data within the customized field.	
Default Value	Value entered is the default system entry for the field, when the field is not completed manually.	
Input Validation	When enabled the Input Mask and User Mask can be defined.	
	<i>Input Mask</i> : A regular expression to use for data validation of values entered by a User (i.e., Zip/ Post Code, telephone no.)	
	<i>User Mask</i> : A "User Friendly" representation of the Input Mask that Customers can understand should it appear in a validation error message.	
Enable Description	When enabled a Description field appears, allowing the User to enter details of what information is the field is expected to capture. These details are accessible next to the custom field on the relevant screen.	

4. Click Save to complete the field label configuration

Continue to customize all fields as required.

5. Define the ordering preference

The option defined here dictates how the fields appear on the Item Details tab.

To move a field, select the checkbox beside the field label followed by the 🐼 🔮 to move the label up and down the list. To multi-select fields, tick the checkboxes beside the label name and click 🐼 to activate or 🔯 to deactivate the fields.

The field order can be set to:

- Alphabetical the fields will be presented according to the alphabet order of the first letter.
- System the fields will appear in the order they are entered into the system.
- User Defined the fields can be manually adjusted by the User using the system buttons.
- 6. Click Save.

Modify the Category Lifecycle, Classifications, Responses and, if the system is synched with more than one asset management discovery tool the Federated templates, if necessary.

Duplicating a Category

To fast track the creation of an Item Category, each can be duplicated.

To duplicate an existing Category:

- 1. Select Configuration>Categories
- 2. Tick the box to the left of the Category name

Item Categories	
New Delete Duplicate	
Item Category	≜.
Audio Visual	
BYOD Devices	
Documentation	
Hardware	
Mobile Devices	
Network Infrastructure	
Peripherals	
Printers & Scanners	
Service	
Software	
1 - 10 of 11 Results 🚽 🚽	

3. Click Duplicate

A new Category hyperlink is added to the Category list. The new Category will contain the same custom fields, lifecycle and classifications of the original Item Category.

Ite	Item Categories		
	New Delete Duplicate		
	Item Category	<u>å</u>	
	Audio Visual		
	BYOD Devices		
	BYOD DevicesCopy32		
	Documentation		

4. Modify the new Category as required.

Editing and Configuring an Item Category Template

After an Item Category has been duplicated it can be modified to represent the new Item Category.

To edit a Category:

- 1. Select Configuration>Categories
- 2. Click on the appropriate hyperlink

The screen defaults to the Categories>Categories tab.

- 3. Click Edit
- 4. Enter the name of the new Category
- 5. Complete the Description

Content entered in this field is visible when the User scrolls over the Category Name in the Item Category list.

6. Click Save

The Item Categories screen expands to display the options to upload an Item Category icon and customize Field labels.

NOTE: The Item No. Validation option is displayed, if the Admin>Setup>Privileges>System> Edit Item Numbers is set to Yes. This displays the Input Mask and User Mask fields, which are explained in the Categories Fields table at Point 9.

1. Check the Service Category field if the template is to be used for a Service Item

Ticking this option, displays the Portfolio Team drop-down list, ifService Portfolio Teams have been created within the application. This allows Groups within the Service Portfolio Team to be assigned to the different stages of the Item Lifecycle, and activates Service Catalog Management functionality within the Cost Tabs of Types and Items that use the template.

NOTE: Customers cannot create Items using Item Categories that have the Service Category option enabled

Item Categories						
Category	Lifecycle	Classifications	Responses	Types		
Duplicate					5	ample category
Category						
Name	sample category					
	Service Category					
Description	new sample cate	gory				
Item No. Validation	🔍 Yes 🛛 🔍 No					
lcon	?					
Fields						
Ordering	Alphabetical	System 🔘 User Define	d			Actions: 🤡 😫
	🖾 Label	Dat	a Type Fi	ield	Style Acti	ve Required
	Field 1	Stri	ng fi	eld1	Text (2
	Field 10	Stri	ing fi	eld10	Text (2

1. Select the icon to be replaced, to change the icon image for the Item Category

This icon is used as the generic visual representation of the Item Category in the Relationship Map. This can be refined at the Item Type level.

Icon	Browse No file s	selected.	😧 🕢
	128 x 128		
Use the	Upload to upload a new image or	Cancel to cancel the u	pload.

NOTE: The dimensions of the uploaded icon must be exactly 128x128 pixels

Version 7.0 will not apply these icons in the Relationship Map, but they will be used in a future release

1. Customize the Field Labels

Custom fields are visible in the Details tab of Items that use the Category.

Click the Field Label link to open it in Edit mode and display the following options:

~	
•)	
2	

Categories Fields	Description
Category	
Field Label	The name of the field.
Active	Indicates if the field is active.
Required	Indicates if the field is required or mandatory field
Customer Visible	Defines if the Customer can see the field within the
	Customer Portal.
	For a Service Category, if it is relevant to display costs or other specific details regarding a Service on offer in the Services Tab of the Customer Portal, then set relevant attribute fields to being Customer Visible.
Data Type	Dictates the field's Data Type. The options available include :
	 String - List or Free Text
	Number
	 Boolean - radio buttons for Yes/No and True/ False
	 Date - creates a date field
	 Currency- creates a currency field
	 Hyperlink.
Style	States the style of the field.
	eg. String- List or Free Text field. SeeLists for more information on creating a list field type.
Unique Value	When active, the system prevents the duplication of data within the customized field.
Default Value	Value entered is the default system entry for the field, when the field is not completed manually.
Input Validation	When enabled the Input Mask and User Mask can be defined.
	<i>Input Mask</i> : A regular expression to use for data validation of values entered by a User (i.e., Zip/ Post Code, telephone no.)
	<i>User Mask</i> : A "User Friendly" representation of the Input Mask that Customers can understand should it appear in a validation error message.

Categories Fields	Description		
Enable Description	When enabled a Description field appears, allowing the User to enter details of what information is the field is expected to capture. These details are accessible next to the custom field on the relevant screen.		

3. Click Save to complete the field label configuration

Continue to customize all fields as required.

4. Define the ordering preference

The option defined here dictates how the fields appear on the Item Details tab.

To move a field, select the checkbox beside the field label followed by the 🐼 💇 to move the label up and down the list. To multi-select fields, tick the checkboxes beside the label name and click 🐼 to activate or 🔯 to deactivate the fields.

The field order can be set to:

- Alphabetical the fields will be presented according to the alphabet order of the first letter.
- System the fields will appear in the order they are entered into the system.
- User Defined the fields can be manually adjusted by the User using the system buttons.
- 5. Click Save.

Modify the Category Lifecycle, Classifications, Responses and, if the system is synched with more than one asset management discovery tool, the Federated templates, if necessary.

1.26.2 Item Reconciliation

The Reconcile Based On option is available only for the mobile devices and hardware. You can select any unique field as the reconciliation field so that the configuration management system ensures and maintains it as a unique item.

• Select any unique field as the reconciliation field in the Reconcile Based On drop-down.

To make a field unique, select any field (Example: MAC Address, IMEI Number or Serial Number) on which you want to reconcile the item and make it unique by selecting the Unique Value checkbox.

NOTE: • Item Reconciliation is applicable only for Item Import through ZENworks Import.

• If the Service Desk already has duplicate items, then those items will not be reconciled.

1.27 Service Item Costs Tab

The Costs Tab of a Service Item includes information related to the financial and contractual details associated with the Item. The information more specifically related to the Service Item is recorded in the Charges and Revenue fields, as this information allows service and support organizations to calculate the costs of offering a service and if appropriate, recover the costs from the relevant parties.

As with other Item Types, the screen includes general Item details such as:

- Base cost
- Purchase date and related information
- Depreciation data
- SLA and Contract details.

The Information recorded on the Costs Tab includes:

Financial	Description
Cost	The financial investment made to purchase the Item. This figure is also used when the Delegate Costs is enabled for allocating costs across related Items.
	NOTE: Typically for Service Items, the infrastructure costs would be zero as this would be derived from the associated Parent Items.
Monthly Cost	The amount invested on a monthly basis to maintain the running of an Item. This figure is also used when the Delegate Costs option is enabled for allocating costs across related Items.
Usage Unit Cost	This is used as a reference field, where the User can enter base unit cost, for example per Megabyte data charge, which can be used for calculating costs in custom reports.
Purchase Date	The date the Item was purchased.
Depreciate Over	Enter the number of years the Item is to be depreciated over, if required.
Depreciated Value	The system calculates the current value of the Item based on the Purchase Date and the number of years the Item is to be Depreciated Over.
Audit Date	Set the date the Item is next to be audited.
PO Number	If Purchase Orders are enabled for the system, the field is visible and automatically populated with the PO number generated by a User within the Finance>Purchase Orders tab, when the Item order was recorded in the system.
Charges	

Financial	Description
Price (per user)	Draws the figure from the Service Item Type Costs tab and displays this as a daily amount. This figure is then multiplied with the number of Users/Customers assigned to the Item, to calculate the forecasted Revenue.
Cost (per user)	Draws the figure from the Inherited Costs and displays this as a daily amount. This figure is then multiplied with the number of Users/Customers assigned to the Item, to calculate the actual Costs.
Revenue	
Month to Date	Uses the Charges Price figure, multiplied by the number of Users and days of month passed, to calculate the month to date figure.
Previous Month	A reference figure for an average monthly revenue figure, based on the previous month's revenue for the Service Item.
Costs	
Month to Date	Uses the Charges Cost figure, multiplied by the number of Users and days of month passed, to calculate the month to date Cost.
Previous Month	A reference figure for an average monthly cost, based on the previous month's cost for the Service Item.
Inherited Costs	
Inherited Capital	Total infrastructure costs of parent CI's that directly contribute to the cost of the Service Item. This figure is derived from all the Cost fields within the Item Information>Costs tab of related Parent Items.
Inherited Ongoing	Running costs of all associated Items that enable the Service Item to continue to function. This figure is derived from all the Monthly Cost fields within the Item Information>Costs tab of related Parent Items.

Financial	Description
Delegate Costs	To enable cost delegation across the relationship map allowing associated Items to inherit the costs of the current CI, select Yes. This will take the figures from the Cost and Monthly Cost fields for the Item and apply them across related Child Items.
	Define the technique to be used to evaluate the cost split:
	<i>Child Count</i> :Costs are split by percentage based on the number of child CI's the costs are being delegated across.
	User Count:Costs are split proportionally based on the number of users of the child CI's the costs are being delegated across.
	<i>Custom %</i> : The relationship itself allows for the % cost to be assigned
Availability	
Avg Repair Time	Entries displayed here are automatically calculated based on the average length of time an Item is offline.
Avg Time To Fail	Figures displayed here are automatically calculated based on the average time between an Item being moved to an offline State.

The figures displayed within the Availability fields are automatically calculated by the application, using the Item Lifecycle as it moves between online and offline States.

Information				
Information	Details	Costs	Requests	lelationships
Edit	Duplicate	😫 Print		Item # 100002 (Service Des
Financial			SLA Details	1
Cost	\$0.00		Service Leve	(
Monthly Cost	\$0.00			
Usage Unit Cost			1429 V 2750 H 1250 545 A	
Purchase Date			Availability	and the second sec
Depreciate Over	years		Avg Repair Time	
Depreciated Value	\$0.00		Avg Time To Fai	il 44 Days, 22 Hrs, 24 Mins
Audit Date (mm/dd/yy)				
PO Number				
Charges				
Price (per user)	N/A			
Cost (per user)	N/A			
Revenue				
Month to Date	N/A			
Previous Month	N/A			
Costs				
Month to Date	N/A			
Previous Month	N/A			
Inherited Costs				
Inherited Capital	\$12,000.00			
Inherited Ongoing	\$150.00			
Delegate Costs	Yes No			
				Done

Completing the Depreciate Over field allows the application to automatically keep track of the Item depreciation over the specified number of years. The current value of the Item after depreciation is displayed at Depreciated Value. The Audit Date field is used to record the date when the Item was last audited.

1.27.1 Billing Enabled

When Billing is enabled, a Service Level hyperlink is available within the Costs screen. This provides access to the Service Level Agreement details that govern the lifecycle for Requests logged against the Item.

Information	Detail	s	Costs	Requests	Relationships		
Duplicate	Print					ltem # 100	0002 (Service Des
Financial				Contra	ct		
Cost	0.00			Service Lev	el 🚱 Gold		
	(2)22			Contract	# 7		
Monthly Cost	0.00			Start Da	te 05/09/11		
Usage Unit Cost				End Da	te 05/08/12		
Purchase Date				Expire	es 11 Months 2	1 Days	
Furchase Date				Availabili	ty		
Depreciate Over			years	Avg Repair Tin	ne N/A		
Depreciated Value	\$0.00			Avg Time To F	ail 44 Days, 22	Hrs, 24 Mins	3
Audit Date			0.0				
(mm/dd/yy) PO Number							
Charges							
Price (per user)	N/A						
Cost (per user)							
Revenue							
Month to Date	N/A						
Previous Month	N/A						
Costs							
Month to Date	N/A						
Previous Month	N/A						
Inherited Costs							
Inherited Capital	\$12,000.00						
Inherited Ongoing	\$150.00						
Delegate Costs	OYes ⊙	No					
							Contracts
Contract#	e	SLA	■ Start Date	End Date	=		
	Item	Gold	05/09/11 00:00	05/08/12 23:59			
, Per	nam		1 - 1 of 1 Results	00/00/12 23.35			

If Invoices are also enabled, an Invoice Number hyperlink is available and when selected, will display the invoice details for the Contract that covers the Item. The Start Date and End Dates stipulate the contract length covered for the Item. It is summarized by the days or hours recorded in the Expires field.

The Contract tab within the Item Information Costs tab summarizes the contract details that cover the Item. Further Contract details can be found within the relevant Contract Number within the Finance>Invoices screen.

1.27.2 Create a Contract

Through the Item Costs tab, Contracts with an associated Invoice Number (if relevant) can be generated for an Item, after it has been logged in the system.

To add a Contract to an Item, within the Configuration>Item screen:

- 1. Select the Item Number
- 2. Move to the Costs tab

3. Click Edit

The Add and Delete button are made available within the Contracts tab

						Contracts
🔄 Contract #		SLA	≣ Start Date	≣ End Date	≣	Add
		0 -	0 of 0 Results			Delete
			Delete	Disable	Cancel	Save

4. Click Add

(If Invoices are enabled in the system, an Invoice number will be automatically generated and assigned to the Contract).

Item Information	
Information	Details Costs Requests Relationships Outages AMIE Snapshots
Contract	
Invoice Number	100016
Service Level	
	Warranty Cancel

5. Select an SLA from the drop-down option

The screen will display the SLA details and the Contract Type locked to Per Item.

Item Information							
Information	Details	Costs	Requests	Relationsh	ips Ou	utages	AMIE Sna
Contract							
Invoice Number	100016						
Service Level	Warranty						
	Priority	Response Time	Restoration Time	Resolution Time	24 x 7 suppo	rt Alert	
	Urgent	6 Hours	12 Hours	24 Hours	Yes	None	
	High	12 Hours	24 Hours	48 Hours	Yes	None	
	Medium	18 Hours	36 Hours	72 Hours	Yes	None	
	Low	24 Hours	48 Hours	96 Hours	Yes	None	
Contract Type	Per Item						
Time	Subscription	-					
01-10-1-	Subscription						
Start Date	Time Limited Support Hour						
End Date	Support Hour]				
Notes							
Price	\$0.00						
Tax	\$0.00						
Taxable							
Total Cost	\$0.00						
						Cancel	Sav

6. Assign the Time period to be covered by the Contract

If *Subscription* is selected, the Start and End Dates are automatically completed by the system, but can be edited if required.

If *Time Limited Subscription* is selected, the Support Hours field is displayed and the number of support hours purchased by the Customer should be entered. Also, the Start Date and End Date fields should be completed manually, entering the length of time for the subscription period.

If *Support Hours* is selected, the number of support hours purchased by the Customers should be entered.

If *Support Hours by Month* is selected, set the number of hours purchased per month and define which day of the month contract is to rollover to start the new month. The Total Support Hours will automatically be calculated based on the Start and End Dates set for the Contract.

(If a Contract is forward dated with a Start Date set in the future, the Pending Contract status is assigned. See Pending Contracts.)

- Subscription a contract that covers a specified period of time
- Time Limited Subscription a contract that covers either a specified period of time or number of support hours, whichever limit is reached first
- Support Hours a contract that defines the number of support hours covered.
- 7. Add any relevant Invoice Notes
- 8. Check the Taxable box, if the Contract is to be taxed
- 9. Click Save.

(If Invoices are enabled in the system, an Invoice number will be automatically recorded for the Contract and made available within Finance>Invoices.)

1.28 Creating Custom Field Lists

Lists can be created as a data type option within custom fields across the application. The can be created for Item Category and Item Type custom fields, Classifications for requests and system-wide custom fields activated by an Administrator. Lists allow a User to create a series of entries for a custom field that will appear as a drop-down option list.

Request	
Request Type	Service Offline
Classification	New Service Request
	Quota Exceeded
Subject	Service Offline

1.28.1 Creating a New List Entry

To create a new list entry within the List Contents field:

1. Right click the Entries link

The Create option is displayed

Style	Text List
List Contents	Entries
Default Value	Create
Enable Description	Rename
Enable Description	Delete
	Cancel Save

2. Click Create

A New node link displayed

Style	Text List
List Contents	🛓 🌆 Entries
	III New node

- 3. Enter the name of the field
- 4. Click outside the field to save the entry

List Contents	🛓 🛺 Entries

5. Repeat this process until all list entries have been added

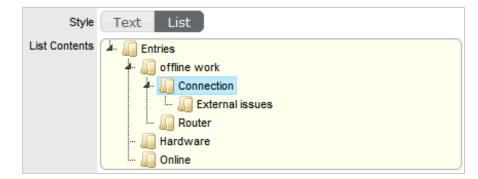
To create a nested list, right click on the relevant list entry and repeat the above process.

🛓 🕼 Entries	
🚛 🚛 offline work	
🚈 🌆 Connection	
🦾 🚛 New node	
🜆 Router	
🛄 Hardware	
🜆 Online	

6. To move an existing entry to a new position, select the entry, then drag and drop the entry into its new location

Style	Text List
List Contents	🛓 🌆 Entries
	 A offline work Connection A Router ✓ Hardware A Hardware A Hardware A Online

7. When all the relevant details have been defined for the custom field, click Save.



1.28.2 Creating Nested List Entries

List entries can be expanded to include nested options.

To create a nested list:

1. Right-click the relevant list entry header

The Create, Rename, Delete and Make Default options are displayed.

Item Categories	
Category	Lifecycle Classifications Responses Types
Classifications	Hardware
	Classifications Configuration Faults Create Rename Delete Make Default
Custom	
	Done

2. Select Create

A text box will appear under the list entry.

A. In Classifications
🖡 🛄 Configuration
🚈 🌆 Faults
🛄 New node
🜆 Downloads
🕼 General (Default)
🕼 Manuals
🛺 Network

3. Enter the name for the list entry

- 4. Click away from the text box to commit and save the change
- Move an existing list entry to a new position, if required Select the entry, then drag and drop the entry into its new location
- 6. The above steps can be repeated until the nested list is complete.



1.28.3 Renaming a List Entry

Any list entry can be renamed.

To rename a list entry:

1. Right-click the list entry link

Classifications	
🗛 📗 Configuration	
🛓 🌆 Faults	
📗 Internal	
📗 External	
📗 Doj 🛛 Create	
- Ge Rename	
Ma Delete	
Make De	fault

- 2. Click Rename
- 3. Edit the field content
- 4. Click away from the text field to save the change.

1.28.4 Deleting a List Entry

To delete a list entry:

- 1. Right-click the relevant list entry
- 2. Click Delete
- 3. Click Done when the list is complete.

1.29 Responses Templates

The Responses tab within an Item Category allows the Supervisor to define template replies for Notes sent related to requests received against the Item Category. This ensures the service desk responds to issues in a consistent manner, and in line with the support organization's policies and protocol. Additional templates can be configured within the Item Type>Responses tab. These templates are only available for requests related to the Item Type.

The following screen displays a list of default template options available within the Notes tab of a request:

Add Note	×
Note Time + 💌 0 (Minutes) 01/20/16 10:22	Select a template
Format 🔹 Font Family 🔹 Font Size 🔹 🕬 🍏 HTML	
$\underline{\mathbf{A}} \star \mathbf{B} \mathbf{I} \underline{\mathbf{U}} \mathbf{APC} \mid \Xi \Xi \mathbf{ii} \mathbf{ii} \Xi \Xi = \mathbf{i} \mathbf{x}_1 \mathbf{x}_2$	
Initial Description Change Request - Item has been marked for creation Path: p	Words:10
	Visibility O Private O Public
Attachments 💽 🐨 🖨	Create Knowledge O Yes O No
	Solution Draft Add Note

1.29.1 Editing a Template

To edit a Response template:

- 1. Go to Configuration>Categories
- 2. Select the hyperlink for the relevant Category

Item Categories	
Category Lifecycle Classifications Responses Types	
Edit	Hardware
I Title	à
Customer Change Request	
Request Log Files	
Request Steps to Replicate Issue	
1 - 3 of 3 Results	
	Done

- 3. Move to the Responses tab
- 4. Click Edit
- 5. Select the relevant Title hyperlink

The template contents are displayed.

Item Catego	ries	
Categor	y Lifecycle Classifications Responses Types	
		Hardware
Template		Insert Parameter
Title	Customer Change Request	
Note	Format 🔹 Font Family 🔹 Font Size 🔹 🕬 🍏 🖬 🖬	
	$\underline{\mathbf{A}} \star \mathbf{B} \mathbf{I} \underline{\mathbf{U}} \mathbf{A} \mathbf{E} \in \left[\vdots \vdots \vdots \vdots \mathbf{K} \right] \equiv \mathbf{E} \equiv \left[\mathbf{X}_{1} \mathbf{X}^{2} \right]$	
	Thank you for your change request. Your input is valuable to the continued grow and quality of our product. All change requests are reviewed monthly by our Cha Advisory Board. Please be aware that we cannot guarantee that any change will it into a release, but you can be assured they will be evaluated based upon prod direction and value to other customers. Again thank you for your feedback we tr appreciate it.	ange make duct
	Path: p Word	is:74 //
	Cancel	Save

- 6. Amend the Note template and insert any relevant parameters
- 7. Click Save.

1.29.2 Adding a Template

To add a Note template:

- 1. Go to Configuration>Categories
- 2. Select the hyperlink for the relevant Category
- 3. Move to the Responses tab
- 4. Click Edit

Item Categories	
Category Lifecycle Classifications Responses	Types
Add Remove	Hardware
Title	à
Customer Change Request	
Request Log Files	
Request Steps to Replicate Issue	
1 - 3 of 3 Results	
	Cancel Save

- 5. Click the Add button
- 6. Enter the template Title

Template	Insert Parameter
Title	
Note	Format Font Family Font Size Font Size
	$\underline{\mathbf{A}} \star \mathbf{B} \underline{\mathbf{I}} \underline{\mathbf{U}} \underline{\mathbf{A}} \in \left[:= := ::::::::::::::::::::::::::::::$
	Path: p Words:0 //
	Cancel Save

7. Complete the content for the Note and Save.

1.29.3 Deleting a Template

To delete a template:

- 1. Go to Configuration>Categories
- 2. Select the hyperlink for the relevant Category
- 3. Move to the Responses tab
- 4. Click Edit

Item Categories	
Category Lifecycle Classifications Responses	Types
Add Remove	Hardware
Title	<u>à</u>
Customer Change Request	
Request Log Files	
Request Steps to Replicate Issue	
1 - 3 of 3 Results	
	Cancel Save

- 5. Check the box in the column next to the template Title
- 6. Click the Remove button.

1.30 Federation Tab

(This tab is only visible when two or more asset management tools are synched within AMIE as configured in Admin>Setup> AMIE tab.)

The Federation tab is used to build the Category Map, which allows for information sourced from multiple asset management systems for a single asset to be recorded against one Item in the CMDB. Based on the map built here, fields within the Item Details tab are populated when AMIE snapshots are applied to new or updated Items.

1.30.1 Creating a Category Map

Within the relevant Category:

- 1. Go to the Federation tab
- 2. Click Edit

The system will open each field to display the asset management tools that are configured within AMIE, in the Admin>Setup>AMIE tab.

3. Assign the asset tool source from the pop-up options for each field

The Item Number, Item Type and Manufacturer are included for Categories.

NOTE: Defining a source for the Item Type and Manufacturer is mandatory

4. Complete one or two of the Snapshot Merge fields

The Snapshot Merge fields are used by the system to verify the identity of an Item across the asset management tools configured in AMIE, when synchronizing Item Details from multiple sources.

5. Click Done.

Categories		
Category	Lifecycle Classifications Responses Ty	/pes Federation
		Hardw
Details		
Item Number	ZENworks Configuration Management v11 🗾	
Item Status	Spiceworks v4.0 (Spiceworks)	
Item GUID	ZENworks Configuration Management v11 🗾	
Item Type		
Туре	Spiceworks v4.0 (Spiceworks)	
Manufacturer	Spiceworks v4.0 (Spiceworks)	
Relationship		
Configuration	ZENworks Configuration Management v11 -	
Fields		
CPU	ZENworks Configuration Management v11 🚽	

1.31 AMIE Snapshots

The AMIE Snapshots submenu option is visible when at least one asset management tool is configured to be synched within AMIE as defined in the following:

Admin > Setup > AMIE > Setup tab

OR

Admin > Setup > ZENworks > ZENworks Import

The AMIE Snapshot submenu is also known as the staging area for building a federated CMDB, which is a CMDB that uses information sourced from multiple asset management repositories.

When the application is synchronized with multiple asset management tools and the automatic Item creation option is disabled in AMIE Import or ZENworks Import, the system creates an image or Snapshot of the asset information which is made available within the AMIE Snapshot tab. As different asset management tools may not record the same information for an Item, the Supervisor can combine the most relevant information from the different sources into the one Item within the CMDB, by merging snapshots created by the different tools using the Category Map configured for the Item Category. (See: Federation Tab.)

	AMIE SNAPSHOTS ¹⁰						
•	All_snapshots T •						
	* ID	O ITEM NUMBER	# SERVER	# SOURCE	© ITEM TYPE	MANUFACTURER	
	0						
	2 30	The curl executable	ZENworks Configuration Management	10.71.63.147,zenworks	The curl executable	curl	
	0 8	The curl executable	ZENworks Configuration Management	10.71.65.147_zenworks	The curl executable	curt	
	28	ZENworks Adaptive Agent, Inventory Only for Windows	ZENworks Configuration Management	10.71.65.147_zerworks	ZENworks Adaptive Agent, Inventory Only for Windows	Novell	
	0 27	ZENworks Adaptive Agent, Inventory Only for Windows	ZENworks Configuration Management	10.71.65.147_zenworks	ZENworks Adaptive Agent, Inventory Only for Windows	Novell	
	0 28	ZENworks Bundle Module	ZENworks Configuration Management	10.71.65.147_zerworks	2ENkepris Bundle Module	Novell	
	25	ZENworks Walle On Lan Handler	25Nworks Configuration Management	10.71.65.147_zenworks	2ENworks Wake On Lan Handler	Novell	
	C 24	The curl executable	ZENworks Configuration Management	10.71.65.147,zenworks	The curl executable	curl	
	0 23	The curl executable	ZENworks Configuration Management	10.71.65.147_zenworks	The curl executable	curt	
	D 22	2ENworks Primary Server	ZENworks Configuration Management	10.71.65.147_zerworks	21Nworks Primary Server	Novell	
	21	2ENworks Imaging Module	20Nworks Configuration Management	10.71.65.147,zenworka	ZENeorks imaging Module	Novell	
	0 20	2ENerorks Policy Module	2ENworks Configuration Management	10.71.65.147_zenworks	ZENworks Policy Module	Novell	
	D 19	ZENworks Adaptive Agent	ZENworks Configuration Management	10.71.65.147,zenworki	2ENeprils Adaptive Agent	Novell	
	0 10	ZENworks Remote Management Module	2ENworks Configuration Management	10.71.65.147_zerworks	2ENworks Remote Management Module	Novell	
	0 17	2ENworks Asset Management Module	ZENworks Configuration Management	10.71.65.147_zenworks	2ENworks Asset Management Module	Novell	
	0 16	ZENworks User Management	ZENworks Configuration Management	10.71.65.147_zenworks	2ENeorks User Management	Novell	

1.31.1 AMIE Snapshot Details

In the AMIE Snapshots list page, click any of the AMIE Snapshot IDs to view the snapshot details.

- Create a snapshot
- Hide the snapshot
- Unhide the snapshot

AMIE Snapshot: Details				
AMIE Snapshot List > 89				Ca 💿 🗞
Information				î
item Number	The curl executable	item Type	The curl executable	
Category	Software	GUD		
Default State		Manufacturer	curl	
Possible User Owners		Possible Org. Owners		
Details				
Location		Environment		
Version #	7.55.1	License Key		
t Iranea Provid		Linanza Europa		~
				Done

In the AMIE snapshot details page include actions that can be performed on the snapshot. Following are the actions that can be performed:

Actions

The following are the actions that can be performed in this page:

Knowledge &	Acticle Groups Forums Sur	1931	4 Pri, 18 Feb 2022 18:37:22 [Setup] [Customer]	
	ALL ¹²¹ ARTICLE ⁴⁰ FAQ ¹³ SOLUTION ³	FAQ ¹³ SOLUTION ⁵	SEARCH Q	
			Search within Filtered Results	
\odot	All Knowledge Bases T •	8-6	0 I to 0-	

Actions	Description
Managing Columns	The columns displayed in the AMIE page can be rearranged, reordered and resized.
	 To Rearrange the columns, drag and drop the column to the required position.
	• To reorder the columns, click the column header.
	 To resize the column width, position the cursor and hover over the column line so the cross becomes a double arrow, click, hold, and drag the mouse to increase or decrease the column width.
	 To add or remove columns, click the provide the required field that should be displayed.
	Ensure that a minimum of 2 and maximum 15 columns can be selected.
	If you are adding or removing any columns, then the header filter will be cleared.
	ADD or REMOVE COLUMNS FROM THE GRID Minimum 2 and Maximum 15 columns can be selected.When you change the column selection, the header filter will be cleared.
	Itast Updated Itale Summary Last Updated Title Summary Views Owner Status Visibility Age Created View Date Mean Rating Vetes Type Item Category Bem Comments Custom 1 Custom 5

Actions	Description
Row Actions	Each row in this page has its own set of actions. To view the actions, Click the kebab menu icon (vertical three dots). Following are some of the actions displayed:
	Create
	Enable
	◆ Hide
Bulk Operations	Following are some of the bulk operations that can be performed in this page. Select one or more than one Knowledge Base, and then perform any of the following actions:
	 Create: Use the Create button to convert a single Snapshot into an Item record in the CMDB. If the Item already exists in the CMDB, the pre-existing details will be updated. If it is a new Item, a new Item record will be created. To promote a single Snapshot into an Item in the CMDB, check the box next to the Id Number, and click the Promote button.
	 Merge: Use the Merge button when multiple Snapshots of an Item are to be stored against a single Item record in the CMDB. Select the related Snapshots by checking the relevant boxes next to the Id Number, and click the Merge button.
	 Enable: Use the Enable button to re-enable multiple snapshots that were hidden. Select the related snapshots by checking the relevant boxes next to the Id Number, and click the Enable button.
	 Hide: Use the Hide button to hide multiple snapshots. Select the related snapshots by checking the relevant boxes next to the Id Number, and click the Hide button.

1.31.2 Item creation in the CMDB

When Item information is recorded in multiple AMIE Snapshots, the Supervisor can merge images into one Item within the CMDB by first conducting a search on key fields such as MAC Address or Network Name for Hardware, or Version Number and Parent Id for Software Items. To maintain relationship data between the Hardware and Software Items (i.e., Parent/Child relationships), the order of Item creation is important. Always create parents first, then children, or in other words, Hardware first then the Software.

After identifying and selecting the relevant Snapshots, by ticking the fields next to the Id#, click the Merge button to display a synthesized Snapshot Detail screen. The information displayed on the Snapshot Detail, and recorded against the Item, is based on the Category Map configured for the Item Category.

If the Control CMS via RFC is enabled in Admin>Setup>Privileges>System, merged or promoted Snapshots are not automatically created as Items in the CMDB, but generate a Change Request that will require approval before the Item is saved in the CMDB. If the option is disabled, when the Save button is selected, the Item is automatically created in the CMDB.

All AMIE Snapshots applied to an Item are removed from the AMIE Snapshot List View, when the list filter is set to display Unassigned Snapshots.

1.31.3 Searching and Filtering AMIE Snapshots

To search and filter the Knowledge Base, refer to the following sections:

- "Column Header Level Search" on page 179
- "AMIE Snapshot Filter" on page 179

Column Header Level Search

Use the column header level search to search the data within the column to narrow down the result. This option is available for many columns.

\odot	Unassigned T •							G >	• • * •
SB	* ID	O ITEM NUMBER	# SERVER	# SOURCE	© CTEM TYPE	MANUTACTURER	FIELD9	FIELDO	# ASSIGNED IT
- H	•								1

AMIE Snapshot Filter

On the left-hand side of the Request page, the Filters panel is displayed. Using the options available in this panel, you can filter the unrelated data so that only the required data is displayed in the grid.

EDIT FILTERS	(\bullet)
NEW	C
GENERAL	+
OWNER OPTIONS	+
PARENT OPTIONS	+
TYPE OPTIONS	+
	SAVE FILTER APPLY

Search Parameter Options

Global Options

Search Parameter Options			
Snapshot Status	All: searches assigned and unassigned AMIE Snapshots.		
	Unassigned: searches AMIE Snapshots that are not assigned to an Item.		
	Assigned: searches AMIE Snapshots that have been assigned to an Item, and therefore not displayed in the List View.		
	<i>Hidden</i> : searches through hidden AMIE Snapshots that have never been applied to an Item.		
Server	Select a single server option to refine the search, or leave blank to search through all systems configured in AMIE.		
Manufacturer	Enter Manufacturer details of the Item. This field supports partial text search.		
Owner Options			
Username	Often the last logged in User for the Item. This field supports partial text search.		
Org Unit	The Org. Unit owner for the Item. This field supports partial text search.		
Type Options			
Item Category	Select a Category from the popup list to restrict AMIE Snapshots by the Item Category. A selection will display the custom fields for the chosen Category, which can be completed to refine the search.		
Item Type	The Item Type of the Item. This field supports partial text search.		
Parent Options			
AMIE Snapshot Id	Search on a parent AMIE Snapshot Id. This information is useful when merging children Items, such as Software.		

Following are some of the actions that can be performed in this Filters panel:

- Apply Filters: After making the required modifications to the filter panel, click Apply to view the results.
- Reset Filter: To reset the data displayed in the grid and clear the filter fields, click the C icon.
- Save Filter: After modifying the filters, if required, you can save the filter for future use. To save the filter, click the Save Filter button.
- Load Saved Filters: To load or apply the saved filters, click the filter list panel, and then select the required filter.
- Share Filter: To share the filter, click the share icon, and then select the required option in the displayed pop-up.

SHARE FIL	TER			×
Share	● No	○ With Role	\bigcirc With Team	
			CANCEL	SHARE

The available options are:

- No: Select this option to stop sharing the filters that was shared earlier.
- With Role: Select this option to share the filter with those who have same roles.
- With Team: Select this option to share the filter with your team.
- Delete Filter: Click the Delete button to delete the filter.

NOTE: Only the custom filters can be shared and deleted.

AM	E SNAPSHO	<u>TS</u> 88	
Unas	ssigned ▼ ▼		
	Unassigned [s	ys]	*
	Unassigned H	ardware [sys]	
	Unassigned N	lobile Devices [sys]	
	Unassigned So	oftware [sys]	
	Unassigned Z	ENworks Bundle [sys]	
	custom_filter		
<	Ō	Current Filter	*

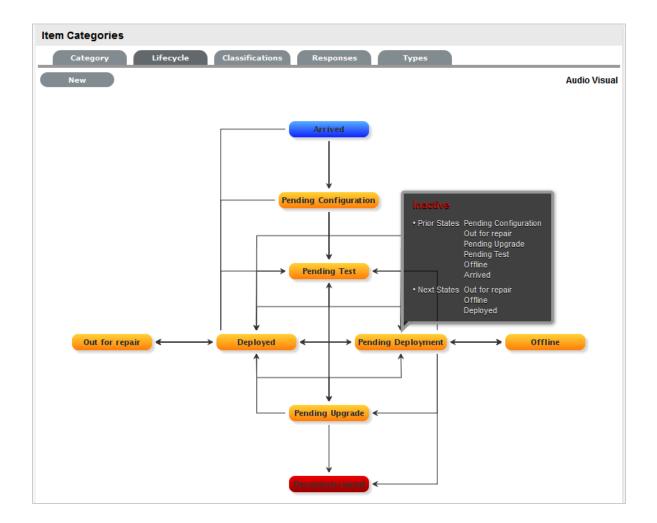
1.32 Category Lifecycle

The Lifecycle details the stages of life for a Configuration Item. This allows Items to be tracked from the conceptualization/purchase stage through to being decommissioned/discarded, and can be used to indicate availability levels throughout the Lifecycle.

The States configured here are used within the Item information screen and allow the User to easily see if an Item is at a start or end point of its life, whilst also indicating if the Item is available or not. If an Item is moved to an Offline state, this information is also used on the Outage pages, for easy reference.

By default, the system is installed with some pre-defined Lifecycles, which are displayed with the three types of States:- Previous, Current and Next. Based on the configuration of the Current State, the listings displayed in the Previous or Next column show where an Item can move to from the Current State.

If the default Lifecycles do not match the requirements of the service and support organization, they can be customized. To avoid confusion, it is suggested that the default Lifecycle States be erased completely if they are not relevant to your organization.



1.32.1 Creating a Lifecycle

NOTE: It is recommended that all Lifecycle States be written down and mapped before this process is started.

- 1. Select Configuration>Categories
- 2. Click on the Item Category hyperlink
- 3. Move to the Lifecycle tab
- 4. Click the Current State hyperlink to edit the State, or, click New to create a new transitional State

The States/Status screen appears.

Item Categories	5			
Category	Lifecycle	Classifications	Responses	Types
				Audio Visual
Status				
Name	New Status			
Active State	🔘 Yes 🛛 🔍 No			
Offline State	🔘 Yes 🛛 🔍 No			
Customer Visible	🔘 Yes 🛛 🔍 No			
Entry Point				
Exit Point				
Previous States				
	Available stat	es	Se	ected states
	Deployed Arrived Pending Configuration Pending Test Pending Deployment Pending Upgrade		O No	ne selected
Next States				
	Available stat	es	Se	ected states
	Deployed Pending Configuration Pending Test Pending Deployment Pending Upgrade Out for repair		O No	ne selected
		(Cancel	Save

- 5. Rename the State as required
- 6. Complete the State configuration:

	Description
Status	
Name	Enter the name of the Lifecycle State.
Active State	Stipulates if the Item is Active, when assigned this State.
Offline State	Only visible when Active is set to No. Indicates if the Item is offline and inactive. Items moved into states where this is enabled, have availability metrics calculated.

	Description
Customer Visible	When selected, Items in this State are visible in the Customer Portal
Pre-production State	Only visible for Service Category lifecycle states. Items that use this state are available within the Service Pipeline filter view of the Configuration>Items tab.
Entry Point	An Entry Point is used to indicate the start of a Lifecycle. To make the state a Workflow Entry Point, select the Entry Point checkbox.
	As the Entry Point is the first state, the Previous States field will be removed.
Exit Point	Select whether the state will be an Exit Point. An Exit Point is used to indicate the end of a Lifecycle.
Listener Class	This field is visible if the Outbound Webservices option is enabled in the Admin>Setup>Privileges>System tab.
	Complete this field, if assigning an Item to this State is to trigger an event in an external system.
	This field should contain the name of a Java class that implements the interface com.livetime.ws.listen.LifecycleListener that has been compiled into a jar file and added to the LiveTime classpath. Please contact support for further details.

NOTE: It is advised Users enter the list of all States, before defining any relationships to Previous or Next States

- 1. To return to the Lifecycle Current State list, save the updated State information
- 2. Continue editing, adding or deleting States until all relevant transitional States exist within the Lifecycle

After each Lifecycle State has been configured, the Lifecycle itself should be mapped.

3. Select a Current State hyperlink to configure the Previous State or Next State options,

Using all Available States entered in the Lifecycle, define the status direction options of an Item that uses this Item Category template.

4.

	Description
Status	
Previous States	If the State is not an Entry Point, use the arrow button to select Previous States from the Available States.
Next States	If the State is not an Exit Point, use the arrow button to select the Next States.
Available States	Lists all the possible States that can be included in the Lifecycle.
Selected States	Lists the states that have been included as a Next or Previous State of the Lifecycle.

NOTE: When a State is used as a Previous or Next State, it allows an Item to move forward and backward in a Lifecycle

An Entry Point State cannot have any previous States and an Exit Point State cannot have any Next States.

- 1. Highlight the relevant States in the Available States box
- 2. Click the arrow pointing towards the Selected States box

Next States				
	Available states			Selected states
	Offline Decommissioned	*	0	None selected

- 3. When all States have been allocated, click Save
- 4. Save the assignment, and complete the process for all stages of the Item Lifecycle
- 5. Customise settings if editing a Service Category

Assign a Group within the associated Service Portfolio Team, this will allow these Users to edit the Item details when assigned this stage of the Category Lifecycl

Service Team	
Group	•

6. Click Save.

Move to the Classifications tab, to define request Classifications for the Item.

1.32.2 Deleting a State

It may be necessary to delete a system default State or a State that is no longer in use. Note that a State cannot be deleted if it has been assigned to an Item.

To delete an unused State:

- 1. Select Configuration>Categories
- 2. Click on the Item Category hyperlink
- 3. Move to the Lifecycle tab
- 4. Select the Current State link
- 5. Click Delete.

Item Lifecycle Example

In this example the Item Category Hardware has a Lifecycle State of Arrived. This State is inactive and an entry point. Items assigned this State would not be visible on the Customer Portal.

After this State is assigned to an Item, the next State that the Item can move to is any of the States listed within the Selected States list (i.e., Deployed, Pending Configuration, Pending Test, Pending Deployment or Out for Repair).

Setting up the Lifecycle Status "Arrived"

Item Categories	5			
Category	Lifecycle	Classifications	Responses	Types
			Network	Infrastructure
Status				
Name	Arrived			
Active State	🔘 Yes 🛛 🔍 No			
Offline State	🔘 Yes 🛛 🔍 No			
Pre-production State	🔘 Yes 🛛 🔍 No			
Customer Visible	🔘 Yes 🛛 🔍 No			
Entry Point	\checkmark			
Exit Point				
Previous States				
Next States	Lifecycle entry points do	not have 'previous' stat	tes	
nont otatoo	Available sta	tes	Selected stat	tes
	Pending Upgrade Offline Decommissioned		Deployed Pending Configuration Pending Test Pending Deployment Out for repair	*
Service Team				
Group				
	(Delete	Cancel	Save

1.32.3 Assigning the Lifecycle Status of Arrived to an Item with the Category Hardware

NOTE: The Item Status list contains all the States defined as Next States for the Arrived Status.

Item Information						
Information	Details	Costs	Requests	Relationshi	ips Outages	AMIE Snapshots
Duplicate	吕 Print				ltem # 100010 ([Dell Latitude E6430)
Number	100010					
Category	Hardware					
Туре	Dell Latitude E6430				Find Item Type (Name)	0
Request Team	Service Request Team	•				
Incident Team	Device-Incident Team	•				
Problem Team	Problem Analysis Team	•				
Change Team	Change Management Team	•				
Status		-				
Criticality						
Service Level	Deployed Out for repair					
Ownership	Pending Configuration Pending Deployment					
Customers	Pending Deployment Pending Test					
					Find Customer (Last Nan	ne) Q
Org. Units	Micro Focus - Accounts D	ept			Find Org. Unit (Name)	0
Affects	3 Users					
				Delete	Cancel	Save

1.33 Category Classifications

A list of Classifications used to define issues are created within this tab and used as the generic Classification for requests logged against Items that apply the Item Type Category being configured. The Classifications are also used by the system for proactive Incident analysis and Problem groups.

Supervisor Users can define additional Classifications for specific Item Types, within the Configuration>Categories>Item Categories>Classification tab.

The system is installed with several default Classification Type Categories, which can be edited if required.

NOTE: The General Classification is owned and used by the system and cannot be deleted. It is also advised that this Classification not be renamed, as this is the Classification assigned to requests when they are created via email.

1.33.1 Classification Tab

Additional Classifications can be created for each Item Category, while the system provided Classifications can be renamed or deleted. The Custom facility, when enabled, allows Users to add Classifications during the request creation process.

Item Categories		
Category	Lifecycle Classifications Responses	Types
Classifications		Hardware
	Classifications Configuration Downloads General (Default) Manuals Metwork	
Custom	On Off	
		Done

Creating a New Item Category Classification

To add a new Classification:

- 1. Select the Classification tab of an Item Category
- 2. Right-click on the Classifications header
- 3. Select Create

Classifications			Hardv
	Classifications		
	Create		
	Rename		
	Delete		
	Make Default		

4. Enter the details in the newly created node

Item Categories		
Category	Lifecycle Classifications Responses	Types
Classifications	Lassifications	Hardware
	🛺 Configuration 🎧 Downloads 🎧 General (Default) 🎧 Manuals	
	- In Network	
Custom	On Off	
		Done

5. Click outside the text box to commit the entry listing

Classifications	
	Lassifications
	🛄 Configuration
	📗 Downloads
	··· 📗 General (Default)
	- 📗 Manuals
	··· 📗 Network
	- D Faults

- 6. Repeat the above process to create all required list entries
- Move an existing Classification to a new position, if required Select the entry, then drag and drop the entry into its new location.

Item Categories			
Category	Lifecycle Classifications Responses	Types	
Classifications		\ \	Hardware
	A. I Classifications		
	🚛 Configuration		
	Downloads		
	General (Default)		
	- U General (Default) - U Faults - Manuals		
	🛺 Network		
	🛄 Faults	J	
Custom	◯ On ● Off		
			Done

8. Click Save.

Creating Sub-Classifications

Classifications can be expanded to include nested Classifications.

To create Sub-Classifications:

1. Right-click the relevant Classification header

The Create, Rename, Delete and Make Default options are displayed.

Item Categories		
Category	Lifecycle Classifications Responses Types	
Classifications	Classifications Configuration Faults Create Rename Delete Make Default	Hardware
Custom	© On ^C OT	Done

2. Select Create

A text box will appear under the Classification.

👍 📗 CI	assifications
A- 🛴	Configuration
L L	· 🌆 Faults
	🛄 New node
- 4	Downloads
- 4	General (Default)
- 6	Manuals
	Network

- 3. Enter the name for the list entry
- 4. Click away from the text box to commit and save the change
- Move an existing Classification to a new position, if required Select the entry, then drag and drop the entry into its new location
- 6. The above steps can be repeated until the sub-category list is completed.

🛓 🔚 Classifications)
4 🚛 Configuration	
🛓 🛄 Faults	
🛺 Internal	
🕼 External	
📗 Downloads	
📗 General (Default)	
📗 Manuals	
📗 Network	J

Renaming a Classification

Any Item Category classification can be renamed.

To rename a Classification:

1. Right-click the Classification

🛓 📗 Classifica	tions	
🕴 🚛 Config	guration	
🛓 🖉 Fa	ults	
<u>(</u>	Internal	
L. 🦲	External	
🛄 Do	Create	
📙 Ge	Rename	
Ma	Delete	
	Make Default	

- 2. Click Rename
- 3. Edit the field content
- 4. Click away from the text field to save the change.

Making a Classification Default

To make a classification default:

1 Right-click the required classification and then click Make Default.

Deleting a Classification

To delete a Classification:

- 1. Right-click the relevant list entry
- 2. Click Delete
- 3. Click Done when the Classification Categories are complete.

1.34 Service Catalog

The Service Catalog can be accessed as a filter view within the Items sub-menu screen of the Configuration tab. It is part of the Service Portfolio made available to Customers, displaying information regarding Live IT Services. The Service Catalog may include information about service deliverables, any associated costs, contact points, ordering and request procedures.

For an IT service organization, the Service Catalog may include the following options:

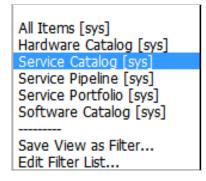
- Email
- Network Monitoring
- Security
- Video Conference
- Remote Access
- Mobile Communications (Cell Phones/PDAs)
- Wireless
- Laptop Computing
- Desktop Computing
- File Sharing
- Printing/Scanning.

Items included in the Service Catalog can be included as standalone Items or underpinned by physical Items stored within the Configuration Management Database (CMDB). Within the CMDB, relationships can be mapped between Configuration Items (Items) in the Relationships tab of an Item. This map is then available within the Impact tab of a request, to allow for the impact of a request on the Organization to be assessed.

Service Catalog Relationships are defined and visible within the Relationships tab of an Item.

To view the Service Catalog:

- 1. Within the Configuration>Items tab
- 2. Select the Service Catalog (sys) filter



1.34.1 Create a Service

To create a new Service, such as Email or Printing, create an Item Type template using the Service Category Template, which has the Service Category option enabled within the Categories tab (See: Category). As part of the Service Category template, define relevant attribute fields as being Customer Visible, which will display information recorded on the Details tab of the Service within the expanded view of a Service in the Customer Portal.

	() My Services	Service Catalog			
ervice # Microfocus - eLearning					(i
Properties					Create 👤 🔒
Category	Service				
Туре	Website Services				
Status	Offline				
Service Level	Warranty				
Service Level Targets	Priority	Response Time	Restoration Time	Resolution Time	24 x 7 support
	Urgent	6 Hours	12 Hours	24 Hours	Yes
	High	12 Hours	24 Hours	48 Hours	Yes
	Medium	18 Hours	36 Hours	72 Hours	Yes
	Low	24 Hours	48 Hours	96 Hours	Yes
					Edit Cancel

Then create an Item using the newly created Type template. Within the Details tab of the Service Item, complete the Description to provide information about the Service within the Customer Portal Services tab. (See: Item Details)

Item Information			
Information	Details Costs Req	uests Relationships	Outages AMIE Snapshots
Duplicate	吕 Print		Item # Service Desk (Service Desk)
Details		Details	
Business Unit		Date Responsible	
Туре		Date Activated	
Environment		Contact	
	Descr	iption Notes	Attachments Audit Trail
Description	Format \bullet Font Family \bullet Font Size $\underline{A} \bullet \mathbf{B}$ I \underline{U} ABC $\underline{\vdots}$	• ∞ šž html ≣ X₂ X²	
	Description entered here is displayed in the cus	tomer portal.	
	Path: p		Words:8
		Delete	Cancel Save

Within the Item Relationship tab, define the underpinning infrastructure of the new Service Item, if relevant. (See: Relationships.)

1.34.2 Managing Service Costs

Users with the Finance Role are able to manage the information related to Service Item Costs. Items created with the Category Template that have the Service Category option enabled, allow organizations to calculate and recover costs for offering services. At the Item Type level, the costs for offering a service can be calculated against multiple service level agreements. (See: Item Types.) Within the Cost Tab of a Service Item, figures based on the Item Type associated with the Item are provided, to allow the support organization to recover costs for providing the Service. (See: Service Item Cost Tab.)

1.34.3 View Service Relationships

Within the Relationships tab of the Item Information screen, a Relationship Map visually displays the connections that have been defined for an Item. All Item Relationships are listed in the Relationships Table beneath the Map. The Relationship Map can display up to 48 Child Items and 16 Parent Items in the one diagram.

The central icon of a Map is a visual representation of the selected Item. Scroll over an Item label to view any information recorded on the Information and Details tabs of the Item. To drill-down through the relationships, click on an Item icon label. To change the focus of the Relationship Map to another Item, click on the Item icon label and the system will request that OK be selected before updating the central node of the Map.

The Relationship Table data displayed at the base of the map can be filtered using the Direction filter view of Parent-Child or Child-Parent.



The map displays the relationship between each Lifecycle State by using different colors to represent the type of Lifecycle State.

Color	
Green Circle	CI is assigned an online status.
Red Square	Cl is assigned an offline status.
Blue Triangle	Service CI is assigned a pre-production status.

The Lifecycle State name can be accessed by scrolling over the Item icon within the Map.

1.34.4 Delete a Relationship:

To remove the Relationship between Items:

- 1. Select the relevant Item within the Configuration tab
- 2. Move to the Relationships tab
- 3. Click Edit
- 4. Select Delete

A table with the Relationship details is displayed

Item Information					
Information	Details	Costs	Requests	Relationships Outage	AMIE Snapshots
🛱 Print				Item # srm-tst-nsc	I-223 (Dell Latitude E6430)
Direction	Parent - Child	•			Display: 10 💌
Relationships	Current Item	Relationship	■ Related Item	■ Item # Identifier	Category
	Dell Latitude E6430	is a parent of	Windows Bundle	Notepad++	ZENworks Bundle
	Dell Latitude E6430	is a parent of	Windows Bundle	Firefox 1.0	ZENworks Bundle
	Dell Latitude E6430	is a parent of	Windows Bundle	Microsoft 2010	ZENworks Bundle
			1 - 3 of 3 F	Results	
				Cancel	Delete

- 5. Select the Relationship Direction to display the relevant Relationship table
- 6. Mark the checkbox next to the Relationship that is to be removed
- 7. Select Delete
- 8. Click Done to return to the Item list.

1.34.5 Managing the Service Catalog

The portfolio of services offered within an organization can be managed by the Service Portfolio Team. See: Service Portfolio Team.

1.35 Details Tab

Once the basic information for an Item has been completed, additional details can be defined for the Item. The Details tab displays a list of custom fields set for the Item's Category. The information to be completed within this section is configured by the Supervisor when customizing the Item Type templates in Configuration > Categories. Fields marked as Required, must be completed for the Item Details of the Item to be saved successfully.

For more information about Item custom fields, see: Categories.

Item Information			
Information	Details Costs Re	quests Relationshi	ps Outages AMIE Snapshots
Edit	Duplicate 吕 Print		Item # Service Desk (Service Desk)
Details		Details	
Business Unit		Date Responsible	
Туре		Date Activated	
Environment		Contact	
	Descr	iption Notes	Attachments Audit Trail
Description	Description entered here is displayed in the c	ustomer portal.	
			Done

Clicking Save at the far bottom of the page after the Details tab has been completed, will create the Item and save it to the database.

NOTE: Items can be duplicated at any time by clicking the Duplicate button. A new Item is created with properties that are identical to the original Item (with the exception of the Item Number, as this must be unique and is generated automatically).

1.35.1 Item Description

Content entered in the Description field is made available on the Customer Portal in the expanded information window of an Item. For Service Items included in the Service Catalog tab of the Customer Portal, information about the Service can be included within the Item Description field. The Service Item information can be further defined by completing Item attribute fields that are configured as Customer Visible within the Category Information screen, and therefore also displayed in the Customer Portal.

To add an Item Description, within the Item's Details tab:

- 1. Click Edit
- 2. Move to the Description tab
- 3. Add information in the Description field

	Description	Notes	Attachments	Audit Trail
Description	Format ▼ Font Family ▼ Font Size ▼ ∞ ∅ ∅ ▲ ▼ B I U Abe ⋮ ⋮ ≤ ≤ ≤			
	Used by the admin department to provide payroll and HR	software.		
	Path: p		Words:11	
		Delete	Cancel	Save

4. Click Save.

1.35.2 Item Notes

To add Notes to an Item, under the Item's Details tab:

- 1. Click Edit
- 2. Select the Notes tab

		Description	Notes	Attachments	Audit Trail
Date	₹ Note		Ву	≣	New
		0 - 0 of 0 Results			
		Delete	Disable	Cancel	Save

- 3. Click New
- 4. Enter details in the Notes field

	Description	Notes	Attachments	Audit Trail
Format	Font Size 🔹 📾 💑 HTML			
<u>A</u> • B <i>I</i> <u>U</u> ↔ [Ξ]				
adding a note				
Path: p			Words:2	1.
			Cancel Save	
	Delete	Disable	Cancel	Save

5. Click Save.

The Note will be allocated an identification number hyperlink for access. It will also be timeand date-stamped.

1.35.3 Item Attachments

To add Attachments to an Item, within the Item's Details tab:

- 1. Click Edit to display the Attachment tab New button
- 2. Click New

	Description	Notes	Attachments	Audit Trail
Description	≣ Size	Date	₹ Visibility	New
	0 - 0 of 0 Results			Delete
	Delete	Disable	Cancel	Save

- 3. Browse and select a file
- 4. Enter a Description, if required
- 5. Adjust Private and Public option, if relevant

Selecting Public will make it accessible on the Customer Portal, when the Item is in a Customer Visible state.

6. Click Upload

1.35.4 Item Audit Trail

The Audit Trail tab records all changes that are made to fields within the Item Information and Details screens. These entries are made to record all the alterations made to Items and the CMDB.

To view an audit trail entry, under the Item Details tab:

- 1. Select the Audit Trail tab
- 2. Click on the identification number hyperlink to display the entry details.

		Descriptio	n Notes	Attachment	ts	Audit Trail
No. ≣	Date	₹ Event		Ву	≣	B
89	01/05/16 14:57	Relationship created. Servi.	vice Desk #Service Desk	Sankar R		
82	01/05/16 12:33	Warranty Date changed fr Feb	om '16 Jan 2016' to '5	Sankar R		
81	01/05/16 12:33	Warranty Date set to '16 J	Jan 2016'			
72	01/05/16 11:42	Added 'James Stewart' as	an owner of this item	Kamal K		
51	12/10/15 04:59	ltem Number changed fror Desk	m '100002' to 'Service	Sankar R		
		1 - 5 of 5 Resu	ults			
			Delete	Cancel		Save

1.35.5 Rollback Option

All changes recorded in the Audit Trail can be rolled back to reinstate information recorded against an Item.

To return Item details to previously saved information:

- 1. Click Edit
- 2. Select the identification number hyperlink of the entry to be reversed
- 3. Click the Rollback button
- 4. Save the Item.

The Item details will revert to information recorded before an update was made.

1.36 Relationships Tab

The Relationship Tab allows Users to view and/or create a Relationship Map for the current Item, with other Items within the CMDB.

The Relationship direction can be defined as:

- Service Oriented Parent-Child Relationship
- Component Oriented Child-Parent Relationship.

Within each view the Relationship Class can be defined as:

- Hierarchical Relationship
- Connection an association between the selected Items.

For a Service, such as the Email or Web Site Service, it is recommended that the Hardware be defined as the Parent for the Software Items and the Software be defined as the Parent of the Email or Web Site Service.

1.36.1 Create a Relationship

To create a new Item Relationship:

- 1. Select Configuration>Items
- 2. Select an Item
- 3. Select the Item's Relationship tab
- 4. Click Edit
- 5. Click New
- 6. Select the Relationship Direction and Class from the drop-down menus
- 7. Define the Relationship by selecting a description from the drop-down list

Item Information					
Information	Details	Costs	Requests Relations	ships Ou	tages AMIE Snapshots
日 Print			Ite	em # Microfocu	s - Intranet (Website Services)
Direction	Parent - Child	•			
Туре		•			
Related Item	Hierarchical Connection				
	Item Number	Item Type	Org. Unit		
					3
	Item #	■ Item Type ■ Identifie	er Status	≣	
	jdk-7u60- windows-x64	Windows Bundle	Installed		
	Wordweb7	Windows Bundle	Installed		
	Firefox 1.0	Windows Bundle	Installed		

NOTE: If the Relationship Type has the Inherit Parent Ownership option enabled, Child Items that use this relationship will inherit the Parent Item's owners. The ownership will not be editable and no other Parent Item can be assigned to the Child Item. A warning will be displayed if a relationship type has the Inherit Parent Ownership option enabled.

- 8. Use the Find Item field to locate the relevant Item
- 9. Click on the Item Number hyperlink to create the Relationship
- 10. Click Save to default to the Relationship Map view.

1.36.2 Relationship Map

Within the Relationships tab of the Item Information screen, a Relationship Map visually displays the connections that have been defined for an Item. All Item Relationships are listed in the Relationships Table beneath the Map. The Relationship Map can display up to 48 Child Items and 16 Parent Items in the one diagram.

The central icon of a Map is a visual representation of the selected Item. Scroll over an Item label to view any information recorded on the Information and Details tabs of the Item. To drill-down through the relationships, click on an Item icon label. To change the focus of the Relationship Map to another Item, click on the Item icon label and the system will request that OK be selected before updating the central node of the Map.

The Relationship Table data displayed at the base of the map can be filtered using the Direction filter view of Parent-Child or Child-Parent.



The map displays the relationship between each Lifecycle State by using different colors to represent the type of Lifecycle State.

Color	
Green Circle	CI is assigned an online status.
Red Square	Cl is assigned an offline status.
Blue Triangle	Service CI is assigned a pre-production status.

The Lifecycle State name can be accessed by scrolling over the Item icon within the Map.

1.36.3 To delete a Relationship:

To remove the Relationship between Items:

- 1. Select the relevant Item within the Configuration tab
- 2. Move to the Relationships tab
- 3. Click Edit
- 4. Select Delete

A table with the Relationship details is displayed.

Item Information				
Information	Details	Costs	Requests Relationships	Outages AMIE Snapshots
日 Print				Item # Service Desk (Service Desk)
Direction	Child - Parent	•		Display: 10 💌
Relationships	Current Item	■ Relationship	■ Related ■ Item # ■ Item	Eldentifier Category
	Service Desk	is a child of	Windows Microsoft Bundle 2010	Service
			1 - 1 of 1 Results	
				Cancel Delete

- 5. Select the Relationship Direction to display the relevant Relationship table
- 6. Mark the checkbox next to the Relationship that is to be removed
- 7. Select Delete
- 8. Click Done to return to the Item list.

1.36.4 AMIE Item Imports and Relationships

Items with Item relationships that have been imported using the AMIE engine, retain the relationships that exist within the Asset Management Tool. A visible map of the relationships is recorded within the Relationships tab.

1.37 Item Types

Item Types are templates used to create Items. Items are specific instances of Item Types with individual asset detail information.

In this section, Item Types and their manufacturers can be created and edited. The Item Types default support Team is assigned here, as well as Criticality, service level and other default information.

Items	Types Categor	ies Vendors Manufacture	ers Outages AMIE	Snapshots							
Iter	n Types										
	New	♀ Search Bulk	Export: C	urrent Page 💌 🐕					Filter: All Types [sys]	▼ Display: 1	.0 💌 🐵
	Item Type	🛓 Item Category	Manufacturer	Evel	Incident Team	Problem Team	E Change Team	📕 Request Team	Criticality	Identifier	≡
	Dell Latitude E6430	Hardware	VMware, Inc.		Device-Incident Team	Problem Analysis Team	Change Management Team	Service Request Team			-
	Email Services	Service	Novell		Device-Incident Team	Problem Analysis Team	Change Management Team	Service Request Team	High	Туре	
	lphone 6	BYOD Devices	Apple		Device-Incident Team	Problem Analysis Team	Change Management Team	Service Request	Moderate	Mobile No	
	Service Desk	Service	Novell		Device-Incident Team						
	WIFI Service	Service	Novell		Device-Incident Team	Problem Analysis Team	Change Management Team	Service Request		Туре	

For Item Types that use a Category with the Service Category functionality enabled, a Costs tab is also displayed that allows a User with the Finance Role to forecast the costs for offering the Service Item that applies the Item Type.

1.37.1 Create a New Item Type

To enter a new Item Type:

- 1. Select Configuration>Types
- 2. Click New

The Type Information screen appears.

Type Information					
Information	Classifications	Items Req	uests Fields		
Item Type			Support Teams		
Name			Request Default	Service Request Team	•
Manufacturer		- 6	Incident Default	Device-Incident Team	•
Item Category		•	Problem Default	Problem Analysis Team	•
Criticality		•	Change Default	Change Management Team	•
Cost			Service Level		
Unit Price	0		Default Level		•
Warranty			Supported Levels		
Duration	•				
Instance			Find SLA (Name)		
Total					0
Assigned	0				
Customer					
Hidden	🔘 On 🔘 Off				
Ignore Share	🔘 On 🔘 Off				
Add Forum Topic					
					Attachments
🖾 File	Description		≣ Size	Date	▼ New
		0 - 0 of 0	Results		
				Cancel	Save

- 3. Enter the Name of the Item Type
- 4. Enter a Manufacturer using the drop-down list

Or, select 💽 to add a Manufacturer. The Manufacturer screen appears. See: Create a Manufacturer

Type Information	
Name	Name of the Item Type.
Manufacturer	The manufacturer of the Item Type. New manufacturers can be created and existing manufacturers can be edited and deleted by using the Edit and New buttons that appear beside the drop-down menu of manufacturers.

- 6. Using the drop-down list, select the relevant Item Category
- 7. Select the Criticality for the Item Type

Item Type					
Item Category	This signifies the type of Item. (Hardware, Software or Service are the default Types, but Users with the Supervisor Role can create more if required).				
Identifier	The drop-down list that appears is drawn from th fields defined for the Item Category selected. Although this information is not required, the Identifier is used to differentiate similar Items tha may be in use throughout an organization. For example, if an organization uses the same printer for all departments, an Item Category field of "Location" could be configured for the Item Detail and this could also be used as a secondary Identifier for Printer Item.				
Criticality	Rates the degree of importance of an Item Type within an organization, which can be adjusted on per Item basis. The 'Impact' of a Request is initiall pulled from the Criticality of the Item, but can be adjusted within the request Information screen if required. Requests logged through the Customer Portal, use the Criticality of the Item to set the Priority of the request.				
	The Incident Analyzer, if enabled by the Administrator in Setup>CMS>Incident Analyzer, can apply the Criticality to automatically detect Problems.				
	The minimum Criticality level can also be used to determine the off-line Items that appear on Outages pages, if the Outages pages are enabled by the Administrator in Setup>Privileges>System.				

Item Type	
lcon	When the Type details are saved, the Icon selected for the Item Category will be displayed. To customize the icon for the specific Item Type, select the Icon to access the Upload
	Upload or Cancel Cancel options The icon must be 128 x 128 pixels.
Unit Price	The per-unit price of the Item Type.
Instance Total	Number of instances owned by the organization.
Assigned	Number of instances assigned to Customers as Items.
Hidden	Select 'On' to ensure Customers cannot view this Item Type within the list in the Customer Portal. I all Item Types use this selection, the Item Type lis will be completely removed from the Portal.
	Items created using Item Types with Hidden enabled, will not allow Customers to generate requests against them in the Customer Portal, no will they be able to view or receive updates abour requests logged by the User against Items with thi functionality enabled.
Creation	Enabling this option gives Customers using the portal the ability to create new Items using this Item Type (if they have been granted the ability to create Items by the Administrator in Setup>Privileges>Customer>Create Item. (This option is not displayed when the Hidden option is enabled.)
Ignore Share	Enabling this option overrides the system level option for sharing requests raised against Items o this Type. Requests raised against Items of this Type will not appear in the customer portal when viewing shared requests is enabled.
Add Forum Topic	Create a forum topic using the Item Type Name. This option is only displayed when a new Type is being created.
Incident Default	The Team of Technicians assigned to support Incidents received related to the Item Type. See: Teams
Problem Default	The Team of Technicians assigned to support Problems received related to the Item Type. See: Teams
Change Default	The Team of Technicians assigned to support Change Requests received related to the Item Type. See: Teams

Item Type **Request Default** The Team of Technicians assigned to support Service Requests received related to the Item Type. See: Teams Service Level Default The default service level for the Item Type. When Billing is enabled, service levels without a cost are listed as an option. The service level with an associated cost can be applied when the Item created, this ensures Item contract payment is processed. Support Levels All Service Level Agreements assigned to the Item Type, which will be displayed as options when a request is created applying Item that uses this Type template. SLAs listed here, are used within the Costs tab of Service Types to forecast break even points on the Service relative to the number of Users. Find SLA (Name) To assign multiple SLAs use this option. Click Չ to view all SLAs or refine the search by entering a specific name. Select the SLA hyperlink to assign the SLA to the Type Information. Click Cancel to clear the search field.

9. Enter the Unit Price for the Item Type. This is an optional field that is used for asset management

See Finance Role.

- 10. Set the Customer options
- 11. Assign the default support Teams
- 12. Assign one or multiple SLAs, as required
- 13. Click Save

The Type Screen moves out of Edit mode.

14. Click the icon if the generic Item Category icon image is to be changed for the Item Type This icon is used as the visual representation of the Item Type in the Relationship Map.

Icon	Browse	No file selected.	😢 🙆
	128 x 128		

- 15. NOTE: The dimensions of the uploaded icon must be exactly 128 x 128 pixels
- 16. Move to the Classification tab to create classifications for issues related to Item of this Item Type.

1.37.2 SLAs and Item Types

When an Item Type is created with a defined SLA, any Item created using this Item Type automatically inherits the SLA. The lifecycle of a request raised against this Item is determined by the SLA milestones. However, it should be noted that the SLA can be adjusted within the Item if it is relevant to do so.

1.37.3 Classification

Category Classifications are used as generic problem classification for sorting requests. These are refined within the Item Type Classification to make them more relevant to the actual Item Type. For example, the Item Type category Hardware needs the Category Classification to be refined differently for hardware Item Types such as desktops and servers. To refine the problem types, Item Type Classifications are used.

Type Information				
Information Classifi	cations Items	Requests	Fields Responses	5
Edit				lphone 6
Item Type				
🛺 Cla	ssifications			
Category				
🔺 🌆 Cla	assifications			
	Downloads			
- 49	General (Default)			
- 49	Manuals			
- 49	Printing			
	Setup/Installation			
				Done

Editing an Item Type Classification listing

To edit the Item Type Classification entry:

- 1. Within the Item Type>Classification tab
- 2. Select Edit

A New button is displayed within the Item Type Classification section.

3. Right-click on the Classifications link

The Create option is displayed.

Item Type	
	L. Lassifications
Category	Create
	A. Rename
	Delete
	··· 🔚 General (Default)
	🔚 Manuals
	🛺 Printing
	🗓 Setup/Installation

4. Select Create

A New node field is displayed in Edit mode.

5. Complete the details of the new list entry

Item Type	
	🛓 📗 Classifications
	🔤 🚛 Account Details

- 6. Click outside the text field to save the entry
- 7. To re-name an entry, highlight the field

Item Type		
	🛓 🕼 Classifications	٦
	🦾 🌆 Account Details	
Category	Create	
	🛓 🎧 Rename	
	·· Delete	

8. Select the Rename option

The field opens in edit mode

- 9. Change the details
- 10. Click outside the text field to save the changes
- 11. Repeat the above process to create all required list entries
- 12. Move existing Classifications to a new position, if required Highlight the entry, then drag and drop the entry into its new location.
- 13. Click Save.

Creating Sub-Classifications

Classifications can be expanded to include sub-categories.

To create sub-classifications:

1. Select the relevant Classification header

The Classification header is highlighted.

Item Type	
	🛓 🕼 Classifications
	🕼 Account Details

2. Right-click the Classification Entry

The Create, Rename and Delete options are displayed

Item Type		
	A. 📗 Classifications	
	🕼 Account Details	
Category	Create	
	🛓 🛺 Rename	
	··· Delete	

- 3. Click Create
- 4. Complete the details of the new node

Item Type	
	🔺 🌆 Classifications
	Account Details
	🛄 New node

- 5. Click away from the text field to save the change
- 6. The above steps can be repeated until the Sub-Classification list is completed.

To move an existing entry to a new position, select the entry, then drag and drop the entry into its new location

1.37.4 Items

The Items tab lists the Items created using this Item Type. Individual Item details can be viewed by clicking on an Item Number. The list of Items can be exported using the Excel button.

Type Informatio	n					
Information	Classifications	Items	Requests	Fields	Responses	
Excel						lphone 6
						Display: 10 💌
Item #	🛓 Users		Org. Units		Status	≣
Guru-Iphone6	Guruprasad S				Available	
Jason-Iphone6	Jason Blackett				Available	
			1 - 2 of 2 Results			
						Done

1.37.5 Requests

The Requests tab lists all requests that have been created for this Item Type.

Use the Filter to switch between Incident, Problem, Change and Service Requests views. Requests can be viewed from this screen by clicking on the Task# or Problem Report hyperlink. The list of Requests can be exported using the Excel button.

Type Info	rmation								
Infor	mation	Classifications	Items	Requests	Fields	Responses			
Excel								lpho	one 6
					Filter:	All Tasks [sys]	💌 Displa	ay: 10	•
Task#	₹ Process	Date	≣ Status	Technician	Proble	All Tasks [sys] Change Requests [sys]			
				0 - 0 of 0 Results		Deployment Tasks [sys] Incidents [sys] Problems [sys]			
						[Problems [aya]	D	one	

1.37.6 Costs

NOTE: This is only visible to Users with the Finance Role.

The Costs tab is only available within the Service Type Information screens and allows organizations to calculate the Break-Even Point (BEP) of a service based on forecasting the number of Customers of that Service. This allows the service organization to account for the per calendar month price of the Service, which is used to calculate the ongoing revenue figures within the Item Costs tab that uses the Service Type template.

Information	assific	ations	Items	Requests		Costs	Fields	Responses
Edit								Service Des
Forecast Costs						Actual Costs		
Capital	\$12,00	00.00				Capital	\$12,000.00	
Recovery	5 year	s				Recurring	150.0 p.c.m	
Recurring	400.0	p.c.m						
Services								
	SLA	Cost (p.a.)	Current Users	Forecast Users	B.E.P.	Price (p.c.m)		
	Gold	\$2,000.00	16	100	\$6.00	\$173.00		

Forecast Costs	
Capital	Enter the sum total to be invested in hardware and software infrastructure that will underpin the Service.
Recovery	Complete the field with the expected number of years designated to recover the costs of implementing the Service.

Forecast Costs	
Recurring	Enter the proposed ongoing cost, on a per calendar month basis, for offering the Service.
Services	Using the details entered in the Costs fields and the cost per annum of the SLA, enter the forecast number of Customers/Users to calculate the break even point (B.E.P) of the Service. Using the auto-calculated B.E.P., enter a per calendar month Price for the Service to recover costs. This figure is used in the Service Item Costs tab to calculate the ongoing Revenue figures.
	NOTE: If an SLA with an Internal Cost is assigned to the Type, the B.E.P will be the SLA cost divided by 12 plus the cost of recovering the Capital expenditure over the number of years defined for the Capital to be recovered. For example, where the SLA cost is \$240 for the year, the B.E.P will never be less than \$20 per month.
Actual Costs	
Capital	Content for this field is derived from the Cost field within then Costs tab of the Item created using this Type.
Recurring	Content for this field is derived from the Monthly Cost field within the Costs tab of the Item created using this Type.

1.37.7 Fields

Within the system, service organizations can refine custom fields made available during the request creation process based on the Item assigned to the request. In the Fields tab a User can create custom fields that apply to the Item Type. Therefore, when a request is logged against an Item that uses an Item Type with custom fields configured within the Fields tab, the Fields are made available within the Details tab of the request creation process.

These fields are in addition to the fields created by the Administrator within the Admin>Setup>Custom Fields, which are created for the specific Process, such as Incident, Problem, Change and Service Requests.

fications Items		Requests	Fi	elds	Resp	onses	
Data Type	Style	Active	Required	Customer Visible	Customer Editable	Default Value	
Boolean	Yes/No	9		9	9	No	
String	Text			9	9		
String	Text			9	0		
String	Text			9	2		
String	Text			0	9		
	1 - 5 of 5 I	Results					
							Done
	Data Type Boolean String String String	Data TypeStyleBooleanYes/NoStringTextStringTextStringTextStringTextStringText	Data TypeStyleActiveBooleanYes/NoImage: Comparison of the stringImage: Comparison of the stringStringTextImage: Comparison of the stringTextStringTextImage: Comparison of the stringImage: Comparison of the string	Data TypeStyleActiveRequiredBooleanYes/NoImage: Comparison of the stringImage: Comparison of the stringImage: Comparison of the stringStringTextImage: Comparison of the stringImage: Comparison of the stringStringTextImage: Comparison of the stringImage: Comparison of the stringStringTextImage: Comparison of the stringImage: Comparison of the string	Data TypeStyleActiveRequiredCustomer VisibleBooleanYes/NoImage: Comparison of the stringImage: Comparison of the stringImage: Comparison of the stringStringTextImage: Comparison of the stringImage: Comparison of the string	Data Type Style Active Required Customer Customer Editable Boolean Yes/No Image: Comparison of the string Image: Comparison of the string Image: Comparison of the string String Text Image: Comparison of the string Image: Comparison of the string Image: Comparison of the string String Text Image: Comparison of the string Image: Comparison of the string String Text Image: Comparison of the string Image: Comparison of the string String Text Image: Comparison of the string Image: Comparison of the string	Data TypeStyleActiveRequiredCustomer VisibleCustomer EditableDefault ValueBooleanYes/NoImage: Customer Image: Customer

To create Field labels within the Type Information screen:

- 1. Click the Fields tab
- 2. Click Edit
- 3. Select a Field hyperlink

The Custom Field screen is displayed

Type Information				
Information Classifications	Items Requests	Fields	Responses	
				Email Services
Custom Field				
Field Label	Type Custom 2	0		
Category	Item Type			
Active	Yes No			
			Cancel	Save

- 4. Click Yes to activate the Field
- 5. Complete the following details:
- 6.

Categories Fields	Description	
Category		
Field Label	The name of the field.	
Active	Indicates if the field is active.	
Required	Indicates if the field is required or mandatory field.	
Customer Visible	Defines if the Customer can see the field within the	
	Customer Portal.	
	If Yes is selected, define if the Customer can edit the field information on the Customer Portal.	

Categories Fields	Description
Data Type	Dictates the field's Data Type. The options available include :
	 String - List or Free Text
	Number
	 Boolean - radio buttons for Yes/No and True/ False
	 Date - creates a date field
	 Currency- creates a currency field
	 Hyperlink.
Style	States the style of the field.
	eg. String- List or Free Text field. SeeLists for more information on creating a list field type.
Unique Value	When active, the system prevents the duplication of data within the customized field.
Default Value	Value entered is the default system entry for the field, when the field is not completed manually.
Input Validation	When enabled the Input Mask and User Mask can be defined.
	<i>Input Mask</i> : A regular expression to use for data validation of values entered by a User (i.e., Zip/ Post Code, telephone no.)
	<i>User Mask</i> : A User Friendly representation of the Input Mask that Customers can understand should it appear in a validation error message.
Enable Description	When enabled a Description field appears, allowing the User to enter details of what information is the field is expected to capture. These details are accessible next to the custom field on the relevant screen.

7. Click Save.

The active Field will now be available during the request creation process, for all Items that use the Item Type.

quest Informa	tion			
Customer	Details			
Request	6		Details Field configured Item Type>Fiel	
Request Type	New Incident	\$	Access enabled? O Yes O No	
Classification	Service Offline	\$		
		e i≘ }≡ "	E≡≡ x ₂ x ²	
	Path:		Words: 0	
			Cancel Done	

1.37.8 Responses

The Responses tab within an Item Type displays the templates configured within the Item Category>Response tab, which can be used as content for Notes sent for requests received against the Item Category. In addition to saving time for customer responses that are sent on a regular basis, these ensure the service desk responds to issues in a consistent manner, in line with the support organization's policies and protocol. Within the Types>Responses tab, additional Note templates can be configured, that will only be available for requests logged against that Item Type.

The following screen displays a list of default template options available within the Notes tab of a request:

Add Note		×
Note Time + 💌 0 (Minutes) 01/20/16 10:22	Select a template	-
Format 🔻 Font Family 🔻 Font Size 💌 🕬 🦓 нтть		
$\underline{\underline{\mathbf{A}}} \bullet \mathbf{B} \underline{I} \underline{\underline{\mathbf{U}}} \underline{\mathbf{A}} \in [\Xi] \stackrel{\mathrm{def}}{=} \frac{1}{2} \stackrel{\mathrm{def}}{=} 1$		
Initial Description Change Request - Item has been marked for creation		
Path: p	Wor	rds:10 //
Attachments Visibility 🔿	Private 🔘 Public	
Create Knowledge 🔘	Yes 🔘 No	
So	lution Draft Ad	d Note

Adding a Template for Item Types

To add a Note template:

- 1. Go to the Responses tab
- 2. Click Edit
- 3. Click Add

Template		Insert Parameter
Title		
Note	Format Font Family Font Size Font Size	
	$\underline{\mathbf{A}} \bullet \mathbf{B} \mathbf{I} \underline{\mathbf{U}} \mathbf{A} \mathbf{E} \mid \mathbf{E} \stackrel{\mathrm{\tiny{(1)}}}{\equiv} \mathbf{G} \mid \mathbf{E} \stackrel{\mathrm{\tiny{(2)}}}{\equiv} \mathbf{E} \mid \mathbf{E} \mid$	
	Path: p	Words:0 //

- 4. Enter the Template Title
- 5. Complete the content for the Note, inserting any relevant parameters
- 6. Click Save.

Removing a Template

Within the Types>Response tab, only templates created for the Item Type can be deleted. Templates created at the Category level must be deleted within the Category>Responses tab.

To delete a template within an Item Type:

- 1. Go to the Responses tab
- 2. Click Edit
- 3. Check the box in the column next to the template Title

Add Remove	
D Title	🛓 Category
🔲 R1	ø
Request Log File	9
1 - 2 of 2 Results	
	Cancel Save

- 4. Click
 - Remove
- 5. Click Save.

1.38 Create a Manufacturer

Manufacturers are created and assigned to an Item Type to establish the distributor of the Type.

1.38.1 Creating a New Manufacturer

To create a new Manufacturer when creating a new Item Type:

- 1. Leave the Manufacturer field blank
- 2. Click the 🔂 button
- 3. Enter the Manufacturer name as well as any other details
- 4. Click Save.

The screen will return back to the Item Type Information window and display a confirmation that the Manufacturer has been created successfully.

1.38.2 Editing a Manufacturer

Existing Manufacturers can be modified within the Item Type screen.

To edit a Manufacturer:

- 1. Select the Manufacturer from the list provided
- 2. Select 🗱 to open the Manufacturer information screen in Edit mode

The system will inform the User that any changes made to the Manufacturer will undo any unsaved Item Type changes. Click OK to continue.

Manufacturer I	Editor	
Details	Types	
	My Compan	y
Details		
Manufacturer	My Company	
Short Name	New Manufacturer	
Address		
City		
Zip		
Country	•	
Phone		
Fax		
URL		
	Delete Cancel Save	

- 3. Make the required changes
- 4. Click Save

The screen returns to the Item Type screen.

5. Click Save and Done.

The screen reverts to the Item Type list view.

1.39 Items



Configuration Items within the system are referred to as Items. Items have multiple connections with other elements throughout the application, these may include Customers, Organizational Units and Service Level Agreements. The table below outlines how Items interact with other system elements:

Element	Relationship
Customers	Each Item must be assigned to one or more Customers who are the Owners of the Item. This Customer may be Everyone, making the Item a Global Item. Only Item Owners are able to raise requests against an Item. See <u>Creating Items</u> .
Service Level Agreements (SLAs)	Service Level Agreements can be linked as follows:
	Per Item
	Per Customer
	Per Request
	 Per Organizational Unit.
Teams	Within Item Types, Default Teams are assigned to Items. When requests are raised for an Item, they will be assigned to the Default Team.
Technicians	Technicians can be associated with Skills based on Items, Item Types and Classifications. When a request is raised with the combination of Item Type and issue Classification, it is assigned to that Technician. SeeClassification Tab.
Outages	Where states in the Lifecycle of an Item Type are defined as Off-line, when an Item is in an Off-line state, it will appear in the Outages page. See Categories LifeCycle.

An Item record consists of the following attributes:

- Information Tab
- Details Tab
- Costs Tab
- Requests Tab
- Relationships Tab
- Outages.

Options available within the Items screen include:

- New Create an Item
- Search Search for an Item
- Bulk Allows the User to update details of multiple Items in a single screen.

Filter views that are available within the Configuration>Items screen include:

Filter	Relationship		
All Items	All Items stored within the CMDB, regardless of the assigned Lifecycle State.		

Filter	Relationship
Hardware Catalog	All Items that use the Hardware Category Template stored within the CMDB, regardless of the assigned Lifecycle State.
Service Catalog	All Items that use the Service Category Template stored within the CMDB that are in an active Lifecycle State.
Service Pipeline	All Items that use the Service Category Template stored within the CMDB that are assigned a Pre-production Lifecycle State.
Service Portfolio	All Items that use the Service Category Template stored within the CMDB, regardless of the assigned Lifecycle State.
Software Catalog	All Items that use the Software Category Template stored within the CMDB, regardless of the assigned Lifecycle State.

1.39.1 View an Item

Within the Item sub-menu option, Users can view a list of Items created within the system. To view the details of an Item, select the Item Number hyperlink and the Item Information screen is displayed. The Item Information screen includes tabs for the following information:

- Attribute details
- Relevant costs
- Requests created against the Item
- Relationships associated with the Item
- Planned Outages associated with the Item..

1.40 Creating an Item

1.40.1 Creating an Item during request creation

To create a new Item for the Customer after they have been assigned to the request:

1. Move to the Find Item field

Find Item			
Item Number		Item Type	
 ✓ Include Global* Items ✓ Active Items Only 		 All Items All Assigne By Custom By Org. United 	er
Category Mobile Devices			
Advanced Search	•		Click to open Item information screen
Field		Value	A.
Memory Card	•		
IMEI Number	•		
			0 0

2. Click to add a new Item using the Find Item Type field

An expanded Item information screen appears, with the Item number field completed.

Item Information	
Information	Details Costs Requests Relationships Outages AMIE Snapshots
Number	
Category	
Туре	Find Item Type (Name)
Request Team	
Incident Team	
Problem Team	
Change Team	
Criticality	
Service Level	
Ownership	
	Everybody Find Customer (Last Name)
Org. Units	i All Find Org. Unit (Name)
Affects	13 Users
	Cancel Next

- 3. Enter the Item Type Name in the Find field, or leave empty and click 💽
- 4. Select the Item Type hyperlink to assign the details to the new Item
- 5. Enter other required information
- 6. Click Next

The Item Details tab is displayed.

- 7. Enter any known Item details
- 8. Select Save.

The Item details are saved, select Next to complete the request creation process.

NOTE: This option is only available to Technicians if the system Administrator has enabled the Create Items option within the Setup>Privileges>User screen of the application.

1.40.2 Item Information

Item information allows the User to configure the basic information for the Item, most of which is pre-populated based on the Item Type selected for the Item. Within this screen the owners of the Item are also assigned.

To create an Item:

- 1. Select Configuration > Items
- 2. Click New

The Item Information screen appears.

Item Information							
Information	Details	Costs	Requests	Relationship	ps Outages		
Duplicate	屵 Print				ltem # 10	0002 (Service D	esk)
Number	100002						
Category	Service						
Туре	Service Desk						
					Find Item Type (Name)		0
							9
Request Team							
Incident Team	Default Incident Team	•					
Problem Team		-					
Change Team		•					
Status	Available	•					
Criticality		•					
Service Level		•					
Ownership							
Customers							
					Find Customer (Last Na	me)	
							0
Org. Units	My Company				Find Org. Unit (Name)		
					rind org. onit (nume)		0
Affects	1 Users						
Item Manager							
					Find Item Manager (Las	Name)	0
							0
			Delete	Disable	Cancel	Save	

Item	Description
Item Number*	If the Administrator has set the Item Numbers Editable option in Setup> Privileges> System to Yes, the User will have the option of entering a customized Item number. It may contain numbers and/or letters, and be between 1 and 64 characters in length.
	As no two Item Numbers can be the same, the User will be prompted to change the value they have entered if it is already in use. If the Item Number field is left blank, the system will automatically create an Item Number.
	If the Administrator has set the Item Numbers Editable option to No, an Item Number will be generated automatically and cannot be edited.
Category*	This is auto-filled, based on the assigned Item Type.
Туре*	This is the Item Type that the Item represents. Click the Search button to view the list of available Item Types.
Team*	This is the Technician Team that will be assigned to support the Item.
Status*	Select the status from the drop-down options displayed after the Item Type has been assigned.
Criticality*	Rates the degree of importance of an Item Type within an organization. The 'Impact' of a request is initially pulled from the Criticality of the Item, but can be adjusted within the request Information screen if required. Requests logged through the Customer Portal, use the Criticality of the Item to determine the Priority of the request. (See additional information below.)
Service Level	Select the Service Level Agreement from the drop- down list, if required.
Ownership	

Item	Description
Customers	These are the Customers who own the Item. A single Customer, a group of Customers or all Customers in the application can be assigned to an Item.
	 Enter a Customer last name, or leave blank then click the Search button to view a list of all available Customers.
	Click on the hyperlink for the relevant Customer name or names to assign them to the Item.
	If no specific Customer is allocated to the Item, it becomes a Global Item and is assigned to Everyone.
Org Units	These are the Org Units who own the Item. The Item can be assigned to one or multiple Organizational Units.
	To assign an Org Unit:
	 Enter an Org Unit name, or leave blank then click the Search button to view a list of available Org Units.
	 Click on the hyperlink for the relevant Org Unit name or names to assign them to the Item.
	3. NOTE: If Billing is enabled an owner must be assigned to the Item. The owner can be either a Customer or an Org Unit, but only Org Units that have a Primary Contact, will be displayed in the Org Unit Search list. (See: Primary Contact.)
Notification	
Method	This field is visible when an active Item moves into an offline State and allows the User to define who (Primary Contact or All Owners of the Item) and how (Email or SMS), Customers will be notified that the Item is not available.

*Denotes mandatory fields

- 4. Search and select an Item Type
- 5. Select a support Team for each process
- 6. Select the Item's Status and Criticality
- 7. Assign a Service Level

If Contracts are enabled for the system, the assignment of an SLA will result in an annual service contract automatically being applied to the Item. If an SLA is not assigned, a Contract can be created for the Item within the Costs tab.

- 8. Search and select a Customer and/or an Organizational Unit owner
- 9. Click Next to view the Details tab.

Item Criticality

The Item Criticality is used to identify the degree of importance of an Item to an Organization.

When the Incident Priority is set to Derived in the Administrator Setup, the Impact of a request is mapped from the Criticality of the Item associated with the request and then combined with the selected Urgency, which derives the Priority of the request. If required, the Impact can be manually adjusted within the request Information screen. Requests logged through the Customer Portal, use the Criticality of the Item to determine the Priority of the request, which can be manually adjusted by the Technician User.

The following table displays the calculations applied by the system to the Item Criticality, which is mapped to a request's Impact to determine a request's Priority:

Impact / Urgency	Urgent	High	Moderate	Low	Very Low
Critical	1.000	0.850	0.700	0.550	0.410
High	0.850	0.723	0.595	0.468	0.349
Moderate	0.700	0.595	0.490	0.385	0.287
Low	0.550	0.468	0.385	0.303	0.226
Very Low	0.410	0.349	0.287	0.226	0.168

The above calculations result in the following Priorities:

Priority	Upper	Lower
Urgent	1	0.83
High	0.83	0.58
Medium	0.58	0.34
Low	0.34	0

The Incident Analyzer, if enabled by the Administrator in Setup>CMS>Incident Analyzer, can apply the Criticality to automatically detect Problems. The minimum Criticality level can also be used to determine the off-line Items that appear on Outages pages, if the Outages pages are enabled by the Administrator in Setup>Privileges>System.

Create an Item with Contracts Enabled

When Contracts are enabled with Billing, Items, Customers and Organizational Units can be linked together using a service contract. To automatically apply the system default support contract when creating an Item, simply select an SLA and an annual contract is applied. However, if an SLA is not required but a service contract is, the contract can be created within the Costs tab of the Item. See:Costs Tab.

1.40.3 Details

Once the basic information for an Item has been completed, additional details can be defined for the Item. The Details tab displays a list of custom fields set for the Item's Category. The information to be completed within this section is configured by the Supervisor when customizing the Item Type templates in Configuration > Categories. Fields marked as Required, must be completed for the Item Details of the Item to be saved successfully.



For more information about Item custom fields, see: Categories.

Clicking Save at the far bottom of the page after the Details tab has been completed, will create the Item and save it to the database.

NOTE: Items can be duplicated at any time by clicking the Duplicate button. A new Item is created with properties that are identical to the original Item (with the exception of the Item Number, as this must be unique and is generated automatically).

Item Description

Content entered in the Description field is made available on the Customer Portal in the expanded information window for an Item. For Service Items, where a description of the Service may be required within the Customer Portal, details about the Service can be completed within the Item Description field. The Item and Service information can be expanded by completing Item attribute fields that are marked as Customer Visible and therefore displayed in the Customer Portal.

To add an Item Description, within the Item's Details tab:

- 1. Click Edit
- 2. Move to the Description tab
- 3. Add information in the Description field

	Description	Notes	Attachments	Audit Trail
Description	Format Font Family Font Size Font Size			
	Used by the admin department to provide payroll and HR	software.		
	Path: p		Words:11	
		Delete	Cancel	Save

4. Click Save.

Item Notes

To add Notes to an Item, under the Item's Details tab:

- 1. Click Edit
- 2. Select the Notes tab

		Description	Notes	Attachments	Audit Trail
Date	₹ Note		Ву	≣	New
		0 - 0 of 0 Results			
		Delete	Disable	Cancel	Save

- 3. Click New
- 4. Enter details in the Notes field

	Description	Notes	Attachments	Audit Trail
Format	Font Size 🔻 📾 🥳 нтт.			
<u>A</u> - B <i>I</i> <u>U</u> AB€ ⋮≣ і∰				
adding a note				
Path: p			Words:2	h.
		(Cancel Save	
	Delete	Disable	Cancel	Save

5. Click Save.

The Note will be allocated an identification number hyperlink for access. It will also be time and date-stamped.

Item Attachments

To add Attachments to an Item, within the Item's Details tab:

- 1. Click Edit to display the Attachment tab New button
- 2. Click New

	Description	Notes	Attachments	Audit Trail
File Description	≣ Size	Date	₹ Visibility	New New
	0 - 0 of 0 Results			Delete
	Delete	Disable	Cancel	Save

- 3. Browse and select a file
- 4. Enter a Description, if required
- 5. Adjust Private and Public option, if relevant

Selecting Public will make it accessible on the Customer Portal, when the Item is in a Customer Visible state.

6. Click Upload

Item Outages

Planned outages can be created for an Item under the Outages tab. This is a period of time an Item will not be available for a Customer's use.

If an Item has an SLA with a specified Blackout Period, Outages should be planned to fall within this time. The Blackout Period is an agreement between the Customer and the Service Desk regarding a period of time when the Customer has no service expectations. This can also be the preferred time for Item upgrades and maintenance without affecting service availability.

When an Outage is being created, the Blackout Periods times are displayed to ensure the User creates a new Outage that does not breach the Item's SLA.

Creating an Outage

To create an Outage:

- 1. Select Configuration > Items
- 2. Select the Item Number
- 3. Go to the Details tab
- 4. Click Edit
- 5. Go to the Outages tab

Item	n Information						
	Information	Details	Costs	Requests	Relationships	Outages Al	MIE Snapshots
	New					Item Number 1000	(WIFI Service)
No.	Start Date	🛓 End Date	Reason		Ву	=	
			0 - 0 of 0	Results			
						Cancel	Save

6. Click New

Item Information	
Information D	Details Costs Requests Relationships Outages AMIE Snapshots
Details	
Interval	One Time
Start Date	
End Date	
Notification	None
Offline Status	Offline 💌
Online Status	Deployed 💌
Reason	
	Cancel Save

The screen will expand to display the Outage Editor screen including the Blackout Period, if defined for the Item associated SLA. Within the table the start and end time is displayed as Local Time and Actual Time:

- Local Time is based on the time zone of the logged in User
- Actual Time is based on the SLA time zone.
- 7. Define the Interval for the Outage

Select One Time if the Outage is a one off, or set regular outages based on a weekly or monthly basis.

8. Enter the Outage details

Select the Start/End Date within the calendar, and modify the Time accordingly inside the calendar pop-up.

- 9. Set the Notification method and recipients, for when the Outage is saved.
- 10. Tick the Reminder Email field, if a reminder is to be emailed to defined recipients prior to the Outage time
- 11. Define the length of time before the Outage occurs that the reminder is to be sent

Notification	Ema	ii 💌	Primary Contacts	•
Reminder	1	24 hours	▼ before outage.	

- 12. Complete the Reason for the Outage
- 13. Click Save.

The Outage notification is sent to the defined recipients upon save.

See Outages for more information on setting up and viewing Item Outages.

Item Audit Trail

The Audit Trail tab records all changes that are made to fields within the Item Information and Details screens. These entries are made to record all the alterations made to Items and the CMDB.

To view an audit trail entry, under the Item Details tab:

- 1. Select the Audit Trail tab
- 2. Click on the identification number hyperlink to display the entry details.

		Description Notes	Attachments	Audit Trail
No.	E Date	₹ Event	Ву 🔳	8
89	01/05/16 14:57	Relationship created. Service Desk #Service Desk i	Sankar R	
82	01/05/16 12:33	Warranty Date changed from '16 Jan 2016' to '5 Feb	Sankar R	
81	01/05/16 12:33	Warranty Date set to '16 Jan 2016'		
72	01/05/16 11:42	Added 'James Stewart' as an owner of this item	Kamal K	
51	12/10/15 04:59	Item Number changed from '100002' to 'Service Desk	Sankar R	
		1 - 5 of 5 Results		
		Delete	Cancel	Save

Rollback Option

All changes recorded in the Audit Trail can be rolled back to reinstate information recorded against an Item.

To return to Item details to previously saved information:

- 1. Click Edit
- 2. Select the identification number hyperlink of the entry to be reversed
- 3. Click the Rollback button
- 4. Save the Item.

The Item details will revert to information recorded before an update was made.

1.40.4 Costs

For Users who are not assigned the Finance Role, the Costs Tab displays SLA Details and Item Availability information. Users who are assigned the Finance Role, also have access to the Item's financial and contractual details. The following Item Costs details include:

- Base cost
- Purchase date and related information
- Depreciation data
- Inherited costs
- SLA and Contract details
- Availability statistics.

Completing the Depreciate Over field causes the application to automatically keep track of the Item depreciation over the specified number of years. The current value of the Item after depreciation is displayed at Depreciated Value. The Audit Date field is used to record the date when the Item was last audited.

For Service Items see: Service Item Costs Tab

n Information			
Information	Details Co	Requests Relations	hips
Edit	Duplicate		Item # 100005 (Serve
Financial		SLA Details	
Cost	\$0.00	Service Level	Warranty
Monthly Cost	\$0.00		
Purchase Date	08/01/10 19:03	Warranty	
Depreciate Over	years	Expires	
Depreciated Value	\$0.00	Availability	
Audit Date (mm/dd/yy)		Avg Repair Time	
PO Number		Avg Time To Fail	I N/A
Inherited Costs			
Inherited Capital			
Inherited Ongoing			
Delegate Costs	OYes ⊙No		
			Done

The Financial Costs and Inherited Costs fields allow the support organization to assign costs across related Items and charge Users and/or Organizational Units appropriately.

Financial	Description
Cost	The financial investment made to purchase the Item. This figure is also used when the Delegate Costs is enabled for allocating costs across related Items.
Monthly Cost	The amount invested on a monthly basis to maintain the running of an Item. This figure is also used when the Delegate Costs option is enabled for allocating costs across related Items.
Purchase Date	The date the Item was purchased.

Financial	Description
Depreciate Over	Enter the number of years the Item is to be depreciated over, if required.
Depreciated Value The system calculates the current value of t based on the Purchase Date and the numbe the Item is to be Depreciated Over.	
Audit Date	Set the date the Item is next to be audited.
PO Number	If Purchase Orders are enabled for the system, the field is visible and automatically populated with the PO number generated by a User within the Finance>Purchase Orders tab, when the Item order was recorded in the system.
Inherited Costs	
Inherited Capital	Total infrastructure costs of parent CI's that directly contribute to the cost of the current CI. This figure is derived from all the Cost fields within the Item Information>Costs tab of related Parent Items.
Inherited Ongoing	Running costs of all associated Items that enable the current CI to continue to function. This figure is derived from all the Monthly Cost fields within the Item Information>Costs tab of related Parent Items.
Delegate Costs	To enable cost delegation across the relationship map allowing associated Items to inherit the costs of the current CI, select Yes. This will take the figures from the Cost and Monthly Cost fields for the Item and spread them across related Child Items.
	Define the technique to be used to evaluate the cost split:
	<i>Child Count</i> :Costs are split by percentage based on the number of child CI's the costs are being delegated across.
	<i>User Count</i> :Costs are split proportionally based on the number of users of the child CI's the costs are being delegated across.
	<i>Custom %</i> : The relationship itself allows for the % cost to be assigned

The figures displayed within the Availability fields are automatically calculated by the application, using the Item Lifecycle as it moves between online and offline States:

Availability	
Avg Repair Time	Entries displayed here are automatically calculated based on the average length of time an Item is offline.
Avg Time To Fail	Figures displayed here are automatically calculated based on the average time between an Item being offline.

Billing Enabled

When Billing is enabled, a Service Level hyperlink is available within the Costs screen. This provides access to the Service Level Agreement details that govern the lifecycle for Requests logged against the Item.

em Informatio	n						
Information		Details	Costs	Requests	Relationships	Outages	AMIE Snapshots
Edit	Du	ıplicate 🛛 🛱	Print			Item # Wifi S	ervice (WIFI Service)
Contr	ract						
Service L	evel War	ranty					
Contra	ict # 9						
Contract T	īype Sub	scription					
Invoid	ce # 100	019					
Start D)ate 01/0)7/16					
End D)ate 02/0	9/17					
Exp	ires 1 Ye	ar 28 Days					
Warra	anty						
Exp	ires 02/0)3/16					
Availab	ility						
Avg Repair T	ime N/A						
Avg Time To	Fail N/A						
							Contracts
Contract # 👳	Туре	SLA	Invoice #	Start Date	≣ End [Date 🔳	
9	Per Item	Warranty	100019	01/07/16	12:09 02/09	/17 23:59	
			1 - 1 of 1 Resul	ts			
							Done

If Invoices are also enabled, an Invoice Number hyperlink is available and when selected, will display the invoice details for the Contract that covers the Item. The Start Date and End Dates stipulate the contract length covered for the Item. It is summarized by the days or hours recorded in the Expires field.

The Contract tab within the Item Information Costs tab summarizes the contract details that cover the Item. Further Contract details can be found within the relevant Contract Number within the Finance>Invoices screen.

Create a Contract

Through the Item Costs tab, Contracts with an associated Invoice Number (if relevant) can be generated for an Item, after it has been logged in the system.

To add a Contract to an Item, within the Configuration>Item screen:

- 1. Select the Item Number
- 2. Move to the Costs tab

The Contracts tab is visible in the bottom right corner of the screen

3. Click Edit

The Add and Delete buttons are made available within the Contracts tab

						Contracts
🖾 Contract #	च Туре	SLA	≣ Start Date	≣ End Date	≣	Add
		0 -	0 of 0 Results			Delete
			Delete	Disable	Cancel	Save

4. Click Add

(If Invoices are enabled in the system, an Invoice number will be automatically generated and assigned to the Contract).

Item Information	
Information	Details Costs Requests Relationships Outages AMIE Snapshots
Contract	
Invoice Number	100016
Service Level	
	Warranty Cancel

5. Select an SLA from the drop-down option

The screen will display the SLA details and the Contract Type locked to Per Item.

m Information							
Information	Details	Costs	Requests	Relationsh	ips O	utages	AMIE Snaps
Contract Invoice Number	100016						
Service Level							
	Priority	Response Time	Restoration Time	Resolution Time	24 x 7 supp	ort Alert	
	Urgent	6 Hours	12 Hours	24 Hours	Yes	None	
	High	12 Hours	24 Hours	48 Hours	Yes	None	
	Medium	18 Hours	36 Hours	72 Hours	Yes	None	
	Low	24 Hours	48 Hours	96 Hours	Yes	None	
Contract Type	Per Item						
Time	Subscription	-					
	Subscription						
Start Date	Time Limited						
End Date	Support Hour Support Hour						
Notes			,				
	\$0.00						
	\$0.00						
Taxable							
Total Cost	\$0.00						
						Cancel	Save

6. Assign the Time period to be covered by the Contract:

If *Subscription* is selected, the Start and End Dates are automatically completed by the system, but can be edited if required.

If *Time Limited Subscription* is selected, the Support Hours field is displayed and the number of support hours purchased by the Customer should be entered. Also, the Start Date and End Date fields should be completed manually, entering the length of time for the subscription period.

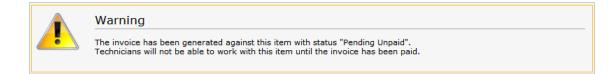
If *Support Hours* is selected, the number of support hours purchased by the Customers should be entered.

If *Support Hours by Month* is selected, set the number of hours purchased per month and define which day of the month contract is to rollover to start the new month. The Total Support Hours will automatically be calculated based on the Start and End Dates set for the Contract.

(If a Contract is forward dated with a Start Date set in the future, the Pending Contract status is assigned. See Pending Contracts.)

- 7. Add any relevant Invoice Notes
- 8. Check the Taxable box, if the Contract is to be taxed
- 9. Click Save.

If Invoices are enabled in the system, an Invoice number will be automatically generated for the Contract and made available within Finance>Invoices. Payment will need to be processed by a Finance User before the Contract can be enabled in the system. If invoice payment is required before the contract can be enabled in the system the following Warning message is displayed:



10. Click Next

The Contracts information is only populated after the Invoice has been processed. To process the Invoice, as a Finance User move to the Finance>Invoices tab. Once the relevant Invoice payment has been processed the Contract details will be visible in the Costs >Contracts tab.

tem Infor	mation							
Inform	nation	Details	Costs	Req	uests Rela	tionships	Outages	AMIE Snapshots
Edit		Duplicate	🛛 🛱 Print		Iten	n # srm-tst-nsd0(00c29485caa	a (Dell Latitude E6430)
	Contract							
Se	rvice Level	Warranty						
	Contract #	7						
Cor	ntract Type	Subscription						
	Invoice #	100016						
	Start Date	01/05/16						
	End Date	01/05/17						
	Expires	1 Year 1 Day						
	Warranty							
	Expires							
A	vailability							
Avg F	Repair Time	N/A						
Avg 1	Time To Fail	N/A						
								Contracts
Contract #	₹ Туре	SLA	I	Invoice #	Start Date	End Date	≣	
7	Perl	tem Warı	anty	100016	01/05/16 12:23	01/05/17 23	:59	
6	Perl	tem Warr	anty	100013	01/05/16 12:19	01/05/16 12	:19	
			1.	2 of 2 Results				
								Done

1.40.5 Requests

This section lists all the requests that have been logged against an Item. For Technician Users, this tab is only visible to when the View All Requests option is enabled in the Setup>Privileges>User tab.

Use the system list filter to display the relevant type of request or task. To expand and view the request in full, select the Task # or Problem Report hyperlink.

Item Ir	nformation							
In	formation	Details		Costs Req	uests Relationships	Outages	AMIE Sna	oshots
						Item #Wi	ifi Service (WIF	Service
							Incidents [sys]	•
Task #	₹ Process ≣	Date	Status	Technician	Problem Report			
100015	Incident	12/10/15 09:01	Closed - Resolved	Vaibhav Jain	Not able to get wifi access			
100014	Incident	12/10/15 05:53	Closed - Resolved	Kamal K	Not able to connect to Wifi			
100013	Incident	12/10/15 05:50	Closed - Resolved	Kamal K	Connect to Wifi			
100012	Incident	12/10/15 05:49	Pending	Kamal K	unable to connect to Wifi			
				1 - 4 of 4 Res	ults			
							Don	e

1.40.6 Item Relationships

This Relationship Tab allows Users to view and/or create a Relationship Map for the current Item, with other Items within the CMDB.

The Relationship direction can be defined as:

- Service Oriented Parent-Child Relationship
- Component Oriented Child-Parent Relationship.

Within each view the Relationship Class can be defined as:

- Hierarchical Relationship
- Connection an association between the selected Items.

For a Service, such as the Email or Web Site Service, it is recommended that the Hardware be defined as the Parent for the Software Items and the Software be defined as the Parent of the Email or Web Site Service.

Create a Relationship

To create a new Item Relationship:

- 1. Select Configuration>Items
- 2. Select an Item
- 3. Select the Item's Relationship tab
- 4. Click Edit
- 5. Click New
- 6. Select the Relationship Direction and Class from the drop-down menus
- 7. Define the Relationship by selecting a description from the drop-down list

Item Information						
Information	Details	Costs	s Requ	iests Relatio	nships	Outages AMIE Snapshots
日本 Print				I	ltem # Micr	rofocus - Intranet (Website Services)
Direction	Parent - Child		•			
Туре			-			
Related Item	Hierarchical Connection					
	Item Number	Ite	ет Туре	Org. Unit		
						•
	Item #	🔳 Item Type	Identifier	Status	≣	
	jdk-7u60- windows-x64	Windows Bun	dle	Installed		
	Wordweb7	Windows Bun	dle	Installed		
	Firefox 1.0	Windows Bun	dle	Installed		

- 8. NOTE: If the Relationship Type has the Inherit Parent Ownership option enabled, Child Items that use this relationship will inherit the Parent Item's owners. The ownership will not be editable and no other Parent Item can be assigned to the Child Item. A warning will be displayed if a relationship type has the Inherit Parent Ownership option enabled.
- 9. Use the Find Item field to locate the relevant Item
- 10. Click on the Item Number hyperlink to create the Relationship
- 11. Click Save to default to the Relationship Map view.

Relationship Map

Within the Relationships tab of the Item Information screen, a Relationship Map visually displays the connections that have been defined for an Item. All Item Relationships are listed in the Relationships Table beneath the Map. The Relationship Map can display up to 48 Child Items and 16 Parent Items in the one diagram.

The central icon of a Map is a visual representation of the selected Item. Scroll over an Item label to view any information recorded on the Information and Details tabs of the Item. To drill-down through the relationships, click on an Item label. To change the focus of the Relationship Map to another Item, click on the Item label and the system will request that OK be selected before updating the central node of the Map.

The Relationship Table data displayed at the base of the map can be filtered using the Direction filter view of Parent-Child or Child-Parent.



The map displays the relationship between each Lifecycle State by using different colors to represent the type of Lifecycle State.

Color	
Green Circle	CI is assigned an online status.
Red Square	CI is assigned an offline status.
Blue Triangle	Service CI is assigned a pre-production status.

The Lifecycle State name can be accessed by scrolling over the Item icon within the Map.

To delete a Relationship:

To remove the Relationship between Items:

- 1. Select the relevant Item within the Configuration tab
- 2. Move to the Relationships tab
- 3. Click Edit
- 4. Select Delete

A table with the Relationship details is displayed.

Item Information				
Information	Details	Costs	Requests Relationships	Outages AMIE Snapshots
日 Print				Item # Service Desk (Service Desk)
Direction	Child - Parent			Display: 10 💌
Relationships	Current Item	■ Relationship	■ Related ■ Item # Item	Identifier Category ≣
	Service Desk	is a child of	Windows Microsoft Bundle 2010	Service
			1 - 1 of 1 Results	
			(Cancel Delete

- 5. Select the Relationship Direction to display the relevant Relationship table
- 6. Mark the checkbox next to the Relationship that is to be removed
- 7. Select Delete
- 8. Click Done to return to the Item list.

Users can view and create relationship maps for current Item with other Items within the CMDB within the Relationships tab to define the infrastructure that underpins Services within the Service Catalog. For more information about creating a Service catalog and relationship mapping, see: Service catalog.

AMIE Item Imports and Relationships

Items with Item relationships that have been imported using the AMIE engine, retain the relationships that exist within the Asset Management Tool. A visible map of the relationships is recorded within the Relationships tab.

1.41 Create an Item

When an Item is created within the system it takes the generic settings of an Item Type and binds them to a Customer or Customers and/or Organizational Unit. The Item information uses the details defined in the Item Type template, however these can be adjusted to suit the requirements of the specific Item.

To create an Item:

1. Select Configuration > Items

2. Click New

The Item Information screen appears

Item Information							
Information	Details	Costs	Requests	Relationshi	ps	Outages	
Duplicate	¦ Print					Item # 100002	2 (Service Desk)
Number	100002						
Category	Service						
Туре	Service Desk				Find Item	n Type (Name)	0
Request Team		•					
Incident Team	Default Incident Team	•					
Problem Team		•					
Change Team		•					
Status	Available	•					
Criticality		•					
Service Level		•					
Ownership							
Customers					Find Cus	tomer (Last Name)	
							۹
Org. Units	My Company				Find Org.	. Unit (Name)	
							۲
Affects	1 Users						
Item Manager							
					Find Item	n Manager (Last Nan	ne)
			Delete	Disable		Cancel	Save

*Denotes mandatory fields. 3. _____

Item	Description
Item Number*	If the Administrator has set the Item Numbers Editable option in Setup> Privileges> System to Yes, the User will have the option of entering a customized Item number. It may contain numbers and/or letters, and be between 1 and 64 characters in length.
	As no two Item Numbers can be the same, the User will be prompted to change the value they have entered if it is already in use. If the Item Number field is left blank, the system will automatically create an Item Number.
	If the Administrator has set the Item Numbers Editable option to No, an Item Number will be generated automatically and cannot be edited.
Category*	This is auto-filled, based on the assigned Item Type.

Item	Description
Туре*	This is the Item Type that the Item represents. Click the Search button to view the list of available Item Types.
Team*	This is the Technician Team that will be assigned to support the Item.
Status*	Select the status from the drop-down options displayed after the Item Type has been assigned.
Criticality*	Rates the degree of importance of an Item Type within an organization. The 'Impact' of a request is initially pulled from the Criticality of the Item, but can be adjusted within the request Information screen if required. Requests logged through the Customer Portal, use the Criticality of the Item to determine the Priority of the request. (See additional information below.)
Service Level	Select the Service Level Agreement from the drop- down list, if required.
Ownership	
Customers	These are the Customers who own the Item. A single Customer, a group of Customers or all Customers in the application can be assigned to an Item.
	 Enter a Customer last name, or leave blank then click the Search button to view a list of all available Customers.
	 Click on the hyperlink for the relevant Customer name or names to assign them to the Item.
	If no specific Customer is allocated to the Item, it becomes a Global Item and is assigned to Everyone.

Item	Description				
Org Units	These are the Org Units who own the Item. The Item can be assigned to one or multiple Organizational Units.				
	To assign an Org Unit:				
	 Enter an Org Unit name, or leave blank then click the Search button to view a list of available Org Units. 				
	 Click on the hyperlink for the relevant Org Unit name or names to assign them to the Item. 				
	3. NOTE: If Billing is enabled an owner must be assigned to the Item. The owner can be either a Customer or an Org Unit, but only Org Units that have a Primary Contact, will be displayed in the Org Unit Search list. (See: Primary Contact.)				
Notification					
Method	This field is visible when an active Item moves into an offline State and allows the User to define who (Primary Contact or All Owners of the Item) and how (Email or SMS), Customers will be notified that the Item is not available.				

- 4. Search and select an Item Type
- 5. Define a support Team for each process
- 6. Select the Item's Status and Criticality

(Refer below for further details about Item Criticality.)

7. Assign a Service Level

If Contracts are enabled for the system, the assignment of an SLA will result in an annual service contract automatically being applied to the Item. If an SLA is not assigned, a Contract can be created for the Item within the Costs tab.

- 8. Search and select a Customer and/or an Organizational Unit owner
- 9. Click Next to view the Details tab

1.41.1 Item Criticality

The Item Criticality is used to identify the degree of importance of an Item to an Organization.

When the Incident Priority is set to Derived in the Administrator Setup, the Impact of a request is mapped from the Criticality of the Item associated with the request and then combined with the selected Urgency, which derives the Priority of the request. If required, the Impact can be manually adjusted within the request Information screen. Requests logged through the Customer Portal, use the Criticality of the Item to determine the Priority of the request, which can be manually adjusted by the Technician User.

The following table displays the calculations applied by the system to the Item Criticality, which is mapped to a request's Impact to determine a request's Priority:

Impact / Urgency	Urgent	High	Moderate	Low	Very Low
Critical	1.000	0.850	0.700	0.550	0.410
High	0.850	0.723	0.595	0.468	0.349
Moderate	0.700	0.595	0.490	0.385	0.287
Low	0.550	0.468	0.385	0.303	0.226
Very Low	0.410	0.349	0.287	0.226	0.168

The above calculations result in the following Priorities:

Priority	Upper	Lower
Urgent	1	0.83
High	0.83	0.58
Medium	0.58	0.34
Low	0.34	0

The Incident Analyzer, if enabled by the Administrator in Setup>CMS>Incident Analyzer, can apply the Criticality to automatically detect Problems. The minimum Criticality level can also be used to determine which off-line Items are displayed on the Outages pages, when the Outages pages are enabled by the Administrator in Setup>Privileges>System.

1.42 Costs Tab

For Users who are not assigned the Finance Role, the Costs Tab displays SLA Details and Item Availability information. Users who are assigned the Finance Role, also have access to the Item's financial and contractual details. The following Item Costs details include:

- Base cost
- Purchase date and related information
- Depreciation data
- Inherited costs
- SLA and Contract details
- Availability statistics.

Completing the Depreciate Over field causes the application to automatically keep track of the Item depreciation over the specified number of years. The current value of the Item after depreciation is displayed at Depreciated Value. The Audit Date field is used to record the date when the Item was last audited.

For Service Items see: Service Item Costs Tab

Information	Details	Costs	Requests Relationsh	nips	
Edit	Duplicate	😫 Print			Item # 100005 (Serv
Financial			SLA Details		
Cost	\$0.00		Service Level	Warranty	
Monthly Cost	\$0.00				
Purchase Date	08/01/10 19:03		Warranty		
Depreciate Over	years		Expires		
Depreciated Value	\$0.00		Availability		
Audit Date (mm/dd/yy)			Avg Repair Time	N/A	
PO Number			Avg Time To Fail	N/A	
Inherited Costs					
Inherited Capital					
Inherited Ongoing					
Delegate Costs	Yes No				
	0.00 0.00				

The Financial Costs and Inherited Costs fields allow the support organization to assign costs across related Items and charge Users and/or Organizational Units appropriately.

Financial	Description
Cost	The financial investment made to purchase the Item. This figure is also used when the Delegate Costs is enabled for allocating costs across related Items.
Monthly Cost	The amount invested on a monthly basis to maintain the running of an Item. This figure is also used when the Delegate Costs option is enabled for allocating costs across related Items.
Purchase Date	The date the Item was purchased.
Depreciate Over	Enter the number of years the Item is to be depreciated over, if required.
Depreciated Value	The system calculates the current value of the Item based on the Purchase Date and the number of years the Item is to be Depreciated Over.
Audit Date	Set the date the Item is next to be audited.
PO Number	If Purchase Orders are enabled for the system, the field is visible and automatically populated with the PO number generated by a User within the Finance>Purchase Orders tab, when the Item order was recorded in the system.
Inherited Costs	
Inherited Capital	Total infrastructure costs of parent CI's that directly contribute to the cost of the current CI. This figure is derived from all the Cost fields within the Item Information>Costs tab of related Parent Items.

Financial	Description
Inherited Ongoing	Running costs of all associated Items that enable the current CI to continue to function. This figure is derived from all the Monthly Cost fields within the Item Information>Costs tab of related Parent Items.
Delegate Costs	To enable cost delegation across the relationship map allowing associated Items to inherit the costs of the current CI, select Yes. This will take the figures from the Cost and Monthly Cost fields for the Item and spread them across related Child Items.
	Define the technique to be used to evaluate the cost split:
	<i>Child Count</i> :Costs are split by percentage based on the number of child CI's the costs are being delegated across.
	<i>User Count</i> :Costs are split proportionally based on the number of users of the child CI's the costs are being delegated across.
	<i>Custom %</i> : The relationship itself allows for the % cost to be assigned

The figures displayed within the Availability fields are automatically calculated by the application, using the Item Lifecycle as it moves between online and offline States:

Availability	
Avg Repair Time	Entries displayed here are automatically calculated based on the average length of time an Item is offline.
Avg Time To Fail	Figures displayed here are automatically calculated based on the average time between an Item being offline.

1.42.1 Billing Enabled

When Billing is enabled, a Service Level hyperlink is available within the Costs screen. This provides access to the Service Level Agreement details that govern the lifecycle for Requests logged against the Item.

em Informa	tion							
Informa	tion	Details	Costs	Requests	Relations	nips Outag	ges	AMIE Snapshots
Edit		Duplicate	円 Print			Item #	Wifi Ser	vice (WIFI Service)
С	ontract							
Servio	ce Level	Warranty						
Co	ontract#	9						
Contra	act Type	Subscription						
Ir	nvoice #	100019						
St	art Date	01/07/16						
E	nd Date	02/09/17						
	Expires	1 Year 28 Days						
w	arranty/							
	Expires	02/03/16						
Ava	ailability							
Avg Repa	air Time	N/A						
Avg Time	e To Fail	N/A						
								Contracts
Contract #	₹ Type	SLA	≣ In	voice # Star	t Date 🔳	End Date	≡	
9	Perl	tem Warrar	ity 10	0019 01/0	7/16 12:09	02/09/17 23:59		
			1 - 1 of	1 Results				
								Done

If Invoices are also enabled, an Invoice Number hyperlink is available and when selected, will display the invoice details for the Contract that covers the Item. The Start Date and End Dates stipulate the contract length covered for the Item. It is summarized by the days or hours recorded in the Expires field.

The Contract tab within the Item Information Costs tab summarizes the contract details that cover the Item. Further Contract details can be found within the relevant Contract Number within the Finance>Invoices screen.

1.42.2 Create a Contract

Through the Item Costs tab, Contracts with an associated Invoice Number (if relevant) can be generated for an Item, after it has been logged in the system.

To add a Contract to an Item, within the Configuration>Item screen:

- 1. Select the Item Number
- 2. Move to the Costs tab

The Contracts tab is visible in the bottom right corner of the screen

3. Click Edit

The Add and Delete buttons are made available within the Contracts tab

						Contracts
🔄 Contract #	₹ Туре	SLA	≣ Start Date	≣ End Date	≣	Add
		0 -	0 of 0 Results			Delete
			Delete	Disable	Cancel	Save

4. Click Add

(If Invoices are enabled in the system, an Invoice number will be automatically generated and assigned to the Contract).

Item Information	
Information	Details Costs Requests Relationships Outages AMIE Snapshots
Contract	
Invoice Number	100016
Service Level	
	Warranty Cancel

5. Select an SLA from the drop-down option

The screen will display the SLA details and the Contract Type locked to Per Item.

m Information							
Information	Details	Costs	Requests	Relationshi	ips Ou	tages	AMIE Snaps
Contract							
Invoice Number							
Service Level	Warranty						
	Priority	Response Time	Restoration Time	Resolution Time	24 x 7 suppor	t Alert	
	Urgent	6 Hours	12 Hours	24 Hours	Yes	None	
	High	12 Hours	24 Hours	48 Hours	Yes	None	
	Medium	18 Hours	36 Hours	72 Hours	Yes	None	
	Low	24 Hours	48 Hours	96 Hours	Yes	None	
Time Start Date	Subscription Time Limited						
End Date	Support Hour Support Hour						
Notes							
Price	\$0.00						
Tax	\$0.00						
Taxable							
Total Cost	\$0.00						
						Cancel	Save

6. Assign the Time period to be covered by the Contract:

If *Subscription* is selected, the Start and End Dates are automatically completed by the system, but can be edited if required.

If *Time Limited Subscription* is selected, the Support Hours field is displayed and the number of support hours purchased by the Customer should be entered. Also, the Start Date and End Date fields should be completed manually, entering the length of time for the subscription period.

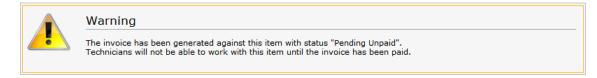
If *Support Hours* is selected, the number of support hours purchased by the Customers should be entered.

If *Support Hours by Month* is selected, set the number of hours purchased per month and define which day of the month contract is to rollover to start the new month. The Total Support Hours will automatically be calculated based on the Start and End Dates set for the Contract.

(If a Contract is forward dated with a Start Date set in the future, the Pending Contract status is assigned. See Pending Contracts.)

- 7. Add any relevant Invoice Notes
- 8. Check the Taxable box, if the Contract is to be taxed
- 9. Click Save.

If Invoices are enabled in the system, an Invoice number will be automatically generated for the Contract and made available within Finance>Invoices. Payment will need to be processed by a Finance User before the Contract can be enabled in the system. If invoice payment is required before the contract can be enabled in the system the following Warning message is displayed:



10. Click Next

The Contracts information is only populated after the Invoice has been processed. To process the Invoice, as a Finance User move to the Finance>Invoices tab. Once the relevant Invoice payment has been processed the Contract details will be visible in the Costs >Contracts tab.

em Inforn	nation						
Inform	ation	Details	Costs Re	equests Rela	tionships Out	ages	AMIE Snapshots
Edit		Duplicate 🛛 🖓 F	Print	Item) # srm-tst-nsd000c2	9485caa ([ell Latitude E6430)
	Contract						
Serv	vice Level V	Varranty					
C	Contract # 7	,					
Cont	tract Type S	Subscription					
	Invoice # 1	00016					
:	Start Date 0	1/05/16					
	End Date 0	1/05/17					
	Expires 1	Year 1 Day					
١	Narranty						
	Expires						
Av	ailability						
Avg Re	epair Time	I/A					
Avg Ti	me To Fail N	I/A					
							Contracts
Contract #	च Туре	SLA	Invoice #	Start Date	End Date	≣	
7	Per Ite	m Warranty	100016	01/05/16 12:23	01/05/17 23:59		
6	Per Ite	m Warranty	100013	01/05/16 12:19	01/05/16 12:19		
			1 - 2 of 2 Results				
							Done

1.43 Requests Tab

This section lists all the requests that have been logged against an Item.

Use the system list filter to display the relevant type of request or task. To expand and view the request in full, select the Task # or Problem Report hyperlink.

Item Information								
In	formation	Details		Costs Reques	ts Relationships	Outages	AMIE Snaj	pshots
						Item #W	Vifi Service (WIF	Service
							Incidents [sys]	•
Task #	₹ Process ≣	Date	Status	Technician	Problem Report			
100015	Incident	12/10/15 09:01	Closed - Resolved	Vaibhav Jain	Not able to get wifi access			
100014	Incident	12/10/15 05:53	Closed - Resolved	Kamal K	Not able to connect to Wifi			
100013	Incident	12/10/15 05:50	Closed - Resolved	Kamal K	Connect to Wifi			
100012	Incident	12/10/15 05:49	Pending	Kamal K	unable to connect to Wifi			
				1 - 4 of 4 Results)			
							Don	ie

1.44 Outages Tab

Planned outages can be created for an Item under the Outages tab. This is a period of time an Item will not be available for a Customer's use.

If an Item has an SLA with a specified Blackout Period, Outages should be planned to fall within this time. The Blackout Period is an agreement between the Customer and the Service Desk regarding a period of time when the Customer has no service expectations. This can also be the preferred time for Item upgrades and maintenance without affecting service availability.

When an Outage is being created, the Blackout Periods times are displayed to ensure the User creates a new Outage that does not breach the Item's SLA.

NOTE: To display the Outages tile, Planned Outages Page and Outages Page should be set to Yes in **Setup > Privileges > System | Outage Options**.

The Outage will be displayed only when the Minimum Criticality for an Item Category is set to equal or higher criticality, and the Item must be deployed.

For Item, Criticality must be equal to or higher than the Item Category Minimum Criticality setting.

To view the Outages Offline, go to the "Item Category" and ensure that the Offline State and Customer Visible are set to Yes.

1.44.1 Outages List View

This page lists all the outages. Using the filter option, you can view planned, current, and concluded outages.

You can perform the following actions in this page:

- Using the column headers, you can sort or search the outages at the header level.
- To view an outage, click the required outage tab.
- To edit an outage, click the required outage tab, and then click the 🖋 icon.
- To delete an outage, select the required outage, and then click the III icon.

1.44.2 Creating an Outage

To create an Outage, perform the following steps:

- 1. In ZENworks Service Desk portal, click Configuration > Outages.
- 2. In the Outages page, Click the **b** icon at the bottom of the page.

The changes are applied only you save the Outage.

inte		ITEMS					-REMOVE 4	€ ADD
UTERVIU.		ITEM #	IDENTIFIER	TYPE	OFFLINE STATUS	ONLINE STATUS	CURRENT STATUS	ŧ
One Time					No items Added			
TARE DATE:					AV INITI AND			
	曲							
NO DATE*								
	曲							
adminicationa								
haone B								
EASON*								

Planned Outages		
Details	Description	
Interval	Select One Time if the Outage is a one off, or set regular outages based on a weekly or monthly basis.	
Start Date	Select the Start Date within the calendar, and modify the Time accordingly inside the calendar pop-up.	
End Date	Select the End Date within the calendar, and modify the Time accordingly inside the calendar pop-up.	

Planned Outages	
Notification	Select Email or SMS Notification about the Outage is to be sent to the Primary Contact of the Org. Unit and All Owners associated with the Item, or All members of the Org Unit and All Owners associated with the Item.
Reminder	This option is displayed when a Notification is set for the Outage. If a Reminder notification is to be applied to the Outage, check the box and define the period of time prior to the Planned Outage period that the reminder is to be issued.
Reason	Enter a description that details why a Planned Outage is being scheduled.

- 3. To associate an item to outage, perform the following:
 - a. In the Items section, click Add.
 - b. In the Advanced Item Search, specify the required keywords to search the required items.
 - c. Select the required items, and then click Select Item.
 - d. Define the Offline Status and Online Status for the Item

These are the States the Item will be automatically assigned in the CMDB when the Planned Outage commences and ends.

- e. To view the blackout window, click the 🚾 icon.
- 4. Click Create.

To view the details of the Outage, select the Outage No. link in the Outage List View.

See: Outages for more information on setting up and viewing Item Outages.

1.45 Searching for an Item

To search for Items in the CMDB use the Search button on the Configuration>Items screen.

To search for an Item:

1. Click \bigcirc Search

A search page is displayed with the options to search across the Team, Item Status, Manufacturers, Global Items, Item Ownership, Item Categories and Types. There is also the option for the search results to return deleted Item information.

Search Items	
Global Options	Attributes Full Text
ltem No.	
Team	•
Description	
Notes	
Manufacturer	
Search Globals	All
	Disabled Items Only
	Store Capable Items Only
Owner Options	
First Name	
Last Name	
User Name	
Org. Unit	
Type Options	
Item Category	•
ltem Type	
Status	All
	C Active
	Inactive
	Cancel Clear Search

2. Define any Item Attributes

To complete a Full Text search select that option and then enter relevant text in the Term field. (See: Full text searches.)

3. Click $\mathcal{P}_{\text{Search}}$

A list of Items will be displayed.

For an advanced search on specific Item details, it is necessary to enter the Item Category. When this is selected the Item search page will expand:

Global Options 🧕 🌶	Attributes 🔘 Full Text	CPU		
	Attributes 🔍 Full Text			
Item No.		RAM		
Team	•	MAC Address		
Description		Network Address		
Notes		Network Name		
		Platform	Macintosh	*
Manufacturer	•		Unix Windows	
Search Globals All	•		WINDOWS	~
C 0	eleted Items Only	OS Version	Free BSD	
Owner Options			MacOS 9.x MacOS X.0	
First Name			MacOS X.1	-
		Version		
Last Name		Licenses		
User Name		Serial Number		
Org. Unit		Platform String		
urchase Order		-		
Option				
rchase Order No				
Type Options				
Item Category Har	dware 💌			
Item Type				
Status 🍥 🖉	All			
© 4	Active			
0 1	nactive			
0 9	Selected			

1.45.1 Tips on searching for an Item:

 Select the Deleted Items Only option to return a list of all Items that have been deleted in the system. To re-enable these deleted Items, once the search is executed, select the Item ID# followed by



- To search on an Item's Status, first select the Item Category
- To search on attribute fields of an Item, first select the Item Category
- To return a list of Items that are allocated to Customers or Org Units, select the Assigned Only option from the Search Globals drop-down list.

1.46 Full Text Search Options

A variety of search options, including the ability to search using terms or phrases, can be used to find information in the Knowledge Base or using any full text search fields included in system search screens. Search options include:

- A single character wildcard search using the ? symbol
- A multiple character wildcard search using the * symbol
- A fuzzy search using the tilde, ~, symbol at the end of a single word. For example, to find words similar to roam, enter roam~ and this will return terms like foam and roams.

When searching using a phrase, the group of words need to be entered in the Text field within double quotation marks, for example, "user account access". Complex searches can be conducted using a combination of phrases or terms with boolean operators and all search results are relative to the Team assignment of the User or Item ownership for a Customer.

The boolean operators (i.e., AND, NOT, OR, +) must be entered as uppercase letters. For example:

- "user" OR "account" returns results related to either word
- "user" AND "account" returns results with both words
- "user" NOT "account" returns results including "user" but not "account"
- +user account returns results that must contain "user" and may contain "account"

To further control the boolean logic, more complex searches can be conducted. For example, to search for either "user" or "account" and "access", the search words would be entered as: (user OR account) AND access. This will return results where "access" must be included, while either term of "user" or "account" is found.

Wildcards can be used to replace single character '?' and multiple characters '*' in search terms. For example, te?t, test* or te*t. Wildcards can not be used as the first character of a search.

Escape character searches are also supported in the system and include: + - & || ! () { } [] ^ " ~ * ? : \

NOTE: Search with () { } [] : ^ characters might not display proper results.

1.46.1 Field Searches

Within the system full text searches can be conducted on specific fields, these include:

Search Screen	Fields
Request	Subject, description, notes, attachments and solution.
Item	Number, itemtype, category, attachments and notes.
Knowledge Base	Title, summary, body, attachments, itemtype, classification, and custom1-5.
Forum	Title, content and author (last name).

To search on a specific field, within the Term or All Text field enter the name of the field to be searched on followed by a colon and the term or text. For example, if searching for a specific Title, the Term or All Text search field would be completed as follows for the various search types:

- single word search title:canceled
- phrase search title:"canceled ticket"
- multiple word search title:canceled OR title:ticket.

1.47 Bulk Item Update

The new ownership details for multiple Items can be added using the Bulk button within the Items list view. This functionality allows Users to add one or more Customers or Organizational Units to multiple Items within one screen. If the Items have mixed ownership before the update, and these details are no longer relevant, the current ownership details need to be adjusted within each individual Item.

If Parent/Child Relationships are configured for the Items, only the Parent Items' ownership details can be updated. The related Child Items will automatically adopt the amended Parent ownership details.

Multiple Items can also be deleted using the Bulk Item button.

To update multiple Items:

1. Go to Configuration > Items

The Items List View is displayed.

2. Check the boxes next to the Items numbers that need to be updated

Ite	ms											
	New	₽ Siearch	ttulk	Export: Current Page 💌 📕	84				Filter.	All Iberns [sys]	• Display: 10	
	item No.	▼ Item Category	🔳 Item Type	Service Level	Customers	Org. Units	Status	Purchased 🔳 Incident Team	Problem Team	E Change Team	🖀 Request Team	
7	srm-tst- nsd000c29485ca	Hardware	Dell Latitude E6430	Warranty	Guruprased 5		Deployed	Device-Incident Team	Problem Analysis Team	Change Management Team	Service Request Team	•
1	srm-tst-nsd-223	Hardware	Dell Latitude E6430	Warranty	Sachin Kumar		Pending Upgrade	Device-Incident Team	Problem Analysa Team	Change Management Team	Service Request Team	
7	srm-tst-nsd-222	Hardware	Dell Latitude E6430	Warranty	Jason Blackett		Deployed	Device-Incident Team	Problem Analysis Team	Change Nanagement Team	Service Request	
V	srm lst-nsd-125	Hardware	Dell Latitude E6430	Warranty	Andy Fair		Deployed	Device-Incident Team	Problem Analysis Team	Change Management Team	Service Request	

3. Click Bulk

The Bulk Update screen is displayed with the Details and Ownership fields available for amending. The only Owners displayed within the Ownership field, are those who are assigned ownership to all Items included in the bulk update.

Bulk Update for 1 Item							
Informat	ion Details						
Details							
Request Team	•						
Incident Team	Default Incident Team 💌						
Problem Team							
Change Team	•						
Status	Available						
Criticality	•						
Warranty							
Expires	03/22/17						
Ownership							
Customers	Find Customer (Last Name)						
Org. Units	My Company Find Org. Unit (Name)						
	Delete Disable Cancel Save						

4. Amend the relevant Details

The options include Team, Status, Criticality, Warranty or Ownership for the Items, as required, or select the Delete option to remove the Items from the Items List.

5. For Items that require Ownership adjustments, click next to the Owner details if the relationship is to be deleted

Ownership		
Customers	Andy Fair	Find Customer (Last Name)
		9

6. Use the Find options for the Customer and Organizational Unit owner information to be added

Click Swithout entering names in the Search Fields to return a complete list of Customers or Org Units.

0	ame)	Find Customer (Last N	Andy Fair	andy Fair
		Find Org. Unit (Name)		i i i i i i i i i i i i i i i i i i i
0 🕄				
à		Org Unit		
		Micro Focus		
	Dept	Micro Focus - Accounts		
	ngg	Micro Focus - Electrical E		
	e	Micro Focus - Head Offic		
	Technology	Micro Focus - Information		
	Results	1 - 5 of 5		

- 7. Click on the relevant new owner link within the Find box to add the owner
- 8. Select Save.

The Details and Ownership information of all Items are updated.

1.48 Request Fulfilment Overview

The goal of Request Fulfilment is to manage the lifecycle of all Service Requests.

A Service Request is a generic term that describes the numerous and varied demands placed on the service and support organization. Many are small changes, which are considered to be low risk, frequently occurring and low cost in nature, such as change a password or install a software application request. Alternatively, it may simply be a Customer asking for information. It is the scale, frequency and low-risk nature of the Service Requests that require that they be handled by the Request Fulfilment process, and not Incident or Change Management.

The frequent recurrence of Service Requests requires a predefined process Workflow be set with the support Technicians, service targets and escalation paths in place. To cater for the diverse nature of Service Requests, at minimum two Workflows should be customized for Request Fulfilment, one to handle simple requests for information and the other to deal with standard changes.

In the system, Service Requests are logged against Service Items in the Service Catalog and follow Workflows that ensure that each Request is handled with consistency. The Workflows define the actions required to correctly implement any changes to the Service and define the responsibilities, authorization and timeframe expected to manage the changes that may result from a Service Request.

Once a Workflow is assigned to a Service Request, it is routed to an appropriate Technician based on Service Request Workflow State. After a Technician completes their assignment, the Request is forwarded to the next User based on the configuration of the next State for a standard change or closed, if it is a simple request for information.

When Service Requests are raised for Service Item breakdowns, the system allows them to be easily associated with an Incident within the Analysis tab of the Request. Or, if the Service Request results in a change to an Item that is not in the Service Catalog, a Change Request can easily be generated within the Service Request.

If a Service Request is related to an Incident, Problem or Change Request and that related request in the other Process is closed, the Service Request is automatically closed. The system views the request hierarchy from low to high as Service Request, Incident, Problem and Change Request, and if a related request of a higher type is closed, all the lesser type requests are automatically closed, or if the handshaking facility is enabled for the system, moved to the Pending-Approval State.

See: Service Catalog.

1.48.1 Implementing Request Fulfillment

To set up the Request Fulfillment Process in the system, the following steps are to be completed:

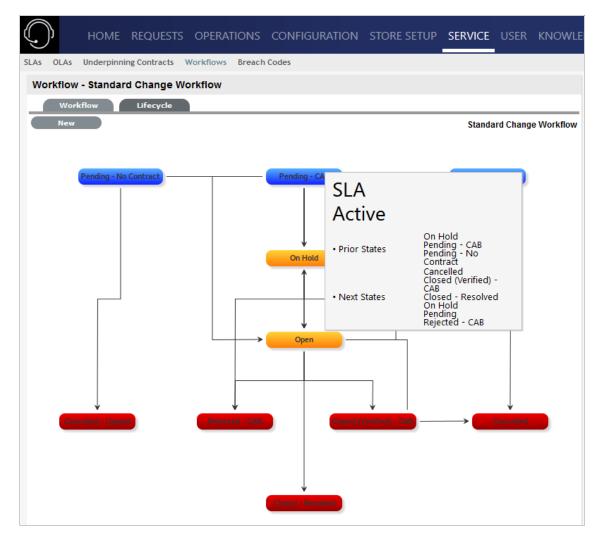
1. Assign the Request Process to the relevant Users within the User Information screen under the User > Users tab. (See: Create a User.)

Ю	ome reques ⁻	TS OPERATION	IS CHANG	ge config	URATION	STORE SETUP	SERVICI	USER	NOWLEDGE
Customers Organi	izational Units Part	tner Organization:	Users Teams	s Assignments					
User Informat	tion								
Informatio	n Schedule	Aliases	Те	am	Skills				
📮 Email	🖳 vCard								
First Name	Tarik								
Last Name	Baki								
Username	tarik@epm.blr.novell.c	com							
Roles	Supervisor Administrator Customer	Technician Manager		rtner Jance					
Default Portal	User Portal	~		ssion the De					
Operations Processes	Request	✓Incident		vithin the Use		ess to the user ion screen.			
Change Processes	Change	Release	Deployment	t					
Internal Processes	Service Level	Configuration	Knowledge						

 Create or review the SLA within the Service>SLAs tab, and associate the Incident Service Request Workflow to the SLA in the SLAs Workflow tab. (NB: The Supervisor User setting up the SLA must be assigned the Internal Process of Service Level in their User Information screen to complete this action.)

О ном	E REQUESTS OPERATIONS CHANGE CONFIGURATION STORE SETUP SERVICE USER
SLAs OLAs Underpir	nning Contracts Workflows Breach Codes
SLA Editor	
Details	Targets Blackouts Workflows
Augilable Markflaura	
Available Workflows	Cancel Save
🖾 Name	Typical Change Workflow
	Store Workflow With Line Manager Approval
	Standard Store Workflow
	Standard Change Workflow
	Service Request Workflow
	Problem Workflow
	Incident Workflow
	Emergency Change Workflow
	Change Deployment Workflow

3. Review the Service Request Workflow within the Service>Workflows tab. (See: Service Request Workflow.)



4. Create a Service Request Team within the User>Teams screen. (See: Service Request Team.)

-	Units Partner Organizations the team options and associate within the information t Service Group	tab	Associate Groups with workflow States in the States tab
Associate the Service	Request in the Service tab	*	
Details		Location	
Team Name		Address	
Process	Change Request	▼ City	Create Technician work Groups and Manager
Team Lead	Service Request Incident Problem	State	Approval Groups within the Group tab
Incoming Email	Change Request	Zip	
Email Display Name	Release Service Portfolio	Country	•
Customer Notification	Email	▼ Phone	
Technician Notification	Email	•	

5. Associate the SLA to an Item or Customer or Org Unit. This final step ties all the elements together when a Service Request is created, as the SLA associated with the Item, Customer or Org Unit assigned to the Request determines the Workflow, Team and Technicians that are made available within the Service Request Information screen.

1.49 Assigning an SLA

Within the system a Service Level Agreement (SLA) can be assigned to a Customer, Organizational Unit, Item or a request. When a request is created, the system checks if any of these elements have an SLA. The business logic applied to assign an SLA to a request is as follows:

- 1. If the Customer has an SLA then assign this to the request
- 2. If the Customer does not have an SLA but the Organizational Unit does, assign this to the request
- 3. If the Customer or Organizational Unit does not have an SLA but the Item does, then assign this to the request
- 4. If none of the above elements have an SLA, the system Default SLA as defined by Admin in Setup>Privileges>Requests tab, is assigned to the request.

When Billing is enabled, the system checks that a maintenance contract is in place during the request creation process and assigns a Status of Pending - No Contract when an SLA contract is nonexistent or expired. To assign an SLA in this situation, the Technician creates a Per Item or Per Request SLA Contract within the Contract tab of the request Information screen. (See: Create a Contract.)

1.49.1 Assigning an SLA to a Customer

To assign an SLA to a Customer when Contracts are disabled:

- 1. Select User>Customers
- 2. Select the required Customer name link

The Customer Information screen opens.

- 3. Move to the Contracts tab
- 4. Click Edit
- 5. In SLA Details, use the drop-down menu to select the SLA for this Customer

SLA Detai	ils
Service Lev	vel
	War
	Silver SLA
	Platin Defau

6. Click Save.

1.49.2 Assigning an SLA to an Organizational Unit

To assign an SLA to an Organizational Unit when Contracts are disabled:

- 1. User>Organizational Units
- 2. Select the required Org Unit Name

The Org Unit Information screen will open.

- 3. Select the Contracts tab
- 4. Click Edit
- 5. In SLA Details, using the drop-down menu, select the SLA for this Customer

Org. Unit Information							
Details	Customers Technicia	ns Departments	Items	Requests	Contracts		
					Micro Focus		
SLA Details							
Service Level		•					
	Warranty Silver			Cancel	Save		
	SLA Platinum Default KBA						

6. Select Save.

1.49.3 Assigning an SLA to an Item

To assign an SLA to an Item when Contracts are disabled:

- 1. Select Configuration>Items
- 2. Select the required Item number hyperlink The Item Information screen will open.
- 3. Select the Costs tab
- 4. Click Edit

5. In SLA Details, using the drop-down menu, select the SLA for this Item

Information	Details	Costs	Requests Relationships	(
Duplicate	😫 Print			ltem # 1	100004 (Serve
Financial			SLA Details		
Cost	0.00		Service Leve 🗸 Warr	ranty	
Monthly Cost	0.00		Bron	IZe	
		(<u>010</u>)	Warranty		
Purchase Date	07/31/10 12:30		Expires	(<mark>0-0</mark>	
Depreciate Over		years	Availability		
Depreciated Value	\$0.00		Avg Repair Time N/A		
Audit Date (mm/dd/yy)		9	Avg Time To Fail N/A		
PO Number					
Inherited Costs					
Inherited Capital					
Inherited Ongoing					
Delegate Costs	OYes ONo				
			Delete	Cancel	Save

6. Select Save.

1.49.4 Assigning an SLA to a Request - Only when Billing is enabled

When a request is created without a valid contract, the system assigns the request a Pending - No Contract Status. The request is locked and cannot be edited by a Technician until a valid Contract is in place. See:Create a Contract.

1.50 Incident Management

The function of the Service Desk is to act as the point of contact between customers of IT services (end users) and the IT service provider (IT department). Its role is to handle all requests for service, including Incidents, and provide an interface for other activities such as Request Fulfillment, Change, Problem and Configuration Management.

An Incident is defined as any event that is not part of the standard operation of a service, and causes, or may cause, an interruption to, or a reduction in the quality of service. The goal of Incident Management is to restore normal service as quickly as possible, with minimal disruption to the business. This ensures that the highest achievable levels of availability and service are maintained.

Incident Management objectives include:

- Incident detection and recording
- Classification of all Incidents and initial support
- Investigation and diagnosis
- Escalation
- Resolution and recovery
- Incident closure
- Incident ownership, monitoring, tracking and communication.

As part of the Incident Management Process, if an Incident is related to a Problem or Change Request and that related request in the other Process is closed, the Incident will be automatically closed. The system views the request hierarchy from low to high as Service Request, Incident, Problem and Change Request, and if a related request of a higher type is closed, all the lesser type requests are automatically closed

1.50.1 Implementing Incident Management

To set up the Incident Management Process in the system, the following steps are to be completed:

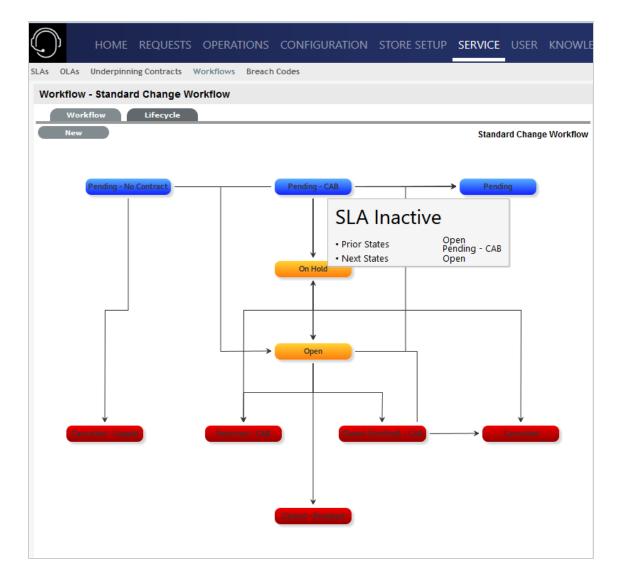
1. Assign the Incident Management Process to the relevant Users within the User Information screen under the User>Users tab. (See:Create a User.)

Ю	ome reques	TS OPERATION	IS CHANG	e configuration	STORE SETUP	SERVICE	USER
Customers Organi	izational Units Par	tner Organizations	Users Teams	Assignments			
User Informat	tion						
Informatio	n Schedule	e Aliases	Tea	m Skills			
🖾 Email	vCard						
First Name	Tarik						
Last Name	Baki						
Username	tarik@epm.blr.novell.	com					
Roles	Supervisor Administrator Customer	Technician Manager	Parti Fina				
Default Portal	User Portal	~					
Operations Processes	Request	✓Incident	Problem	Assign the Incident pr within the User Inform		r	
Change Processes	Change	Release	Deployment				
Internal Processes	Service Level	Configuration	Knowledge				

2. Create or review the SLA within the Service>SLAs tab, and associate the Incident Management Workflow to the SLA in the SLAs Workflow tab. (NB: The Supervisor User setting up the SLA must be assigned the Internal Process of Service Level in their User Information screen to complete this action.)

О ном	ie requests operations	CHANGE	CONFIGURATION	STORE SETUP	SERVICE	USER
SLAs OLAs Underpi	inning Contracts Workflows Breach	n Codes				
SLA Editor						
Details	Targets Blackouts	Workflo	ws			
Available Workflows		× (Cancel Sa	ve		
🖾 Name	Typical Change Workflow Store Workflow With Line Manager Approva	n al s				
	Standard Store Workflow Standard Change Workflow Service Request Workflow Problem Workflow Incident Workflow Emergency Change Workflow Change Deployment Workflow		ociate the incident v A within the workflow			

3. Review the Incident Management Workflow within the Service>Workflows tab. (See: Incident Management Workflow.)



4. Edit the Default Incident Management Team within the User>Teams screen. (See: Incident Management Team.)

m Information	Service Lay	rers		he team options and associate ans within the information screen
Duplicate Details	~	-	Location	Device-Incident Team
Team Name Process	Device-Incident Team Incident	~	Address City	reate escalation layer in the Layers tab
Team Lead	Sankar R	•	State	
Email Display Name			Country	Create default workflow in the Service tab
Customer Notification	Email	•	Phone	
Technician Notification	Email	-		

5. Associate the SLA to an Item or Customer or Org Unit. This final step ties all the elements together when an Incident is created, as the SLA associated with the Item, Customer or Org Unit assigned to the Incident determines the Workflow, Team and Technicians that are made available within the Incident Information screen.

1.51 Problem Management

Problem Management extends the process of Incident Management. An Incident is a non-standard operational event with the potential to harm the quality of an IT service. Incidents are reported by end-Users, encountered by technicians and system/database Administrators, or automatically detected by system management tools. In all instances, Incidents should be reported to the Service Desk.

A Problem describes the underlying cause of one or more Incidents that are being investigated. However, not all Incidents are investigated as Problems. For example, if the power-supply in a desktop computer blew up, it should be treated as an Incident, and the power-supply replaced. (Although if the power-supply is controlled by Change Management, it would need to be treated as a minor change request.) However, if there was a spate of burnt-out power-supplies in the same model desktop, then an underlying Problem with the desktop may possibly exist and further investigation into the cause and potential solutions may be required.

For Incidents to be correctly categorized as a Problem, organizations must define the evaluation criteria. For example, raise a Problem if more than 10 Incidents are logged in the space of three hours that refer to the same Configuration Item.

After the underlying cause of a Problem has been diagnosed, it is referred to as a Known Error. At this point, the root cause of the Problem is known, and the most appropriate course of action is to be determined. This may take the form of a structural resolution by raising a request for change (RFC). Alternatively, it may be decided, after consultation with Users and Customers, to implement a workaround or recovery action.

In the case of the above example:

- Problem: Brand X Desktops no longer operating
- Root Cause: Faulty power-supply in July '09 models
- + Known Error: Warranty replace with new power-supply.

As part of the Problem Management Process, if a Problem is related to a Change Request and that related Change Request is closed, the Problem will be automatically closed. The system views the request hierarchy from low to high as Service Request, Incident, Problem and Change Request, and if a related request of a higher type is closed, all the lesser type requests are automatically closed.

1.51.1 Implementing Problem Management

To set up the Problem Management Process in the system, the following steps are to be completed:

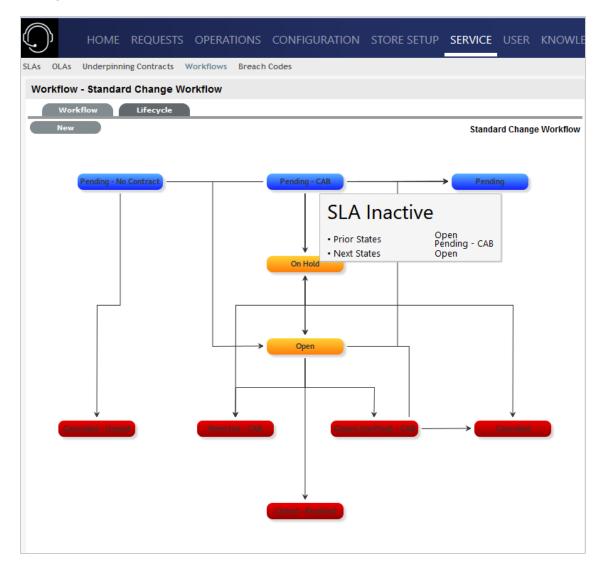
1. Assign the Problem Management Process to the relevant Users within the User Information screen under the User>Users tab. (See:Create a User.)

Ю	ome request	is operation	NS CHANG	e configuration	STORE SETUP	SERVICE	USER
Customers Organi	zational Units Part	ner Organizations	Users Teams	Assignments		-	
User Informat	ion						
Information	n Schedule	Aliases	Tea	m Skills			
🖾 Email	VCard						
First Name	Tarik						
Last Name	Baki						
Username	tarik@epm.blr.novell.c	om					
Roles	Supervisor Administrator Customer	Technician Manager	Part Fina				
Default Portal	User Portal	~					
Operations Processes	Request	✓Incident		Assign the Problem process the User Information scree			
Change Processes	Change	Release	Deployment				
Internal Processes	Service Level	Configuration	Knowledge				

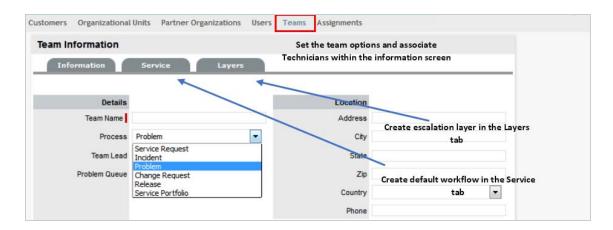
 Create or review the SLA within the Service>SLAs tab, and associate the Problem Management Workflow to the SLA in the SLAs Workflow tab. (NB: The Supervisor User setting up the SLA must be assigned the Internal Process of Service Level in their User Information screen to complete this action.)

J.	E REQUESTS OPERATIONS (CONFIGURATION	STORE SETUP	SERVICE	USER
SLAS OLAS Underpr	nning Contracts Workflows Breach Co	Jues				
SLA Editor						
Details	Targets Blackouts	Workflow	ws			
Available Workflows	~		Cancel Sa	ve		
🛛 Name	Typical Change Workflow Store Workflow With Line Manager Approval Standard Store Workflow	n s				
	Standard Change Workflow					
	Service Request Workflow	Associ	iate Problem Workfl	ow to the		
	Problem Workflow		ithin the workflow t			
	Incident Workflow					
	Emergency Change Workflow Change Deployment Workflow					

3. Review the Problem Management Workflow within the Service>Workflows tab. (See: Problem Management Workflow.)



4. Create a Problem Management Team within the User>Teams screen. (See: Problem Management Team.)



5. Associate the SLA to an Item or Customer or Org Unit. This final step ties all the elements together when a Problem is created, as the SLA associated with the Item, Customer or Org Unit assigned to the Problem determines the Workflow, Team and Technicians that are made available within the Problem Information screen.

1.52 Change Management

The goal of Change Management is to ensure that standardized procedures are used to efficiently handle all changes, and minimize the impact of any related Incidents upon a service. The Change Management process prevents unauthorized CMDB modifications and reduces disruption to Customers. It does this by coordinating the build, test and implementation of any change that impacts the CMDB.

Changes may arise reactively in response to Problems or externally imposed requirements, for example a new or changed regulatory situation. They may also be proactive, instigated by management to improve an organization's efficiency and effectiveness, or to enable or reflect new service improvement initiatives.

The Change Advisory Board (CAB) is responsible for approving any Request for Change (RFC). This involves assessing the impact, resources and priority of the RFC. The CAB then advises the Change Manager of their assessment and assigns an appropriate Workflow.

Change Workflows within the system ensure that each RFC is handled with consistency, based on the risk and impact assessment of the CAB. Change Workflows define the actions required to correctly implement the change, and define the responsibilities, authorization and timescale expected to manage the change.

Once a Workflow is assigned to an RFC, it is routed to an appropriate Technician based on the Change Workflow State. After a Technician completes their assignment, the RFC is forwarded to the next Technician based on the next state of the Change Workflow.

When the RFC has progressed through all of the required Workflow States, a change review is undertaken to verify that the RFC has achieved its objectives. If the change objectives are not met, the RFC's associated back-out procedure is implemented to rollback the change and restore the CMDB to a valid state.

As part of the Change Management Process, all requests related to a Change Request are automatically closed when the related RFC is closed. The system views the request hierarchy from low to high as Service Request, Incident, Problem and Change Request, and if a related request of a higher type is closed, all the lesser type requests are automatically closed.

1.52.1 Implementing Change Management

To set up the Change Management Process in the system, the following steps are to be completed:

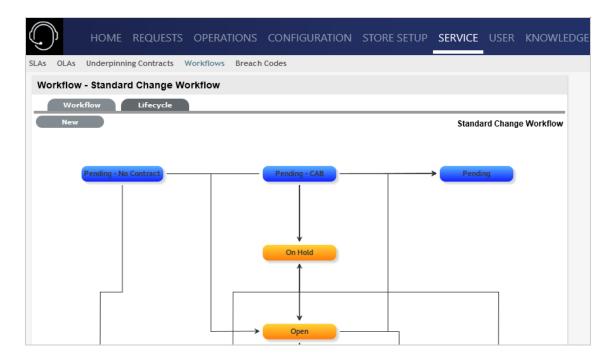
1. Assign the Change Process to the relevant Users within the User Information screen under the User>Users tab. (See:Create a User.)

ustomers Organiz	ational Units Part	ner Organizations	Users Teams Assignments
User Information	on		
Information	Schedule	Aliases	Team Skills Org Unit
😭 Email	Card		Assign the Change Process to the
Title			user within the user Information
First Name Last Name Username		om	screen.
Roles	Administrator Customer	Technicia Manager	
Default Portal	User Portal	•	
Operations Processes	Request	Incident	Problem
Change Processes	Change	Release	☑ Deployment
Internal Processes	Service Level	Configuration	Knowledge

 Create or review the SLA within the Service>SLAs tab, and associate the Incident Service Request Workflow to the SLA in the SLAs Workflow tab. (NB: The Supervisor User setting up the SLA must be assigned the Internal Process of Service Level in their User Information screen to complete this action.)

As OLAs Underpir	nning Contracts Workflows	Breach Codes Contracts Associate of	one or more Change workflow to
SLA Editor		the SLA	within the SLA workflows tab
Details	Targets Blac	outs Workflows	
Available Workflows		Cancel	Save
Name Name	Typical Change Workflow Standard Change Workflow	Description	
Standard Change	Service Request Workflow	Configurable Standard Change M	anagement workflow
	Incident Workflow IWFlow Emergency Change Workflow	- 1 of 1 Results	-

3. Review on or more Change Management Workflows within the Service>Workflows tab. (See: Change Management Workflows.)



4. Create a Change Management Team within the User>Teams screen. (See: Change Management Team.)

n Information	within the information tab		States in the States tab
Information	Service Group	States Lay	ers
sociate change wo Details	rkflow in the Service tab	Location	
Team Name		Address	
Process	Change Request	City Cre	eate Technician work Groups and Manager
Team Lead	Service Request Incident Problem	State	Approval Groups within the Group tab
Incoming Email	Change Request Release	Zip	
Email Display Name	Service Portfolio	Country	•
a second a second second second			

5. Associate the SLA to an Item or Customer or Org Unit. This final step ties all the elements together when a Change Request is created, as the SLA associated with the Item, Customer or Org Unit assigned to the Request determines the Workflow, Team and Technicians that are made available within the Service Request Information screen.

1.53 Release and Deployment Management

The purpose of Release and Deployment Management is to maintain the integrity of an organization's production environment when deploying releases. Effective Release and Deployment processes allow your service organization to deliver change faster and with minimal risk to the business. It provides consistency in implementation approach and assures customers that they can use a new or changed service in line with business requirements.

Part of the Service Transition phase of the Service Lifecycle, Release is responsible for planning, scheduling and controlling changes and updates from Test to Live environments. It ensures the integrity of the Live Environment is protected and that the correct components are released. While Deployment includes the activities or tasks responsible for moving new or changed hardware, software, documentation and process to the Live Environment.

This process is overseen by the Release Manager, whose role is paramount to the success of a release and a required member of a Release Team. The Release Manager directs the process using all information presented to help assess release readiness, and to efficiently identify deployment targets for the deployment phases of a release. This level of control guarantees the Release Manager can deliver updates to the live environment successfully, to all relevant parties, on time.

The capability to leverage relationship maps defined within the embedded CMDB allows the Release Manager to assess the impact of a release, as all related Items can be easily associated with a release package. The extensive use of CIs to represent all aspects of a release and the capability to directly associate any category of CI with the release itself provides a complete picture of how a release will impact the organization before any tasks are undertaken. The Release Manager can identify CI Types impacted by the deployment and CMDB information details users, organizational units and specific infrastructure affected by a release.

Complex and generally a lengthy process, large scale deployments require project management to ensure success. To this end, Release Management includes related activities that require scheduling in and around the internal activities of the service desk. The Release Manager can readily achieve this by exporting release package information to Microsoft Project and administering the full process using a dedicated project management tool.

Exported project files contain all related Change Requests for a Release, providing all relevant parties with an end-to-end schedule of change. The export can also be filtered to include deployment activities that can be merged into the final schedule once the Implementation of all Changes is completed, resulting in a full historical account of the release cycle.

Within the system, the Release Manager creates and manages the Release within the Change>Release tab. Within the Deploy tab of a Release, the Deployment Tasks are generated and made available as groups within the Change>Deployment tab, while the individual activities are available within the Change>Deployment Tasks tab.

To review examples of Release and Deployments, refer to Release Management Applied.

1.54 Release Management Applied

Release Management in the system provides Release and Deployment Managers with a centralized repository for managing the introduction of changes, regardless of size or risk, to the environment. Two examples for rolling out a Release are detailed below, as Releases can potentially be very complex, which requires great flexibility in the system.

The first example illustrates a software rollout, with software being upgraded, replaced and a couple of new installations. Although this Release may be considered a little complicated, the nature of the Release is low risk. Due to the minimal business criticality level of the Release, it has been decided that this deployment will not be controlled by Change Management. The second example that manages the update of Microsoft Exchange, a higher risk Release, controls the Deployment with Change Management.

Before commencing the examples, the system needs to be configured to handle Release Management and the following elements must be in place:

Users assigned the Release & Deployment Process

Create a Release & Deployment Team

Build or Edit the Release Workflow.

1.54.1 Example 1: Install, upgrade and replace Office packages

Release Objective: To rollout the latest update of Office 2008 to customers. Replacing existing software for customers that have Open Office, and installing new software for customers without access to any Office applications.

The example will apply the system default Release Workflow that includes an added Workflow State of Trial Deploy and also has a number of Approval States. It includes Deploy and Trial Deploy States as the Workflow stages for creating the related Deployment Tasks in the system.

The Release Team that will action the Deployment Tasks has also been divided into three Groups: Software, Hardware and all Deployment Technicians.

Team Information				
Information	Service	Group Sta	tes Layers	
				Team SMG1
Groups				
	Name	🛓 Assigned Technicians	Assigned Managers	Group Type 🔳
	Default Group	Craig Wilson		Technician
	Default Manager Group		Mike S	Manager
		1 - 2 of 2 l	Results	
			Cancel New	Save

To create the Release:

1. Go to Change>Releases

- 2. Click New
- 3. Complete the Release information

New Release	
Details	Item Types Analysis Elements Deployments
	New Release
Details	
Name	
Priority	Low
Team	•
Group	
Workflow	
	Description Attachment Impact History
Description	Format 🔹 Font Family 🔹 Font Size 🔹 📾 🍏 🖬 TIML
	$\underline{\mathbf{A}} \star \mathbf{B} \underline{I} \underline{\mathbf{U}} \mathbf{ABC} \mid \Xi \Xi \mathbf{i} \Xi \mathbf{i} \mathbf{i} \in \mathbf{i} \Xi \mathbf{i} \mathbf{i} = \mathbf{i} \Xi \mathbf{i} \mathbf{i} \mathbf{i} = \mathbf{i} \mathbf{i} \mathbf{i} \mathbf{i} \mathbf{i} \mathbf{i} \mathbf{i} \mathbf{i}$
	Path: p Words:0
	Cancel Save

Release Fields	Description
Name	Enter a Name that reflects the objective of the Release.
Priority	Set the Priority, which will correspond to the target timeframes for the SLAs associated with the Release via the RFCs.
Team	Select the Release Team who will oversee all part of the Release.
Workflow	Set the Workflow that includes the relevant stages to manage the Release.
	The Release Manager moves the Release through the stages of the Workflow, relevant to the events being undertaken and completed.
Status	This is set to the Default Entry State of the selected Workflow.

Release Fields	Description
Next Action	Based on the assigned Workflow, select the next Workflow State for the Release, as required by the next Release activity.
	Some States are Approval States, when the Release moves to an Approval State the Approve 🔊 and Reject 🔊 options are visible. The Release Manager selects the appropriate option and the system automatically moves the Release to the pre- configured next State, relative to the option applied.
Manager	From the drop-down list of Managers assigned to the default Entry Point of the assigned Release Workflow, select the Release Manager to manage the project when it is initially created.
	The User defined here, is the Manager who can edit the Release after it is saved and then move it to the next State.
RFC Control	If the Control Deployments via RFC option is enabled in Admin>Setp>Privileges>Requests, this field will be displayed.
	Select Yes if the Deployment is to be routed through Change Management, to enable the scheduling of Deployment Tasks. Select the RFC Workflow to manage the Change Request associated with the Deployment, and set the default open State or Deployment State for the Tasks.
Description	Enter information that describes the goal of the Release.

4. Select Save.

From the above screen snap, we can see that Simone Supervisor is the Release Manager assigned to the Release and that the Release is of low Priority, will be handled by the Release Team and managed using the Release Workflow. The Release is currently in the default entry point of the Release, the Plan State. It should be noted that moving through the Release Workflow is determined by your organization's business processes and the defined Workflow. The system is to be used as a central repository to manage Releases and a point of reference to keep all relevant parties updated regarding a Release.

1.54.2 Assign Item Types

To associate the Items that are to be created or updated as part of the Release, the Release Manager has to define the reason for the Release and assign the relevant Item Type to the Release. This is achieved within the Item Types tab of the Release. For our example, there will be three reasons for the Release:- Upgrade existing software, replacing existing software and installing new software.

As a Release Manager, to assign Item Types to the Release:

- 1. Select the Item Types tab inside the Release information screen
- 2. Click Edit
- 3. Click Add

Detalls	Item Types	Analysis	Elements Deployments
Details			
New Type	0		Find Item Type (Name)
Reason	New	\$	
Media Attachment	(÷ 0	

4. Assign the Reason of Update

For customers with Office 2008, based on the system configuration within the CMDB Item Type of Office 2008, we will just be updating the software version number in the Item Details tab.

Details	Item Types	Analysis	Elements Deployments
Details			
Item Type			Find Item Type (Name)
6	New		l Y
Reasor	/ Update		
Media Attachmen	Replace	. 0	

5. Search and select the Item Type Office 2008 in the Find Item Type field

When the Item Type is associated with the Release, the fields available on the Details Tab of Items using the Type are displayed.

6. Enter the information that is to be updated against the Item in the CMDB and Save For our example 2011 will be entered in the Version # field.

Details	Item Types	A	nalysis	Elements Deployments
Details Item Type	Office 2008			Find Item Type (Name)
Reason	Update	\$)	
Media Attachment	(\$	0	
Fields				
Location				
Environment				Details to be updated on the
Version #	12.0.3] 🔶	Items included in the
License Key				Release
License Count				
License Expiry				
Ownership				
Order #				
Supplier				
Supply Date				

- 7. To replace Open Office with Microsoft Office 2008, click Add
- 8. Select the Reason of Replace

The Find Item Type field is displayed next to the New Type field.

9. Search and Select the Item Type to be replaced within the Item Type field For this example it is Open Office.

Detalls	Item Types	Analysis	Elements Deployments
Details			
Item Type			Find Item Type (Name)
			Open
			Item Type 🛓 Item Category
			OpenOffice Software
			1 - 1 of 1 Results
New Type	0		Find Item Type (Name)
Reason	Replace	*)	
Media Attachment	(÷ 0	
			Cancel Save

- 10. Select the Item Type link for the Item Type to be replaced
- 11. Search and Select the Item Type that is to replace the existing Item Type For this example, Office 2008 is the replacing Item Type.
- Select the Item Type link for the Item Type information to be replaced The fields contained on the Details tab of Items applying the Item Type are automatically displayed.
- Enter information into the fields that are to be updated on the Items in the CMDB For this example, the Version # details is updated to include 12.0.3.

Detalls	Item Types	Analysis	Elements Deployments
Details Item Type	OpenOffice 👉	Item Type to be replaced	
			Find Item Type (Name)
New Type	Office 2008		Find Item Type (Name)
Reason	Replace	+	Replacement
Media Attachment	(÷ 0	Item Type
Fields			
Location			
Environment			
Version #	12.0.3		Information to be updated on the Details tab of the Item, as part of replacement process.
License Key			replacement process.
License Count			
License Expiry			
Ownership			
Order #			
Supplier			
Supply Date			
			Cancel Save

- 14. Click Save
- 15. To create new Items in the system, click Add The Reason of New is assigned by default.
- 16. Search and select the Item Type to be applied to newly created Items in the CMDB For this example, new Items using Office 2008 are being created.
- Assign the Item Type to the Release
 The fields available on the Details tab of Items using the Type are displayed.

Detalls	Item Types	Analysis	Elements Deployments
Details			
New Type	Office 2008 🖨 🦟		Find Item Type (Name)
Reason	New	:	New Items to be created
Media Attachment	6	: 0	using the selected Item Type
Fields			
Location			
Environment			
Version #			Information to be completed on th Details tab of the newly created
License Key			Items
License Count			
License Expiry			
Ownership			
Order #			
Supplier			
Supply Date			

- Enter the information that is to be updated against the Item in the CMDB For our example 12.0.3 will be entered in the Version # field.
- 19. Click Save

Details	Item Types	Analysis Elements	Deployments
Add	Remove		
Details			
Related Item Types	Item Type	≣ Reason ≣ New Type	Media Attachmen
		New Office 2008	
	Office 2008	Update	
	OpenOffice	Replace Office 2008	
		1 - 3 of 3 Results	

20. After all Types have been assigned to the Release, move the Release to the next relevant State.

For this example, the Release moves to Plan Approval and approval is given. The system automatically moves the Release to Build.

Release - Update C	office Software
Details	Item Types
Details	
Name	Update Office Software
Priority	Low
Team	Release Team
Group	Manager Approval Group
Workflow	Release Workflow
Status	Plan Approval
Next Action	<u>A</u> <u>A</u>
Manager	Simone Supervisor

As the Release is not to be managed using Change Management, the Release Manager can move directly to the Deploy tab to create the Deployment Tasks.

1.54.3 Create Deployment Activities

Deployment Tasks, the activities completed by Technicians included in the Release Team Groups, are created in the system by considering the physical location of the Customer or Organizational Unit. That is, when grouping the tasks that are to be completed as part of a Release, the system presents the information based on Customer location so Technicians can be deployed to specific locations to complete jobs.

Tasks can be created on a per Customer Deployment basis for Items that are assigned specifically to Customers. Or, for Items that are shared across Org. Units or by an Org. Unit, the Create option of Deployment per Org. Unit can be used for creating the Deployment. The Global Deployment option allows the Tasks to be created for the whole Organization as the Item being updated, created or replaced is owned/accessed by all Customers in the system.

Once the Customers are assigned to the Deployment, either directly or via an Organizational Unit the Release Manager must define the Group of Technicians within the Release Management Team who will action the Tasks and set the stage of the Release Workflow for the Deployment Tasks to move into an Active State ready to be completed by Technicians.

To create the group of Deployment Tasks:

- 1. Select the Deployments tab inside the Release information screen
- 2. Click New

The screen expands to show the options for the type of deployment to be created, the list of Customers who own an Item associated with the Item Types included in the Release Types tab and the Search Options box.

3. Select the type of Deployment that is to be created

For this example, per Customer Deployments will be created as all Items associated with the Release are owned directly by Customers. The list of Customers can be sorted into Org. Unit groups by clicking the toggle in the Org. Unit Column Header.

	Item Types	Analysis	Elements	Deployments	
Details					
Create	Deployment per Custon	ner 🛊			
Customer	1				Display: 10
	Name Name	<u>≜</u> Country	Email	Phone	Org. Unit
	Amber Wallan	Australia	amber@		My Company - White
	Carla Parsons	Australia	carla@		My Company - Lilac
	Dennis Barry	Australia	dennis@		My Company - Pink
	Jamie Stewart	Australia	jamie@		My Company - Teal
	Lena Benson	Australia	lena@		My Company - White
	Scott Daly	Australia	scott@		My Company - Lilac
			1 - 6 of 6 Results		

4. Assign the Customer(s) to the per Customer Deployment by selecting the field next to the Customer name and clicking

The selection is included in a Selected Customers window to the right of the main window. When all Customers are assigned to the Deployment, the group of Technicians who will action the Tasks and the Workflow State where the Tasks will become active in the system must be defined.

- 5. Click Next
- 6. Select the Group of Technicians who will work on the Deployment Tasks from the Group dropdown list

For this example the Software Technicians will be assigned.

Release - Update Office Sof	ftware	
Details	tem Types Ana	lysis
Deployment		
Group	Software Deploy Group	\$
Deploy Status	Deploy	\$

- 7. Assign the stage of the Workflow where the Deployment Tasks will become active in the system As the Release is related to simply upgrading or installing Office 2008, the Deploy State will be assigned as the action State.
- 8. Select the Items to be included in the Deployment

For this example, as the replacement and upgrade of Items is simple software, all Items will be created as one Deployment that will result in individual Tasks being created.

Detalls	Item	Types	Analysis	Elements	Deployments	
Deployment			2 March			-
Group	So	ftware Deploy	Grout 🕈			
Deploy Status	De	ploy	\$			
Details						
Items	1	90				Display: 10
		Item Number	🛓 Item Type	E Status	Customer	Org.Unit
		100014	OpenOffice	Installed	Carla Parsons	
		100013	OpenOffice	Installed	Scott Daly	
		100012	OpenOffice	Installed	Jamie Stewart	
		100011	Office 2008	Installed	Dennis Barry	
		100010	Office 2008	Installed	Lena Benson	
		100009	Office 2008	Installed	Amber Wallan	

- 9. Click 📷
- 10. Click



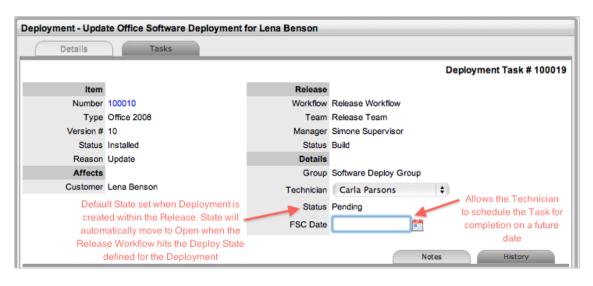
Create

- 11. For the new installations of Office for customers select 🕒 within the Items field
- 12. Tick the relevant Item Type and define if the Item is to be shared or one created for each Customer
- 13. Click

De	talls Item Types	Analysis	Elements	Deployments				
New						Display:	10	3
ld	🛓 Title	E Status	Deploy Status	≣ #Tasks	# Completed	Control RFC		
100005	Update Office Software Deployment for Dennis Barry	Open	Deploy	1	0			
100006	Update Office Software Deployment for Scott Daly	Open	Deploy	1	0			
100007	Update Office Software Deployment for Jamie Stewart	Open	Deploy	1	0			
100008	Update Office Software Deployment for Amber Wallan	Open	Deploy	1	0			

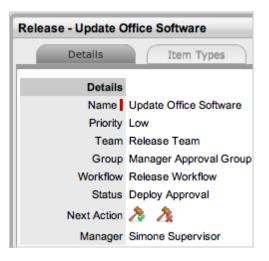
14. Click Done.

All Tasks are now saved with a Status of Pending assigned. When the Release Workflow moves to the Deploy State, the Tasks' Status will automatically by updated to Open, prompting Technicians to complete the Deployment Tasks and move their State to Closed - Resolved. When all Tasks are completed and moved to Closed - Resolved, the Release will be automatically Closed.



1.54.4 Action Deployment Tasks

The Deployment activities created within the Deploy tab of the Release are listed in the Deployments and Deployment Tasks tabs of Change in the system. The Release Manager works the Release through the assigned workflow within the Details tab of the Release. When the Status of the Workflow is set to the Deploy State defined within the Deployment, the Tasks will move from Pending to Open.



For this example, within the Releases>Release#>Details tab the Release Manager has moved the Release through the Workflow States of Plan, Plan Approval, Build, Test and is currently assigned the State of Deploy Approval. Selecting Accept will move the Release to Deploy, and the associated Tasks will automatically move to Open.

Deployment - Update Office Software Deployment for Lena Benson							
Detalls	Tasks						
			Deployment Task # 100019				
ltem		Release					
Number	100010	Workflow	Release Workflow				
Туре	Office 2008	Team	Release Team				
Version #	10	Manager	Simone Supervisor				
Status	Installed	Status	Deploy				
Reason	Update	Details					
Affects		Group	Software Deploy Group				
Customer	Lena Benson	Technician	Carla Parsons 💠				
		Status	Open				
		Next Status	Open 🛟				
		ESC Date					
	Notes History						

Within the Change > Deployment Tasks tab, Technicians can edit Deployment Tasks by adding Notes using the New Note button, which are stored in the Notes tab, or update the Status of the Task to Closed-Resolved. When all Deployment Tasks are completed, the Deployment is automatically closed by the system. When all Deployments are closed for a Release, the Release Manager can close the Release within the Details tab, by moving the Release Workflow Status to the Exit State.

Summary			
Edit	Add Note		Deployment Task # 100019
Item		Release	
Number	100010	Workflow	Release Workflow
Туре	Office 2008	Team	Release Team
Version #	10	Manager	Simone Supervisor
Status	Installed	Status	Deploy
Reason	Update	Details	
Affects		Group	Software Deploy Group
Customer	Lena Benson	Technician	Carla Parsons
		Status	Open
		FSC Date	

Item details in the CMDB are also automatically updated, based on the information included in the Release.

Item Information					
Information	Details Co	sts Requ	lests Relations	hips Outages	AMIE Snapshots
Edit	Duplicate 🛛 🛱 Prin	t		Item # Service	e Desk (Service Desk)
Details			Details		
Business Unit			Date Responsible		
Туре			Date Activated		
Environment			Contact		
		Descript	ion Notes [1]	Attachments [2]	Audit Trail
Description	Description entered here is	displayed in the cust	omer portal.		
					Done

1.54.5 Example 2: Update Microsoft Exchange

Although this is considered a less complex activity as it involves only one Item, due to the business critical nature of Exchange the risk is higher. Therefore, as a Release Manager, it has been decided to manage this Release using Change Control. To manage Deployments using Change Management, ensure the Administrator has enabled the Control Deployments via RFC option in the Setup>Privileges>Requests Tab.

Release Objective: To update Exchange to Microsoft Exchange 2010

The example will apply the system default Release Workflow that includes an added Workflow State of Trial Deploy and also has a number of Approval States. It includes Deploy and Trial Deploy States, as the stages of the Workflow where the related Change Requests (RFCs) are automatically created for the Deployment, and only when the RFCs hit the Deploy State configured for the RFC Control within the Details tab of the Release do the Deployment Tasks become active. The Change Manager can view all Deployment Tasks related to the RFC within the RFC Summary screen, and when all Tasks are moved to Closed-Resolved the Change Manager can close the related RFC.

The Release Team that will action the Deployment Tasks has also been broken down into three groups, Software, Hardware and all Deployment Technicians.

To create a Release with the Deployment Control managed by Change Management:

1. Define the settings within the Details Tab and set the RFC Control option to Yes

2. Click Save

From the above screen snap, we can see that Simone Supervisor is the Release Manager assigned to the Release and that the Release is of low Priority, will be handled by the Release Team and managed using the Release Workflow. The Release is currently in the default entry point of the Release, the Plan State. It should be noted that moving through the Release Workflow is determined by your organization's business processes and the defined Workflow. The system is to be used as a central repository to manage Releases and a point of reference to keep all relevant parties updated regarding a Release.

- 3. Move to the Item Types tab
- 4. Click Edit
- 5. Select Add and set the Reason to Update
- 6. Within the Find Item Type field, search for Exchange
- 7. Click on the Exchange link to add it to the Release
- 8. Upload Media Attachments, if relevant

If an electronic upgrade file is to be used for the upgrade, it can be uploaded within the Media Attachment field. This would then be made available within the Deployment Task associated with the Release.

9. Enter information that is to be updated on the Details tab of the Item being updated

Details	Item Types	Analysis	Elements Deployments
Details			
Item Type	Exchange		Find Item Type (Name)
Reason	Update	\$	
Media Attachment		÷ 🕒	
Fields			
Location			
Environment			
Version #	2010		
License Key			
License Count			
License Expiry			
Ownership			
Order #			
Supplier			
Supply Date			

These will automatically be updated in the CMDB when the Deployment Task moves from Open to Closed-Resolved.

10. Click Save and Save again.

Move to the Analysis Tab.

1.54.6 Associating RFCs with the Release

Within the Analysis tab, the Release Manager can access a list of existing RFCs that are yet to be associated with the Release. To add an existing RFC to the Release, the checkbox is marked next to the Request # link, and the Add button is clicked. The RFC no longer appears in the Analysis tab, and is now visible in the Elements tab, where it can be removed if the association was made in error.

For this example, it is assumed no relevant RFCs exist in the system, so we move to the Deployments tab where the RFC will be created as a result of the Deployment.

To create the Deployment:

- 1. Select the Deployments tab inside the Release information screen
- 2. Click New

The screen expands to show the options for the type of deployment to be created, the list of Customers who own an Item associated with the Item Types included in the Release Types tab and the Search Options box.

3. Select the type of Deployment that is to be created

For this example, a per Org. Unit Deployment will be created as the Item associated with the Release has shared ownership. When selected, the Organizational Unit associated with the Item that uses the Item Type associated with the Release is displayed in the Org. Unit. list.

ay: 10
ountry

4. Assign the Org. Unit by selecting the field next to the Org. Unit name and clicking 📷

The selection is included in a Selected Org. Units window to the right of the main window. The group of Technicians who will action the Tasks and the Workflow State where the RFC will be created to manage the Deployment must be defined.

- 5. Click Next
- 6. Select the Group of Technicians who will work on the Deployment Tasks from the Group dropdown list

For this example the Software Deploy Group of Technicians will be assigned.

Release - Update Office Software					
Details	tem Types Ana	lysis			
Deployment					
Group	Software Deploy Group	\$			
Deploy Status	Deploy	\$			

7. Assign the stage of the Workflow where the RFC will be created for the Deployment

When the Release Workflow moves into the Deploy State, for this example, an RFC will be generated. This RFC will be assigned the Change Deployment Workflow and be assigned to the Change Team. When the RFC is assigned the Status of Deployed the Deployment Task will move from Pending to Open, allowing the Team member from within the Software Deploy Group of the Release Team to action the Deployment Task.

8. Select the Item Type to be upgraded in the Deployment

If an Item Type is not displayed in the list, click 🕥 to search the CMDB.

Release - Update Microsof	t Exchange	
Details	Item Types Analysis Elements	Deployments
Deployment		
Group	Software Deploy Grout \$	
Deploy Status	Trial Deploy	
Details		
Items	*** 0	Display: 10 💠
	🔄 Item Number 🛓 Item Type 🗮 Status	Eustomer Org.Unit
	✓ 100015 Exchange Pendin Upgrad	
	1 - 1 of 1	Results
		Cancel Create

9. Click 📷

The selection is displayed in the Select Items window to the right of the main window. If an incorrect assignment has been made, click.

10. Click Create

D	etails Item Types	Analysis	Elements	Deployments			
Nev	v					Display:	10
ld	<u>≜</u> Title	E Status	E Deploy Status	≣ #Tasks	# Completed	Control RFC	
100016	Update Microsoft Exchange Deployment for My Company	Open	Deploy	1	0		
			1 - 1 of 1 Results				

11. Click Done.

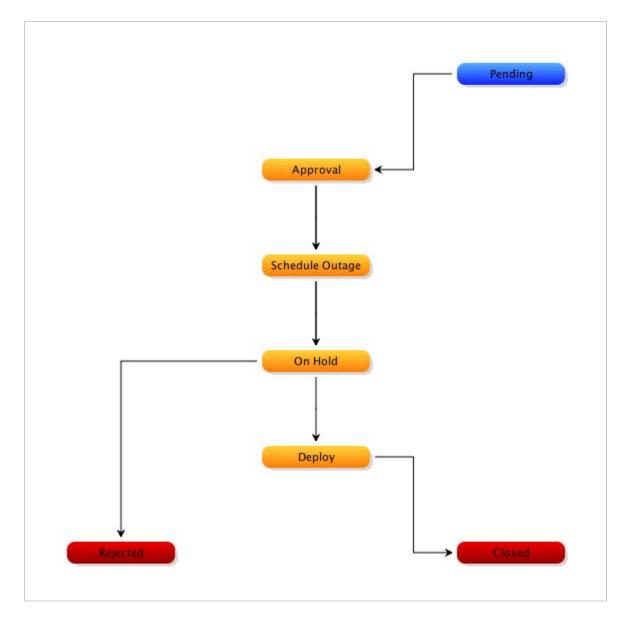
All Tasks are now saved with a Status of Pending assigned. When the Release Workflow moves to the Deploy State an RFC will be created. When the RFC hits the Release's RFC Control Deploy State the Tasks' Status will automatically be updated to Open, prompting Technicians to complete the Deployment Tasks and move the State to Closed-Resolved. When all Tasks are completed and moved to Closed - Resolved, the Release will be automatically Closed.

1.54.7 RFC Creation and Management

The Release Manager moves the Release through the lifecycle of the Workflow as activities are completed. For this example, within the Releases>Release#>Details tab the Release Manager has moved the Release through the Workflow States of Plan, Plan Approval, Build, Test and is currently assigned the State of Deploy Approval. Selecting Accept will move the Release to Deploy, and an RFC will automatically be created.

Change Request Information						
Customer	contract Analysis Summary	Notes Attachmen	ts Impact Audit Trail			
🖹 Add Note 🛛 🛱 P	Print		🔇 Change Request # 100078 🔘			
Details		Notification				
Title			Email Customer			
	Vamsi Krishna 🚯	Customer CCs	Email Technician			
😪 Item Number		Technician CCs				
	Iphone 6	Change Request				
Classification			Change Management Team			
	Moderate		Typical Change Workflow			
	Moderate		Pending - No Contract			
	Medium	Otatus	Cancel			
Assignments						
	On Off					
Escalation Layer						
Technician	Ingo Engels					
Subject	A					
Description	A					
			Cancel Done			

From the above RFC, we can see that the Change Team has been assigned the RFC, and they will move the Request through the Change Deployment Workflow.



This Workflow includes the stages of Pending>Approval>Schedule Outage>On Hold>Deploy>Closed. When the RFC is assigned the Deploy State, the Deployment Tasks created in the Release, and now available in the Change>Deployment Tasks tab, will move automatically move from Pending to Open, and the assigned Technician can action the Task before moving the Deployment Task State to Closed - Resolved.

Summary				
				Deployment Task # 10002
Item		Release		
Number	100015	Workflow	Release Workflow	
Туре	Exchange	Team	Release Team	
Version #	2007	Manager	Simone Supervisor	
Status	Pending Upgrade	Status	Deploy	
Reason	Update	Details		
Affects		Group	Software Deploy Group	
Org. Unit	My Company	Technician	Carla Parsons	\$
		Status	Closed - Resolved	
		Next Status	✓ Open	
		FSC Date	0.0	N CONTRACTOR OF CONTRACTOR

When the Task Status is set to Closed-Resolved, the updated Details contained in the Release will automatically be updated on the relevant Item in the CMDB. The Change Manager can view all Deployment Tasks related to the RFC within the RFC Summary screen, and when all Tasks are moved to Closed-Resolved the Change Manager can close the related RFC. When the Deployment Task is completed, the Deployment within the Change > Deployments tab is automatically closed by the system.

Deployment - Upd	eployment - Update Microsoft Exchange Deployment for My Company					
Details	Tasks					
Name	Update Microsoft Exchange Deployment for My Company					
Release	Update Microsoft Exchange					
Group	Software Deploy Grout					
Deploy Status	Deploy 🗘					
Priority	Medium \$					
Status	Closed - Resolved					
Control RFC	100025					

When the Deployment is closed for a Release, the Release Manager can close the Release within the Details Tab, by moving the Release Workflow Status to the Exit State.

Details	Item Types		Analysis	Elements	Deployments	
Details				Deployment Options		
Name	Update Microsoft Exc	hange		RFC Control	Yes No	
Priority	Medium	\$		RFC Workflow	Change Deployment W	•
Team	Release Team	\$				
Group	All Tech Release Group			Deploy State	Deploy	\$
Workflow	Release Workflow	\$				
Status	Select Status					
March Areka	✓ Closed					
Next Action	4 Closed					
Manager		10	Description	Attackment	Innel	Ulatar
	Simone Supervisor	family	Description Font size	Transfer and Land	Impact	Histor
Manager	Simone Supervisor	family	▼ Font size			Histor
Manager	Simone Supervisor	family ŧΞ	Font size G	- 50 5 ⁴ /2 HTML		Histor

1.55 Release Workflow

Release Workflows define the sequence of States to be followed for Releases logged within the Change>Release tab. By default the system includes one Release Workflow that can be adjusted to suit the service organization's requirements. There is no limit to the number of fully configurable Release Workflows that can be created in the system, so the diverse range of business release implementations required by an organization can be covered by the service and support organization.

1.55.1 Approval States

Approval States in Release Workflows provide the facility for Release Managers that have been assigned to the Approval State, to accept or reject Release activity. If Release Managers are to be assigned to an Approval State, then it is not possible for other User Roles to also be assigned to that State. It should be noted that a Technician, Supervisor or Partner user can also be assigned a Manager Role, which will allow them to be assigned to Manager Only Approval States.

For more information about Manager assignment to Approval States, see:Release Teams.

1.55.2 Editing the Default Workflow

To edit or duplicate the default Release Workflow:

- 1. Select Service>Workflows
- 2. Click the Release Workflow hyperlink to modify the template details or copy the Workflow

Workflow - Release	e Workflow
Workflow	Lifecycle
Duplicate	
Workflow Name	Release Workflow
Process	Release
Default Open Status	Plan 💌
Default Closed Status	Closed
Description	Configurable Release Management workflow
	Cancel Save

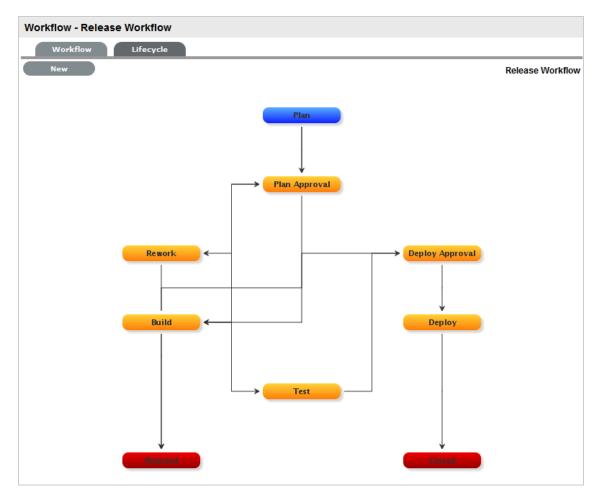
3. Click Edit, to amend or duplicate the Workflow

Fields in the following table are now editable

Field Name	Description
Workflow Name	Enter a relevant name for the Workflow.
Process	Release Management is assigned as the Workflow Process.
Default Open Status	The open State that a Release automatically applies when it is assigned the Workflow.
Default Closed Status	The Exit State that indicates the Release has reached the end of the Workflow Lifecycle.
Description	Defines the purpose of the Workflow.

- 5. Click Duplicate, if the default Workflow is to be copied
- 6. Amend the Release Workflow details as required
- 7. Click Save

8. Select the Lifecycle tab to create or modify Workflow States



1.55.3 Adding or editing Workflow States:

1. Click the State field in the Workflow map or State name hyperlink to display the Status information screen

Or, click New to create a new Workflow State.

Workflow - Release Workflow						
Workflow	Lifecycle	Status				
Status						
Name	New Status					
Active State	• Yes 🔘 No					
Approval State	🔘 Yes 🛛 🔍 No					
Deployment State	🔘 Yes 🛛 🔍 No					
Entry Point						
Exit Point						
Has Notes						
Previous States						
	Available states			Selected states		
	Build Deploy Deploy Approval Plan Plan Approval Rework		0	None selected		
Next States						
	Available states			Selected states		
	Build Closed Deploy Deploy Approval Plan Approval Rejected		0	None selected		
				Cancel Save		

Status	
Name	System Default States can be re-named if desired. For newly created States, enter a name.
Active State	Assign Yes for requests to be available in the Home tab by default, when assigned to this stage of the Workflow.
	Yes should be used for States where the User is actively working on the request or waiting for updates." No" generally applies to Workflow exit points and will only be available by default within the Release tab list view.
Approval State	Sets the Status as an Approval State. This allows a Release Manager to be assigned to this State and enables them to approve or reject Release Activity when it moves into this stage of the Workflow.
	NOTE: An Entry/Exit status cannot be an Approval State.

Status	
Deployment State	If enabled for a State, when a Release is assigned this State the Deployment Tasks associated with the Release can be actioned by the Technician Users.
Entry Point	An Entry Point is used to indicate the start of a Lifecycle. To make the State a Workflow Entry Point, select the Entry Point checkbox.
	As the Entry Point is the first State, the Previous States field will be removed.
Exit Point	Select if the State will be an Exit Point. An Entry Point is used to indicate the end of a Lifecycle.
	NOTE: A Workflow can have only one Entry Point but multiple Exit Points.
Has Notes	Allows the Supervisor to include instructions or add relevant details to the Workflow that is made available when the Release moves into the State. The information is configured within the Notes tab that is displayed when this option is enabled.
	Information and attachments included on the Notes tab, are displayed as a scroll-over when the Release moves into the State.
Listener Class	This field is visible if the Outbound Webservices option is enabled in the Admin>Setup>Privileges>System tab.
	Complete this field, if assigning this State to a request is to trigger an event in an external system.
	This field should contain the name of a Java class that implements the interface com.livetime.ws.listenWorkflowListener that has been compiled into a jar file and added to the LiveTime classpath. Please contact support for further details.
Previous States	If the State is not an Entry Point, Previous States can be assigned to the Workflow stage. Highlight the relevant State and use the arrow button to move Available States to the Previous States field. These options designate the Workflow stages a Release can come from, before it arrives in this Workflow State.
Next States	If the State is not an Exit Point, Next States can be assigned to the Workflow state. Use the arrow button to select the Next States from the Available States. These options are included in the Next Action drop-down menu of a Request.

Status	
Accept State	(Visible when the Approval State option is Yes.)
	Displays the States that a Request can move to when a Release action is Accepted. Select the appropriate State, for the system to automatically route the Release when the Accept option is selected.
Approval	(Visible when the Approval State or KBA Approval option is Yes.)
	Displays the States that a Request can move to when a Request action is Accepted. Select the appropriate State, for the system to automatically route the Request when the Accept option is selected.
	 Team Manager, select if a single Manager User assigned to the Team is to process the Request.
	 Team Managers# if selected, set the number of Managers that are required to Approve the Request before the system will automatically apply the defined Accept or Reject State.
	 Team Managers% if selected, set the percentage weighting that must be achieved by Managers voting before the system will automatically apply the defined Accept or Reject State. When selected, define the percentage weighting.
Reject State	(Visible when the Approval State option is Yes.)
	Displays the States that a Release can move to when a Release activity is Rejected. Select the appropriate State, for the system to automatically route the Release when the Reject option is selected.

- 2. Configure the State details, as required
- 3. Save the updated State details

NOTE: It is recommended that all States that are to be included in the Workflow be added or renamed now

After all States have been entered in the system, the mapping of the Workflow can be more easily achieved.

- 4. Continue to edit, add or delete States until all relevant States exist for the Workflow
- 5. To create the Workflow Lifecycle, States need to be assigned to the transitional states of Previous and/or Next

To move Available States to the Previous State or Next State field, open the Status Details screen by clicking the State object in the Workflow map or select the State hyperlink in the table beneath the Workflow map.

6. Assign States to be Next and/or Previous States

For the Current Status highlight an option in the Available State list and click the right-pointing arrow to move it to the Selected States field.

NOTE: When a State is used as a Previous and a Next State, it allows a request to move forward and backward in a Lifecycle

An Open State cannot have any previous States and a Closed State cannot have any Next States.

- 7. Click Save to return to the Workflow map and to access other States to build on the Workflow lifecycle.
- 8. Repeat Steps 12 to 14 until all transitional stages of the Workflow have been mapped.

NOTE: To successfully save a Workflow, the sum Resolution Time of the individual Contract Types assigned to each transitional state of the Workflow Lifecycle, must be less than or equal to the Workflow's SLA Resolution Time

9. Click Save.

The visual representation of the Workflow is displayed.

1.55.4 Workflow Map

The Workflow Map is a visual representation of the Workflow Lifecycle. The map displays the relationship between each Lifecycle State by using different colors to represent the type of Lifecycle State.

Color	
Blue	Indicates the Entry point of the Lifecycle.
Orange	Is a Transitional stage of the Lifecycle.
Red	Indicates the Exit point of the Lifecycle.

Detailed information about a Lifecycle State can be accessed by clicking on the State field within the Map.

1.55.5 Deleting the default Release Workflow

To delete the default Release Workflow:

1. Select Service>Workflow

The Workflows screen appears.

- 2. Select the checkbox to the left of the Release Workflow
- 3. Click Delete

The checked Workflow is no longer visible.

NOTE: A Workflow that belongs to a Team cannot be deleted.

1.55.6 Deleting a Workflow State

It may be necessary to delete a system default State or a State that is no longer in use. Note that a State cannot be deleted if it has been assigned to a Release.

NOTE: It is recommended that any States listed in the table of States included on the Life Cycle tab that are not included in the Workflow or used by the system, be removed from the table as all States included here are listed in the States tab when Workflow Manager assignment is being configured. By removing unused States from the table, assigning Technicians to the relevant stages of the Workflow becomes an easier task.

To delete an unused State:

- 1. Select Service>Workflows
- 2. Click on the Workflow hyperlink
- 3. Move to the Lifecycle tab
- 4. Select the State name link in the table of States included in the Lifecycle tab
- 5. Click Delete
- 6. Click Done.

1.56 Basic Procedures

All sections throughout the application use a uniform system for creating, editing and deleting elements. Whether you are working with requests, Customers, Items or Item Types, the procedure for creating, editing or deleting existing elements is the same.

1.56.1 Mandatory Fields

When entering details relating to any element throughout the system, required information is marked with a *I*.

Customer Information					
Contact	Aliases	Items			
Access					
Title		-			
First Name	Mandatory field				
Last Name					
Username					

I Denotes Mandatory fields

1.56.2 Creating an Element

To create an element:

1. Navigate to the appropriate section

For example, if you want to create a Customer, navigate to the User>Customers section.

- 2. Click New in the upper left-hand corner of the list of Customers This will open a new Customer window.
- 3. Fill in the appropriate details
- 4. Click Save

The new Customer now exists in the system and will appear in the list of Customers.

1.56.3 Editing an Element

To edit an element:

- 1. Navigate to the appropriate section
- 2. Click the Entry link in the list

For instance, to edit a Customer, navigate to the User>Customers section and click on the Customer name hyperlink. This will open up the Customer's details screen.

Cu	stomers							
	New	♀ Search Bulk	Export: Current Page	°,	Filter:	All Customers [sys]	Display: 100	•
	Customer Name	Email Address	Phone	Org. Unit	E Country	■ Roles	Web Access	
	Michael Angelo	michael@nsd.com		Micro Focus - Head Office		Customer	Enabled	^
	Jason Blackett	jason@nsd.com		Micro Focus - Information Technology		Customer	Enabled	

- 3. Click Edit in the upper-left corner of the window to enter Edit mode
- 4. Update the necessary information
- 5. Click Save

The changes will now take effect and the User will be returned to the list.

1.56.4 Deleting an Entry

To delete an entry:

1. Navigate to the appropriate section

NOTE: Technicians do not have the ability to delete requests or Customers

1. Click the link in the list corresponding to the entry to be deleted

For instance, to delete a Customer, navigate to the User>Customers section and click on the Customer you want to delete. The Information screen opens.

Customer Information					
Contact	Aliases Items Requ	uests Contra	cts		
Edit	🛱 Email 🛛 🕅 vCard				Michael Angelo
ccess		Roles			
Title		Current	Administrator	Supervisor	
First Name	Michael		Manager	Technician	
Last Name			Finance	Partner	
	michael@epm.blr.novell.com		Customer		
Web access		Default Portal	Customer Portal		
Contact		Details			
	michael@nsd.com	Notes			
Line Manager	Micko Focus - Head Office				
Address 1					
Address 2	Λ				
City	Click to open screen in				
Zip	E dit manda				
Country					
Email Locale	English				
Phone					
Fax					
Pager					
Mobile (Required for SMS)					
(Required for SMS)					
	epm.blr.novell.com				
	7fc170bd8085a248b6db479f536c0ab4				
Partner					
Customer of					
Locale					
Time zone	(GMT +5:30) New Delhi				
Last Login					
					Done

- 2. Click Edit in the upper-left corner of the window to enter Edit mode
- 3. Click Delete at the bottom of the section.

The entry is now deleted and the User will be returned to the list.

1.56.5 Exporting to PDF and Excel

Most lists within the system can be exported to PDF and/or Excel. This functionality is available wherever the PDF and/or Excel buttons are visible.

NOTE: To customize the view of an Excel export, create a list view with the preferred columns, use the view and select the Excel button. See List Views for more information on customizing a list.

1.56.6 Formatting Print Views

Enable the print background setting on your web browser for better formatted and more Userfriendly hard copies of request summary screens print views. Using Internet Explorer this setting is found in: Tools>Internet Options>Advanced>Printing>Print background colors and images.

1.57 List Views

Application List Views are pre-sorted by ID #, and default to display ten Incidents per batch. A List can be re-sorted by clicking on a column header, and the number of elements displayed per batch can be changed using the Display pop-up option.

List Views allow Users to customize the list displayed for each screen within the application. When a List View is created, the screen editor will display only the relevant columns for the module being customized. For example, when creating an Item List View, the available columns will include only Item information.

The system includes at least one default List View for each screen within the application. These Views cannot be edited, however additional Views can be created.

To access details regarding the List View field options throughout the application, refer to:

- Home, Operations and Change tab
- Configuration tab
- Users tab
- Knowledge tab.

1.57.1 Create a List View:

As an example we will create a List View for the Incident screen.

1. Select Operations>Incident

The Incidents screen appears

- 2. Select @ available on the far right of the screen
- 3. Click New

Views Editor		
Name		
Shared	No OBy Role	O By Team
Column 1	Request #	•
Column 2	Not Included	
Column 3	Not Included	•
Column 4	Not Included	
Column 5	Not Included	
Column 6	Not Included	
Column 7	Not Included	
Column 8	Not Included	•
Column 9	Not Included	•
Column 10	Not Included	•
Column 11	Not Included	
Column 12	Not Included	
Column 13	Not Included	•
Column 14	Not Included	•
Column 15	Not Included	•
	c	ancel Save

4. Enter the View Name and specify if the View is to be shared by other Users or between Team members

Shared Views allow other Users to apply the List View to their screen but does not permit them to edit it.

5. Select at least 8 columns

This only applies to the request list screens, all other screens require at least 6 columns.

6. Click Save.

NOTE: Create a List View that includes New Tasks and New Notes to use as the default request screen in order to have a visual cue when new Notes and requests are created.

Lis	t Views						
	New Duplicate		Done				
⊠	View Name	Columns	Owner	Shared	Default	Use View	≣
	System Incident View	12	System User	R		System Incident View	
	Service Delivery View	12	System User	<u> </u>		Service Delivery View	
			1 - 2 of 2 Results				

1.57.2 Selecting a List View as the Default View

To use the same List View each time a screen is displayed, select the List View to be the default view. To do this:

- 1. Select , displayed on the far right of the screen
- 2. Click the 📕 button in the Default column
- 3. The icon will then change to a 👤, indicating that it has become the default
- Select Done to view this List.
 From this point, this will be the default List View for the selected screen.

1.57.3 Displaying a Different List View

To use a different List View:

- 1. Select , displayed on the far right of the screen
- 2. Select the link in the Use View column.

1.57.4 Editing a List View Column

To edit a List View, and change the columns:

- 1. Select , displayed on the far right of the screen
- 2. Select the link in the View Name column
- 3. Make the required changes
- 4. Click Save.

1.57.5 Duplicating a List View

To fast-track the creation of similar List Views, a List View can be duplicated. To duplicate a List View:

- 1. Select, available on the far right of the screen
- 2. Click the checkbox beside the View Name to duplicate
- 3. Click the Duplicate button

The List View Editor appears with the columns of the original List View.

- 4. Complete the List View name
- 5. Modify the columns as required
- 6. Click Save.

To access details regarding the List View information options throughout the application, refer to:

- Home, Operations and Change tab
- Configuration tab
- User tab
- Knowledge tab.

1.58 List View Options for all Request Types

The List View options are derived from the database fields and can be customized by selecting within the My Tasks Home tab, Service Request, Incident or Problems screens within the Operations tab and the Change tab list view.

The options within the Home, Operations and Change tabs are detailed in the following table:

	Description
# Attachments	Displays the total number of Attachments assigned to the request.
# Notes	Displays the total number of Notes assigned to the request.
% SLA Remaining	Displays the percentage of time available before the SLA expires.
Classification	Shows the Classification assigned to the request.
Client Room	Displays the Room where the Customer can be located.
Close Date	Specifies when the request was moved first moved into an Exit State of the Workflow.
Created	The date when the request was first logged with the system.
Customer	The name of the person for whom the request was logged in the system.
Customer Item	The identification number of the Configuration Item associated with the Customer. (This is especially relevant when Item Shadowing is enabled for the Customer Portal and a request is logged against an Item that is different to the Customer's Item.)
Customer Item Type	The Item Type associated with the Customer Item.
Customer Solution	Shows the Customer Note when they use the Close option on the Customer Portal.

	Description
Description	Displays the initial information logged for the Customer's request.
Due Date	Typically based in the SLA and Priority assigned to the request, but in some cases may be manually overwritten.
Escalation	is visible when the Escalation option is On for the request.
Group	Displays the Group identification number, if the request is assigned to a request group.
IP	Shows the ITIL process that the request belongs to:
	🖳 Incident Management;
	Problem Management;
	Change Management;
	Request Fulfillment
Identifier	Shows the Identifier field information of the Item assigned to the request.
Impact	Shows the Impact associated with the request. This is usually derived from the Criticality of the Item, but can be adjusted manually on a request.
Item	Shows the identifying number of the Item assigned to the request.
Item Category	Shows the Category name of the Item assigned to the request.
Item Criticality	States the Criticality of the Item as defined in the CMDB.
Item Room	Displays the Room details to which the Item is assigned.
Item Status	Displays the stage of the Item Lifecycle that the Item is assigned.
Item Type	Shows the Type name of the Item assigned to the request.
Last Action	Details the date that action was last recorded against the request.
Layer	Details the Escalation Layer/level or work group assigned to the request.
Logged Time (mins)	Shows the total time recorded against the request.

	Description
Logged by	Shows the name of the person logged the request with the system.
New Note	is visible when a new Note is added to a request and has not been opened by the assigned Technician.
New Task	is displayed when a new request is added to the List View.
Number of Affected Users	Displays the number of Customers associated with the Item assigned to the request.
Open Date	Details the date the request was first logged in the system.
Open Time	Details the time the request was first logged in the system.
Org. Unit	The name of the Organizational Unit to which the Customer is assigned.
Priority	Shows the Priority setting for the request.
Request#	The identifying number for the request.
Restore Date	Shows the date the request was moved into a Workflow State where the SLA Restoration option is set to Yes.
SLA	Displays the Service Level Agreement assigned to the request.
Source	Displays if the request was created via Email, Portal, Widget, Phone (Technician) or Web Service.
Status	Shows the stage of the request Workflow that the request is assigned.
Subject	Shows content entered in the Subject field of a request. Usually derived for the Subject line of requests created via email, if not populated manually.
Team	Shows the Team assigned to the request.
Technician	Displays the name of the Technicians assigned to the request.
Urgency	Shows the Urgency associated with the request.
Warning Sent	Is visible if an SLA Warning has been sent to the Technician assigned to the request.
Workflow	Details the Workflow assigned to the request.

If Custom Fields have been enabled for a Request Type in Admin>Setup>Custom Fields, they will also be available in the Views Editor drop-down list options.

1.59 List View Options: Configuration Tab

The List View displays the default columns, if required, click 🔯 and add or remove the columns.

Ensure that a minimum of 2 and maximum 15 columns can be selected.

NOTE: If you are adding or removing any columns, then the header filter will be cleared.

The options within the Configuration Tab are outlined in the following table.

	Description						
# Users	Displays the number of Users assigned to the Item.						
% SLA Uptime	Displays the percentage uptime expectation of the SLA assigned to the Item.						
% Uptime	Shows the actual uptime of the Item, based on the time the Item is associated with Active Lifecycle States.						
Avg Repair Time	Entries displayed here are automatically calculated based on the average length of time an Item is offline.						
Avg Time to Fail	Figures displayed here are automatically calculated based on the average time between an Item being offline.						
Change Team	Shows the Change Team assigned to the Item.						
Child R'Ships	Displays the number of Child Relationships associated with the Item.						
Contract	Displays the Contract Number associated with the Item.						
Contract End Date	Displays the date a Service Contract period ended.						
Contract Expiry	Shows the date that a Service Contract is due to expire.						
Cost	Displays the value entered in the Costs field.						
Criticality	States the Criticality of the Item as defined in the CMDB.						
Current Month Costs	Uses the Charges figure within the Service Item Costs tab, multiplied by the number of Users and days of month passed, to calculate the month to date cost figure.						
Current Month Revenue	Uses the Revenues figure within the Service Item Costs tab, multiplied by the number of Users and days of month passed, to calculate the month to date revenue figure.						
Customers	Lists Customers assigned to the Item.						

	Description						
Deleted Date	Shows the date the Item was deleted from the CMDB.						
Depreciated Value	Displays the figure entered in the Depreciated Valu						
Identifier	Shows the Identifier field information of the Item assigned to the request.						
Incident Team	Shows the Incident Team assigned to the Item.						
Item Category	Shows the Category associated with the Item.						
Item No.	Displays the identifying number for the Item.						
Item Type	Shows the Item Type associated with the Item.						
Manufacturer	Displays the Manufacturer name.						
Open Requests	Shows the number of requests assigned an Active Status, associated with the Item.						
Org. Units	Lists the Org. Units associated to the Item.						
Parent R'Ships	Displays the number of Parent Relationships associated with the Item.						
Previous Month Costs	A reference figure for an average monthly cost, based on the previous months costs for the Service Item.						
Previous Month Revenue	A reference figure for an average monthly revenues, based on the previous months revenue for the Service Item.						
Problem Team	Shows the Problem Team assigned to the Item.						
Purchased	Displays the date entered in the Purchased field.						
Request Team	Shows the Service Request Team assigned to the Item.						
Room	Displays the Room associated with the Item.						
Service Components	For Service Items, the Item Number and Type is displayed for other Service Items related as Children for this Item.						
Service Level	Shows the Service Level Agreement assigned to the Item.						
Status	Displays the stage of the Item Lifecycle that the Item is assigned.						

1.60 List View Options: Users Tab

The List View options are derived from the database fields and can be customized by selecting swithin the Customers, Organizational Units, Partner Organizations and Users tab.

The options within the Users Tab are outlined in the following tables:

1.60.1 Customers List View options:

Customers	Description Displays the Contract Number associated with the Customer.					
Contract #						
Country	Shows the Country assigned to the Customer's account.					
Custom 1 to 5	Shows the Custom Fields that have been configured in the Admin>Setup>Custom Fields tab for Customer Information.					
Customer Name	Displays the Customer's name.					
Date Added	Displays the date the Customer account was first created.					
Email Address	Shows the Customer's email address as a link that can be clicked to open a New Message email window.					
Email Locale	Displays the language file associated with the Customer for automated system correspondence.					
FAX	Includes the Customer's facsimile number.					
Last Login	States the time and date when the Customer last logged into the system.					
Last Logout	States the time and date when the Customer last logged out of the system.					
Ldap Source	When multiple LDAP servers are synchronized with the system, this will display the LDAP details from where the Customer information is sourced.					
Line Manager	Shows the name of Manager User associated with the Customer, which maybe relevant when seeking approvals for Service or Change Requests.					
Local Time	Displays the local time for the Customer.					
Mobile	Includes the Customer's mobile number.					
Notes	Displays information recorded in the Notes field of the Customer Information screen.					
Open Requests	Shows the number of requests assigned an Active Status, logged by the Customer.					
Org. Unit	Displays the Organizational Unit assigned to the Customer.					
Owned Items	Lists the Item's assigned to the Customer by showing the Item Numbers.					
Pager	Includes the Customer's pager details.					

Customers	Description					
Phone	Includes the Customer's telephone number.					
Roles	Lists the Roles the Customer has been assigned within the system					
Room	Displays the Room assigned to the Customer.					
User Name	Displays the User Name access credentials for the Customer's account.					
Web Access	Shows the Customer setting for the Web Access option.					

1.60.2 Organizational Units and Partner Organizations List View options:

Org. Units	Description					
# Customers	Shows the number of Customers associated with the Org. Unit.					
City	Shows the City details for the Org. Unit.					
Contract #	Displays the Contract Number associated with the Org. Unit.					
Country	Shows the contact telephone number for the Org. Unit.					
Custom 1 to 5	Shows the Custom Fields that have been configured in the Admin>Setup>Custom Fields tab for Org. Unit Information.					
Name	Details the Organizational Unit's name.					
Org Unit Email	Shows the Org Unit's email address as a link that can be clicked to open a New Message email window.					
Phone	Shows the contact telephone number for the Org. Unit.					
Primary Contact	Shows the name of the Customer who has been assigned as the point of contact for the Organizational Unit.					
Primary Contact Email	Shows the Primary Contact's email address as a link that can be clicked to open a New Message email window.					
Service Level	Displays the Service Level Agreement assigned to the Org. Unit.					
State	Displays the State information for the Org. Unit.					

Org. Units	Description
Website	Displays the Org. Unit's Website details.
Zip	Shows the contact telephone number for the Org. Unit.

1.60.3 Users List View options:

Users	Description
Active Requests	Shows the number of requests assigned an Active Status, allocated to the User.
Available	Includes a visual icon to easily identify if the User is available within the system for request allocation:
	The User is not on leave and is available for request assignment based on their assigned work hours.
	The User is not on leave but is not available for request assignment based on their assigned work hours.
	Y: The User has the On Vacation option enabled.
Classifications	Lists any Item Classifications that have been assigned to the User within the Skills tab.
Custom 1 to 5	Shows the Custom Fields that have been configured in the Admin>Setup>Custom Fields tab for User Information.
Date Added	Displays the date the Customer account was first created.
Default Items	Lists any Items that have been assigned to the User within the Skills tab.
Default Portal	For Users assigned multiple Roles within the system, this field will display which Portal the User accesses by default when they log into the system.
Email Address	Shows the User's email address as a link that can be clicked to open a New Message email window.
FAX	Includes the User's facsimile number.
Last Login	States the time and date when the User last logged into the system.
Last Logout	States the time and date when the User last logged out of the system.

Users	Description					
Ldap Source	When multiple LDAP servers are synchronized with the system, this will display the LDAP details from where the User information is sourced.					
Line Manager	Shows the name of Manager User associated with the User, which maybe relevant when seeking approvals for Service or Change Requests.					
Mobile	Includes the User's mobile number.					
Name	Shows the User's name.					
Pager	Includes the User's pager details.					
Phone	Shows the contact telephone number for the User.					
Processes	Lists the ITIL Processes the User has access to within the system.					
Roles	List the Roles the User has been assigned within the system.					
Supervisor	Shows the assigned Supervisor for Users assigned a Technician or Partner Role.					
Teams	Lists the service Teams the User has been assigned to.					
Username	Displays the User Name access credentials for the User's account.					

1.61 List View Options: Knowledge Tab

The List View options are derived from the database fields and can be customized by selecting swithin the Knowledge Tab.

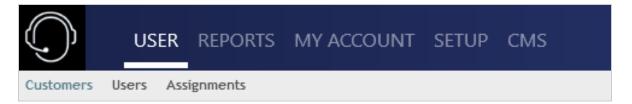
The options within the Knowledge Tab are outlined in the following table:

	Description
Age	Based on when the content was created, shows the age of the Article or FAQ.
Article No.	The identifying number for the Article or FAQ.
Classification	Shows the Item Classification assigned to the Article or FAQ.
Created	Displays the date when the Article or FAQ was created.
Custom 1 to 5	Shows the Custom Fields that have been configured in the Admin>Setup>Custom Fields tab for Customer Information.
Item Type	Shows the Item Type assigned to the Article or FAQ.
Last Updated	Displays when the Article or FAQ was last updated.

	Description
Mean Rating	Displays the mean score rating for helpfulness of the Article or FAQ.
Owner	The User who created the Article or FAQ.
Status	Details the stage of publication the Article or FAQ is assigned (i.e., In Development, Pending Publication, Published or Archived.)
Summary	Shows the information recorded in the Summary field of the Article, or the Question field of an FAQ.
Title	Displays the Article Title.
Туре	Shows the Item Type assigned to the Article or FAQ.
View Date	Displays when the Article or FAQ was last viewed.
Views	Details the number of times the Article or FAQ has been viewed by a Customer.
Visibility	Shows who can access the Article or FAQ in the Knowledge Base.
Votes	Shows the total number of votes recorded against an Article or FAQ.

If Custom Fields have been enabled for a Articles in Admin>Setup>Custom Fields, they will also be available in the Views Editor drop-down list options.

1.62 Administrator View



Users with the Administrator Role can configure the customized settings within the application, enable or disable privileges and control the synchronization with third party tools.

The Administrator view has five tabs:

- User Allows the User to create accounts for Users and Customers, and also define User assignment templates for adding Users to multiple Teams and Escalation layers within the User Information screen
- Reports Provides the Administrator with real time System and Login reports. System logs can also be downloaded in the screen
- My Account The Administrator can view and configure their account details or create Alerts

- Setup Allows the Administrator to define how Customers and Users can interact with the system, customize the application and synchronize it with third party tools
- Request Provides configuration access to Relationship Types, Warranty Durations and the Incident Analyzer, for Problem Management.

If an Administrator is assigned other User Roles within the system, they can access the Admin Portal when logged in using the different Role, by selecting the Setup link within the sub-menu bar of the User login screen or the Customer Portal Menu options.

1.63 User

 ① Home
 ⊕ Operations
 [2] Change
 ፰ Configuration
 ③ Service
 ① User
 圓 Knowledge
 ☐ Reports
 ☑ Finance

 Customers
 Organizational Units
 Partner Organizations
 User
 Image: Customers
 Image: Custome

The User tab is used to create, modify and view accounts for:

- Customers
- Organizational Units
- Users
- Teams.

Users within the service management system can have one of the following Roles:

- Technician
- Supervisor
- Partner.

and one or more of:

- Administrator
- Finance
- Manager
- Customer.

If a User is assigned multiple Roles, the User Roles of Supervisor or Technician, Finance and Manager are consolidated within one User view. Therefore, if a User is assigned Finance, Manager and Supervisor/Technician access, they can view all functionality related to these Roles within the User view. If the User is also assigned Admin and Customer access, next to their login name, the options of Setup and Customer will be displayed. See Changing Roles.

The Supervisor can create User accounts within the User >Users tab.

The system Administrator can synchronize the system with a Directory Server to import Customer and User details. Imported Users can only be modified through the appropriate server console, not via the application. For further details about this topic refer to the Authorization section within the Administrator Guide.

Alternatively, the Administrator can also import Customers via a .CSV file.

1.64 Delegate

A specific technician can act as a delegate for a defined set of end users so that they can assist customers regardless of team or technicians the request is assigned. Delegates have access to their customer requests in the user portal throughout the request's life cycle. A delegate can also approve request on behalf of customers.

Delegates can be assigned to Org. Units or Customers. Delegate assignments can be managed from following places:

- Organizational Units
- Customers
- User

Once the user is assigned as a Delegate, additional filters for My Delegate Tasks will be available in the Requests list page.

If you are assigned as a delegate, an alert message will be displayed.

HOME REQUESTS OPERATIONS CHANGE CONFIGURATION STORE SETUP SERVICE USER KNOWLEDGE REPORTS FINANCE 🗹

The Requests tab provides Enhanced request listing with modern look and feel, with added features and advance Search and Filtering capabilities.

This Request page offers various actions that can be performed to make this page more user friendly.

														Wed, 5 Jul 2023 11:28:03 [Setup]	[[Custo	her] Har	nd Kurth
	MY	TASKS	1	SERVICES	s ⁴ INCIDENTS ⁵	CHANGES ⁷	PROBLEMS ²							SEARCH			0
)	My T	eams T	asks (Ac	tive) T -	в												
		0:		2	# REQUEST #	# CREATED	# STAJUS	I PROBUTY	# ITEM TYPE	# TECHNICIAN	\$ TEAM	CUSTOMER	# GROUP	SUBJECT	4	10	:
	0		0		100028	09/16/20 03:27	Pending	High	Service Desk	System Supervisor	Problem Team	System Supervisor	Problem #100028	Problem Request	-0	J^{1}	1
	0		0		100027	09/16/20 03:25	Pending	High	Hardware Type	System Supervisor	Default incident Team	Kamal Kushwaha	Multiple Item Requ.,	Incident Request for HP Devices	-	L^{1}	1
		01	8		100026	09/16/20 03:25	Pending	High	Hardware Type	System Supervisor	Default incident Team	Kamal Kushwaha	Multiple Item Requ	Incident Request for HP Devices		$\underline{J}^{(i)}$	1
		¢(100025	09/16/20 03:22	in Progress	Medium	20/works Bundle Type	System Supervisor	Service Request Team	System Supervisor	Multiple Item Regu	Service Request from System 5.	-0	40	1
	O,				100024	09/16/20 03:22	in Progress	Medium	20Nworks Bundle Type	System Supervisor	Service Request Team	System Supervisor	Multiple Item Regu	Service Request from System 5-	- 41	49	1
	0	(0)			100021	09/16/20 03:04	Pending - CAB	Medium	Software Type	System Supervisor	Change Team	Kamal Kushyaha	Multiple Item Regu	Bulk Change Request for Multi.	0	J^{j}	1
	0			*	100020	09/16/20 03:04	Pending - CAB	Medium	Software Type	Valbhav Jain	Change Team	Kamal Kushwaha	Multiple Item Regu	Bulk Change Request for Multi.	-0	I^{j}	1
	0		B		100019	09/16/20 03:04	Open	Medium	Service Desk	System Supervisor	Change Team	Vaibhav Jain	Multiple Item Regu	Bulk Change Request for Multi-		${\mathcal P}$	1
				÷	100018	09/16/20 03:04	Pending - CAB	Medium	Software Type	Vaibhav Jain	Change Team	Vaibhav Jain	Multiple Item Requ.,	Bulk Change Request for Multi.	- 40	J^{2}	1
	0				100017	09/16/20 03:04	Pending - CAB	Medium	Hardware Type	System Supervisor	Change Team	System Supervisor	Multiple item Requ	Bulk Change Request for Multi.		${\cal P}$	1
					100016	09/16/20 03:04	Pending - CAB	Medium	Hardware Type	System Supervisor	Change Team	System Supervisor	Multiple Item Regu	Bulk Change Request for Multi-		$\frac{1}{2}$	1
	0		0		100015	09/16/20 02:47	Pending	Medium	Software Type	System Supervisor	Problem Team	System Supervisor	Problem #100015	Problem request for Adobe ill	-0	\mathcal{J}^{p}	1
	0				100014	09/16/20 02:27	Pending - CAB	Medium	Service Desk	System Supervisor	Change Team	System Supervisor	Problem #100015	Change Request for Item 1000.	-10	\mathcal{A}^{1}	1
	D	-01			100013	09/16/20 02:13	Pending	Medium	ZENworks Bundle Type	System Supervisor	Service Request Team	Vaibhav Jain	Multiple Item Regu	Service Request for Linux Bun	-0	\underline{J}^{0}	1
					100012	09/16/20 02:13	Pending	Medium	ZENworks Bundle Type	System Supervisor	Service Request Team	System Supervisor	Multiple item Requ	Service Request for Linux Bun	-0	\mathcal{J}^{1}	1
			8		100011	09/15/20 22:22	Pending	High	Hardware Type	System Supervisor	Default incident Team	System Supervisor	Multiple Item Regu	Incident Request for HP Laptop	-0	${\cal S}^{2}$	1
	0				100010	09/15/20 22:22	Pending	High	Hardware Type	System Supervisor	Default incident Team	Vaibhay Jaim	Multiple Item Requ.	Incident Request for HP Laptop	-10	20	1

Based on requirements, you can refer to any of the following links:

- Request List
 - Table 2-1 on page 329
 - Filters
 - Customizing Columns
 - Full Text Search Options
- Request Summary
- Create Quick Request
- Create Request

2.1 Request List

The Request List page displays all the requests. The requests can be identified based on the associated icon:

- **R**Service Request
- Incident
- Change Request
- Problem

The following table provides information on various actions that can be performed in all the requests pages:

Actions	Description
Create Requests	 You can create a request by clicking the signal icon in the Menu bar. In the newly designed ZENworks Service Desk, you will be able to create request from anywhere in the portal.
	For more information, see the Section 2.9, "Create Request," on page 358 section.
	 To create a quick request in the Request tab, click the bicon displayed at the bottom of the screen.
	For more information, see the Section 2.8, "Create Quick Request," on page 357 section.

ctions	Description
Export Data	The list can be exported into a PDF or Excel by clicking 📑.
	After clicking the icon, the following pop-up will be displayed.
	EXPORT DATA AS ×
	Generate exported file type as: PDF EXCEL
	MAXIMUM OF 100 RECORDS WILL BE EXPORTED
	CANCEL EXPORT DATA While exporting to excel, you have an option to select the columns to should be included in excel.
	While exporting to excel, you have an option to select the columns to
	While exporting to excel, you have an option to select the columns to should be included in excel.
	While exporting to excel, you have an option to select the columns to should be included in excel.
	While exporting to excel, you have an option to select the columns is should be included in excel.
	While exporting to excel, you have an option to select the columns to should be included in excel. EXPORT DATA AS Generate exported file type as. PDF EXECT EXECT SELECT ON DESELECT COLUMNS TO EXPORT Close Date Request # Request # Rem Category Open Time # Attachments Close Date Rem Category Classification IP Impact Dynamic Formation Org. Unit Lagged by Customer Solution Due Date New Note Subject New Note Teachniciani SLA Customer Technician SLA

Actions	Description
Link	To link (Group) requests, select the required requests, Click . A Group Number will be automatically assigned and an hyperlink will be displayed in the Group column.
	This is a bulk operator, you can select multiple request to link. However, If any selected request is part of an existing group, then the remaining requests will be added to the same group.
	The linking (grouping) fails, if you have selected requests that are part of more than one group.
	For instance, if you have two Groups (A and B) each with two requests (A1, A2, B1 and B2), and you want to add two unlinked requests to Group A, select the check boxes for the unlinked requests and either A1 or A2 or both. If B1 or B2 is also clicked, the linking process will fail as the system cannot decide to which group the two new requests should be added.
	The link icon is not displayed in the Problems tab. However, you can link the Problem Requests with other type of non-grouped requests in the My Tasks tab.
Close	Click I to close requests. Only the supervisor can perform this action.
	This is a bulk operator, you can select multiple request to close. However, if you have selected multiple requests, then the operation will be performed only on the requests that are applicable.
Reopen	Click 1 to reopen requests. Only the supervisor can perform this action.
	This is a bulk operator, you can select multiple request to reopen. However, if you have selected multiple requests, then the operation will be performed only on the requests that are applicable.
Delete	Click 🔟 to delete request. Only the supervisor can perform this action.
	This is a bulk operator, you can select multiple request to delete. However, if you have selected multiple requests, then the operation will be performed only on the requests that are applicable.

Actions	Description
Customizing Columns	To customize the displayed columns, you can drag or drop the column in the required place. To add more columns, click the column icon, and then select the required field that should be displayed.
	2 Request # Item Category Q Open Time # Attachments Identifier Last State Change Close Date Item Priority Warning Sent Urgency Time in State C Created Item Status Classification P Impact C Customer Z tem Type Lest Action Status Item Criticality Cleint Room Org. Unit Last Action Status Lem Criticality Cleint Room Oue Date Logged by Customer Solution Logged Time (mins) Source Subject New Note Technician SLA Restore Date Layer New Task Team Escalation Customer Item Group Op
	NOTE: For older request, Time in State and Last State Change columns will not display any data. After modify the requests, the data will be displayed in these two columns. For more information, see the Section 2.7.12, "Customizing Columns," on page 353 section.
Awaiting Inputs	The with icon represents that the request is awaiting inputs from the customer.
Awaiting Approval	The 🕑 icon represents Awaiting My Approval.
SLA Breached	The 😢 icon represents the request has breached the SLA.
Escalated	The 🗽 icon represents that the request is escalated.
More Actions	Click the i icon to view actions that can be performed on the request. Depending on the privileges, the option enabled might vary. Add Note Approve Reject Close De-Escalate Delete Escalate Reopen
Search	On the top-right corner of the Request list page, you can find the search field. Using this field, you can search for Requests.
	For more information, see Full Text Search Options

Actions	Description
Filters	Click the arrow icon to view filter panel. Using this panel, you can filter requests based on various available options.
	Section 2.7.13, "Filters," on page 354 section.
Messages	If user adds a note to the technician in the request, then the message will be displayed along with the request, as shown in below image

2.2 My Tasks

My Tasks displays current active requests allocated to the logged in User. They can also view a list of active or all tasks assigned to the Team(s) the User is associated with, by selecting the relevant My Teams Tasks Filter.

To view a request details, select the Request #hyperlink.

My 1	Teams	Tasks (Al	1) T -	B													un i		¢-
	0		4	@ REQUEST #	i + CRE	EATED	* OPEN TIME	# DUE DATE	* STATUS	e PRIORUTY	© ITEM TYPE	# TECHNICIAN	# TEAM	* CUSTOMER	# GROUP	SUBJECT		4	
	•	u	*	100944	L. 09/02	2/20 07:58	16:21	09/03/20 07:59	Pending	Urgent	hardware type 1	Valbhav Jain	incident_team	Sukanta Dash		test	-0	4	1
	•!	П	*	100943	I 09/02	2/20 07:	16:22	09/03/20 07:58	Pending	Urgent	hardware type 1	Vaibhav Jain	incident_team	Sukanta Dash		test		ł	1
	•!		¥	100942	1 09/03	2/20 07:	16:23	09/03/20 07:57	Pending	Urgent	hardware type 1	Vaibhav Jain	incident_team	Sukanta Dash		test	10	4	1
	•		*	100941	1 09/02	2/20 07:	16:24	09/03/20 07:56	Pending	Urgent	hardware type 1	Vaibhav Jain	incident_team	Sukanta Dash		test		4	1
	©!	П	'n	100940	1 09/02	2/20 07:	16:26	09/03/20 07:54	Pending	Urgent	hardware type 1	Vaibhav Jain	incident_team	Sukanta Dash		test		4	1
	0!	п	*	100929	1 09/03	2/20 07:	16:27	09/03/20 07:54	Pending	Urgent	hardware type 1	Vaibhav Jain	incident_team	Sukanta Dash		test	-0	- A	1
	0!		÷	100937	I 09/01	1/20 23:	1 Days	09/02/20 23:54	Pending	Urgent	hardware type 1	Vaibhav Jain	incident_team	Sukanta Dash		test		4	I
	0!	п	÷	100936	I 09/01	1/20 23:	1 Days	09/02/20 23:54	Pending	Urgent	hardware type 1	Vaibhav Jain	incident_team	Sukanta Dash		test		Į.	1
	01		je.	100935	I 09/01	1/20 23:	1 Days	09/02/20 23:54	Pending	Urgent	hardware type 1	Vaibhav Jain	incident_team	Sukanta Dash		test		L.	I

For more information on the tasks that can be performed in this page, see Table 2-1 on page 329

2.3 Service Requests

This page lists all the associated service requests.

To view a request details, select the Request #hyperlink.

If a request row is in bold, then the request has not been viewed by the technician.

MY 1	rasks ¹¹	и	SERVI	CE REQUESTS ¹³⁹	INCIDENTS ¹¹¹	CHANGE RE	QUESTS ¹⁶	PROBLEMS	19						SEARCH			Q
All Se	ervice R	equests	τ.	в														•
				# REQUEST #	0 CREATED	OPEN TIME	O DUE DATE	© STATUS	* PRIORITY	O ITEM TYPE	@ TECHNICIAN	# TEAM	© CUSTOMER	¢ GROUP	SUBJECT		-	
	0!		×													-	\$	1
	0!	R	3e	100374	10/07/20 21:48	5 Days	10/08/20 21:49	Pending	Urgent	Dell	Naga Krishna	service_team	Sukanta Dash		dsdsadasd	-0	$\underline{J}^{(i)}$	I
	01	8	je.	100369	10/07/20 19:17	S Days 03 Hrs	10/08/20 19:17	Pending	Urgent	Service Desk	Naga Krishna	service_team	abhi singh		test	-0	\mathbb{R}^{2}	1
				100365	10/07/20 19:12	5 Days 03 Hrs	10/08/20 19:13	On Hold	Urgent	service type 4	Naga Krishna	service_team	abhi singh	Problem #100	kba	-	4^{2}	I
	0!	8	÷	100363	10/06/20 07:07	6 Days 15 Hrs	16/07/20 07:07	Pending	Urgent	Visual and Imagin	swaraj Patel	service_team	Sukanta Dash		Creating a service req.	0	$\underline{J}^{(i)}$	I
	0!		÷	100362	10/06/20 07:07	6 Days 15 Hrs	10/07/20 07:07	Pending	Urgent	Visual and Imagin	Naga Krishna	service_team	Sukanta Dash		Creating a service roq.	- 0	\underline{J}^{\pm}	I
				100361	10/06/20 07:07	00:00	10/07/20 07:07	Closed	Urgent	Visual and Imagin	Naga Krishna	service_team	Sukanta Dash		Creating a service req.		${\cal A}^{(i)}$	I
3	0!	8	ż	100360	10/06/20 07:07	6 Days 15 Hrs	10/07/20 07:07	Pending	Urgent	Visual and Imagin	swaraj Patel	service_team	Sukanta Dash		Creating a service req.	- 41	12	1
	0!	8	k	100359	10/06/20 07:07	6 Days 15 Hrs	10/07/20 07:07	Pending	Urgent	Visual and Imagin	Naga Krishna	service_team	Sukanta Dash		Creating a service req.		\mathcal{L}^{0}	1
	0!	B	je.	100358	10/06/20 07:07	6 Days 15 Hrs	10/07/20 07:07	Pending	Urgent	Visual and Imagin	swaraj Patel	service_team	Sukanta Dash		Creating a service req.	- 41	$d^{(i)}$	ŧ
	0!		3e	100357	10/06/20 07:07	6 Days 15 Hrs	10/07/20 07:07	Pending	Urgent	Visual and Imagin	Naga Krishna	service_team	Sukanta Dash		Creating a service req.		${\cal S}^{(i)}$	1
	01			100356	10/06/20 07:06	00:00	10/07/20 07:07	Closed	Urgent	Visual and Imagin	Naga Krishna	service_team	Sukanta Dash		Creating a service req.		49	I
3		8		100355	10/06/20 07:06	00:00	10/07/20 07:07	Closed	Urgent	Visual and Imagin	Naga Krishna	service_team	Sukanta Dash		Creating a service req.		$\underline{J}^{(i)}$	1
3		в		100318	10/06/20 07:05	00:00	10/07/20 07:06	Closed	Urgent	Visual and Imagin	Naga Krishna	service_team	Sukanta Dash		Request created to ver	- 4	R	1
	-	-		100018	10/06/00 07/05	C Day	10/07/30 07/06	Bendler	Ileanat	hand on the 1	annesi Datal	and the base	Culturate Dash	Casue F10004E			9	

For more information on Service Request, see Service Requests

For more information on the tasks that can be performed in this page, see Table 2-1 on page 329 For more information on the Request Summary page, see Request Summary.

2.4 Incident Requests

This page lists all the associated incident requests.

To view a request details, select the Request #hyperlink.

If a request row is in bold, then the request has not been viewed by the technician.

MY	TASKS ¹⁰	Й	SERVIC	E REQUESTS ¹³⁹	INCIDENTS 111	CHANGE RE	QUESTS ⁹⁶	PROBLEMS ²	9						SEARCH			Q
All In	icidents	T -	₽-															۵-
_	0!		5	¢ REQUEST #	# CREATED	OPEN TIME	DUE DATE	@ STATUS	* PRIORITY	© ITEM TYPE	TECHNICIAN	0 TEAM	# CUSTOMER	# GROUP	SUBJECT		40	
	0!		*	100376	10/12/20 02:15		10/13/20 02:15	Pending	Urgent	Bosch	Valbhay Jain	incident_team	Sukanta Dash			-	1	1
	01		÷	100375	10/12/20 00:04	22:41	10/13/20 00:04	Pending	Urgent	hardware type 2	Valbhav Jain	incident_team	Sukanta Dash			-10	J^{1}	1
	0!	п	*	100368	10/07/20 19:16	5 Days 03 Hrs	10/08/20 19:16	Pending	Urgent	hardware type 1	Vaibhav Jain	incident_team	abhi singh		test	-0	$J^{(i)}$	1
	0!	в	'n	100364	10/07/20 19:11	5 Days 03 Hrs	10/08/20 19:12	Pending	Urgent	Visual and Imagin	Valbhav Jain	incident_team	abhi singh		test	-0	J^{\pm}	1
	0!		'n	100346	10/06/20 07:06	1 Days 15 Hrs	10/07/20 07:07	Closed	Urgent	Visual and Imagin	Valbhav Jain	incident_team	Sukanta Dash		Creating an incident r	-	$I^{(i)}_{i}$	1
	0!		k	100345	10/06/20 07:06	6 Days 15 Hrs	10/07/20 07:07	Pending	Urgent	Visual and imaging _	Mukesh Kushwaha	incident_team	Sukanta Dash		Creating an incident req	-8	20	ı
	61	п		100344	10/06/20 07:06	00:00	10/07/20 07:07	Closed - R.,	Urgent	Visual and Imaging	Yashwanth Bellur	incident_team	Sukanta Dash		Creating an incident req	-111	I^{0}	1
	•!		k	100343	10/06/20 07:06	6 Days 15 Hrs	10/07/20 07:07	Pending	Urgent	Visual and Imagin	Vaibhav Jain	incident_team	Sukanta Dash		Creating an incident r	-0	\mathscr{J}^{2}	1
	0!		'n	100342	10/06/20 07:06	6 Days 15 Hrs	10/07/20 07:07	Pending	Urgent	Visual and Imagin	Valbhav Jain	incident_team	Sukanta Dash		Creating an incident r	-	40	1
	0!		je .	100341	10/06/20 07:06	6 Days 15 Hrs	10/07/20 07:06	Pending	Urgent	Visual and Imagin	Valbhav Jain	incident_team	Sukanta Dash		Creating an incident r	-	${\cal S}^{0}$	I
	0!		÷	100340	10/06/20 07:06	6 Days 15 Hrs	10/07/20 07:06	Pending	Urgent	Visual and Imagin	Vaibhav Jain	incident_team	Sukanta Dash		Creating an incident r	-40	${\cal J}^{2}$	1
		п		100339	10/06/20 07:06	00:00	10/07/20 07:06	Closed · R.,	Urgent	Visual and imaging	Yashwanth Bellur	incident_team	Sukanta Dash		Creating an incident req	-0	1	1
				100311	10/06/20 07:05	6 Days 15 Hrs	10/07/20 07:05	On Hold	Urgent	hardware type 1	Yashwanth Bellur	incident_team	Sukanta Dash	Multiple Item	Creating an incident r	-0	R	1
-	-	-		10000	10.002.000.00.02	C D		Burton			10 lb have been	And double and	Patrick Back	C	P	alla.	-	

For more information on Service Request, see Incidents

For more information on the tasks that can be performed in this page, see Table 2-1 on page 329 For more information on the Request Summary page, see Request Summary.

2.5 Change Requests

This page lists all the associated change requests.

To view a request details, select the Request #hyperlink.

If a request row is in bold, then the request has not been viewed by the technician.

MY	TASKS ¹	01	SERVI	CE REQUESTS ¹³⁹	INCIDENTS ¹¹¹	CHANGE RE	QUESTS ⁹⁶	PROBLEMS ²⁹					SEARCH			Q
All C	hange	Request	•۲۰	в									1			0 -
				# REQUEST #	e status	@ PRIORITY	© DUE DATE	© TECHNICIAN	© TEAM	© ITEM TYPE	© CUSTOMER	DESCRIPTION	SUBJECT			
	01		R											-9	$\frac{1}{2}$	1
		B		100373	Pending	Urgent	10/08/20 19:24	Naga Krishna	change_team	Visual and Imaging	abhi singh	test	test	а.	d^{0}	I
		•		100371	Pending	Urgent	10/08/20 19:19	Naga Krishna	change_team	hardware type 1	abhi singh	test	test	8	d^{\pm}	I
		۵		100367	Pending	Urgent	10/08/20 19:15	Naga Krishna	change_team	Visual and Imaging	abhi singh	test	TEST	-0	J^{0}	I
	0!	8		100338	Team Man	Urgent	10/07/20 22:25	Sukanta Dash	change_team	Visual and Imaging	Sukanta Dash	verify public article soluti	Creating a change reques	-0	\mathcal{A}^{i}	I
	0!	•		100337	Team Man	Urgent	10/07/20 22:32	Sukanta Dash	change_team	Visual and Imaging	Sukanta Dash	verify public article soluti	Creating a change reques	а.	$\frac{d^{2}}{d}$	I
				100336	Closed (Ve	Urgent	10/07/20 07:06	Naga Krishna	change_team	Visual and Imaging	Sukanta Dash	verify public article soluti	Creating a change reques	8	d^{\pm}	I.
		•		100335	Pending	Urgent	10/07/20 07:06	Naga Krishna	change_team	Visual and Imaging	Sukanta Dash	verify public article soluti	Creating a change reques	÷.	I^{1}	I
		B		100334	Pending	Urgent	10/07/20 07:06	Naga Krishna	change_team	Visual and Imaging	Sukanta Dash	verify public article soluti	Creating a change reques	ų.	d^0	ł
	01			100333	Pending	Urgent	10/07/20 07:06	Naga Krishna	change,team	Visual and Imaging	Sukanta Dash	verify public article soluti	Creating a change reques	а.	\underline{A}^{\pm}	1
		•		100332	Pending	Urgent	10/07/20 07:06	Naga Krishna	change_team	Visual and Imaging	Sukanta Dash	verify public article soluti	Creating a change reques	а.	d^{\pm}	ł
	01	۵		100331	Pending	Urgent	10/07/20 07:06	Naga Krishna	change_team	Visual and Imaging	Sukanta Dash	verify public article soluti	Creating a change reques	-0	L^1	I
		8		100330	Pending	Urgent	10/07/20 07:06	Naga Krishna	change_team	Visual and Imaging	Sukanta Dash	Request created to verify	Request created to verify	-	15	I
	01			100329	Pending	Urgent	10/07/20 07:06	Naga Krishna	change_team	Visual and Imaging	Sukanta Dash	Request created to verify	Request created to verify		R	I
-		-		1000300	Boudlass	Harran	10.001.000.01.07	Mana Malabas	descent terms	Manual and American	Colorest Deeb	R	R	10.	9	

For more information on Service Request, see Change

For more information on the tasks that can be performed in this page, see Table 2-1 on page 329 For more information on the Request Summary page, see Request Summary.

2.6 Problems

This page lists all the associated problems logged with the system.

To view a request details, select the Request #hyperlink.

If a request row is in bold, then the request has not been viewed by the technician.

MY 1	TASKS ¹⁰	11	SERVICE	REQUESTS ¹³⁹	INCIDENTS ¹¹¹	CHANGE REC	UESTS ⁹⁶	PROBLEMS ²	9						SEARCH			Q
All Pr	roblems	τ-	₽.															۰.
_	(C)		14	© REQUEST #	© CREATED	OPEN TIME	© DUE DATE	© STATUS	e PRIORITY	© ITEM TYPE	© TECHNICIAN	¢ TEAM	© CUSTOMER	© GROUP	SUBJECT	.th	19	
U	0:		57						~								H-	:
	0!	Ø	ż	100372	10/07/20 19:23	5 Days 03 Hrs	10/08/20 19:23	Pending	Urgent	Visual and Imagin	Mukesh Kushwa	problem_team	abhi singh	Problem #100	test	-	\mathbb{T}_{2}	1
	€!	0	de .	100370	10/07/20 19:18	5 Days 03 Hrs	10/08/20 19:18	Pending	Urgent	hardware type 1	Mukesh Kushwa	problem_team	abhi singh	Problem #100	test	-	10	1
	0!	0	je -	100366	10/07/20 19:13	5 Days 03 Hrs	10/08/20 19:14	Pending	Urgent	Visual and Imagin	Mukesh Kushwa	problem_team	abhi singh	Problem #100	TEST	-	10	ł.
	©!	0	je -	100354	10/06/20 07:06	6 Days 15 Hrs	10/07/20 07:07	Pending	Urgent	Visual and Imagin	Mukesh Kushwa	problem_team	Sukanta Dash	Problem #100	Creating a problem re	-	₫3	i
	©!	0	je -	100353	10/06/20 07:06	6 Days 15 Hrs	10/07/20 07:07	Pending	Urgent	Visual and Imagin	Mukesh Kushwa	problem_team	Sukanta Dash	Problem #100	Creating a problem re	-	<u>4</u> 9	i
	0!	0		100352	10/06/20 07:06	00:00	10/07/20 07:07	Closed	Urgent	Visual and Imagin	Naga Krishna	problem_team	Sukanta Dash		Creating a problem re	-	<u>1</u> 0	÷
	0!	0	je –	100351	10/06/20 07:06	6 Days 15 Hrs	10/07/20 07:07	Pending	Urgent	Visual and Imagin	Mukesh Kushwa	problem_team	Sukanta Dash	Problem #100	Creating a problem re	-	10	ł.
	©!	0	je –	100350	10/06/20 07:06	6 Days 15 Hrs	10/07/20 07:07	Pending	Urgent	Visual and Imagin	Mukesh Kushwa	problem_team	Sukanta Dash	Problem #100	Creating a problem re	-	<u>#</u> 3	ł
	0!	0	je –	100349	10/06/20 07:06	6 Days 15 Hrs	10/07/20 07:07	Pending	Urgent	Visual and Imagin	Mukesh Kushwa	problem_team	Sukanta Dash	Problem #100	Creating a problem re		<u>1</u> 9	I
	©!	0	je -	100348	10/06/20 07:06	6 Days 15 Hrs	10/07/20 07:07	Pending	Urgent	Visual and Imagin	Mukesh Kushwa	problem_team	Sukanta Dash	Problem #100	Creating a problem re	-	<u>1</u> 2	1
	01	0		100347	10/06/20 07:06	00:00	10/07/20 07:07	Closed	Urgent	Visual and Imagin	Naga Krishna	problem_team	Sukanta Dash		Creating a problem re		10	I
	€!	0	k	100312	10/06/20 07:05	6 Days 15 Hrs	10/07/20 07:05	Pending	Urgent	hardware type 1	Mukesh Kushwa	problem_team	Sukanta Dash	Problem #100	creating a problem re	-	<u>_</u> 9	I.
	•!	Ø	je –	100306	10/06/20 07:05	6 Days 15 Hrs	10/07/20 07:05	Pending	Urgent	hardware type 1	Mukesh Kushwa	problem_team	Sukanta Dash	Problem #100	creating a problem re	-	C)	i
_		~		100000	10/02/200 03:07	C D		B	the second	L			Future Buch	B		10.		

For more information on Service Request, see Problems Tab

For more information on the tasks that can be performed in this page, see Table 2-1 on page 329

For more information on the Request Summary page, see Request Summary.

2.7 Request Summary

The Request Information page section provides comprehensive details related to a Request.

The Following table provides a brief introduction on the information displayed in the Request Information page:

Table 2-	1
----------	---

Field/Section	Description
Subject	Displays the priority of the request, Request Priority, Request Number and Request Title.
	NOTE: The priority is always derived and cannot be added manually selected. The available priorities are U-Urgent (highlighted in Red), H-High (highlighted in Orange), M-Medium ((highlighted in Yellow) and L-Low (highlighted in Green).
	SUBJECT M II 100000 Unable to connect to WIFI after system migration
	Request Title: Displays the title of the request. If required, you can click the <i>s</i> to edit the title of the request. You can edit only Requests that are assigned to you.

Field/Section	Description
Description	Description: Displays the description that was specified while creating a request. If required, you can click the Image: icon to edit the description. Attachments: Displays the number of attachments associated with this request. To view or add attachments, click the Attachment link. To add an attachment, you can either click or drag and drop the file in the field. VIEW & UPLOAD ATTACHMENTS Image: To add attachments, click here, or Drag and Drop files. (Max size 500 MB per file)
	BuildOutput.png AmNWaGLwFM_XVIo.mp4 Certificate.pdf Certificate.pdf
Notes	Displays the Note associated with this request.
General	For more information on Adding Note, see the Section 2.7.5, "Add Note," on page 343 section.
	n the General panel, generic information about the request is displayed. For more information that is displayed in this panel, see the Section 2.7.1, "General," on page 334 section.
mpact	In the Impact panel, generic information about the request is displayed. For more information that is displayed in this panel, see the Section 2.7.3, "Impact," on page 338 section.
Audit	In the Audit panel, generic information about the request is displayed. For more information that is displayed in this panel, see the Section 2.7.4, "Audit," on page 342 section.
Delete	Click 🔟 to delete the Request.

Field/Section	Description
Duplicate	Click Click create a duplicate of a Request.
	When a request is duplicated, the new request is linked with the original request creating a request group. Requests can be unlinked in the Group's Elements tab.
Assign to Me	Click 🛃 to assign the request to yourself.
Convert To	Click 🔁 to convert the request.
	Only the following requests can be converted:
	 Incident to Service Request: To convert Incident to Service Request, Item should not be unknown, item should belong to the service category, incident should not have solution/ workaround applied, there is at least one user in ZSD with "Service Request" process assigned.
	 Service Request to Incident: To convert Service Request to Incident, Item should not be unknown.
Export as PDF	Click b to export the Request details into a PDF file.
	After clicking the icon, a pop-up is displayed. In the pop-up, you can select the options to include all notes or last note associated with this request, and to include Private Notes associated with this request.
Print Preview	Click 😑 to preview the Request for printing.
	A preview of the request will be displayed. In the preview pop-up, Click the Print button to print the request.
Similar Requests	Click to view Requests similar to this request. After clicking the icon, a pop-up is displayed. In the pop-up, you can select any required request and the request opens in a new browser tab.
	SIMILAR REQUESTS
	◆ Request# ◆ Created ◆ Status ◆ Priority ◆ Item Type ◆ Group Description
	100243 09/05/20 21:46 Pending Urgent hardware type 1 incident request description P
	100242 09/05/20 21:46 Open Urgent hardware type 1 incident request description @
	100239 09/05/20 21:46 Pending Urgent hardware type 1 incident request description @
	100238 09/05/20 21:46 Pending Urgent hardware type 1 incident request description 🔗
	160237 09/05/20 21:46 Pending Urgent hardware type 1 incident request description O
	FIRST < 1 2 3 4 5 > LAST

Field/Section	Description			
Alerts		ministrators, Supervisors a ortant issues relevant to t		
	This panel displays th	e alerts associated with th	is request.	
	ALERTS (3)		+NEW	
	9 09/06/20 22:34			
	SLA Breached for Incident	100345		
	9 09/06/20 10:35			
	SLA Breached for Incident	100345		
	9 09/06/20 04:35			
Service Terms	The Service Terms sid	100345 I, see the Section 2.7.6, "A ebar displays the Service L provides details of key dat	evel Agreement (SI	
Service Terms	For more information The Service Terms sid	i, see the Section 2.7.6, "A ebar displays the Service L	evel Agreement (SI	
Service Terms	For more information The Service Terms sid Service Request and p	i, see the Section 2.7.6, "A ebar displays the Service L	evel Agreement (Sl es.	
Service Terms	For more information The Service Terms sid Service Request and p	i, see the Section 2.7.6, "A ebar displays the Service L	evel Agreement (Sl es.	
Service Terms	For more information The Service Terms sid Service Request and p SERVICE TERMS SERVICE AGREEMENT	i, see the Section 2.7.6, "A ebar displays the Service L	evel Agreement (Sl es.	
Service Terms	For more information The Service Terms sid Service Request and p SERVICE TERMS SERVICE AGREEMENT Warranty	a, see the Section 2.7.6, "A ebar displays the Service L provides details of key dat	evel Agreement (Sl es.	
Service Terms	For more information The Service Terms sid Service Request and p SERVICE TERMS SERVICE AGREEMENT Warranty PROGRESS	a, see the Section 2.7.6, "A ebar displays the Service L provides details of key dat	evel Agreement (Sl es.	
Service Terms	For more information The Service Terms sid Service Request and p SERVICE TERMS SERVICE AGREEMENT Warrantv PROGRESS 40%	ebar displays the Service L provides details of key dat AFFECTED USERS 22	evel Agreement (Sl es.	
Service Terms	For more information The Service Terms sid Service Request and p SERVICE TERMS SERVICE AGREEMENT Warrantv PROGRESS 40%	a, see the Section 2.7.6, "A ebar displays the Service L provides details of key dat AFFECTED USERS 22 OPEN DATE	evel Agreement (Sl es.	
Service Terms	For more information The Service Terms sid Service Request and p SERVICE TERMS SERVICE AGREEMENT Warrantv PROGRESS 40% SERVICE DESK	AFFECTED USERS 22 OPEN DATE 09/08/20 15:32	evel Agreement (Sl es.	
Service Terms	For more information The Service Terms sid Service Request and p SERVICE TERMS SERVICE AGREEMENT Warrantv PROGRESS 40% SERVICE DESK DUE DATE	AFFECTED USERS 22 OPEN DATE 09/08/20 15:32 REMAINING	evel Agreement (Sl es.	

Field/Section	Description		
OLA/UPC Configuration	The UPC panel displays the support services provided to the Service Desk by extensive providers.		
	UPC		
	UPC_Automation_1		
	REMAINING (%) DUE DATE		
	69 % 09/13/20 19:35		
	For more information, see the Section 2.7.8, "OLA/UPC Configuration," on page 3 section.		
Solutions			
Solutions	section. The Solutions panel displays the relevant solutions and workarounds that are applicable to the request.		
Solutions	section. The Solutions panel displays the relevant solutions and workarounds that are applicable to the request. SOLUTIONS (3) +NEW		
Solutions	section. The Solutions panel displays the relevant solutions and workarounds that are applicable to the request. Search Solution Q		
Solutions	section. The Solutions panel displays the relevant solutions and workarounds that are applicable to the request. Solutions (3) +NEW Search Solution O Workaround Solution O Workaround Solution N: hardware_Article_with_Attachm 100% APPLY ent_1		

Field/Section	Description					
Linked Requests	In the Linked Requests panel, you can link requests with the request.					
	LINKED REQUEST (3)	+LINK NEW				
	Search Requests to Link	Q				
	Request O Group					
	C 100369 & Creating an incident request to verify pro onality through CT Automation	ppose solution functi				
	R 100366 🔀					
ZENworks Tools	Creating an incident request to verify propose solution functi onality through CT Automation					
	100365 X Creating an incident request to verify propose solution function onality through CT Automation					
	section.	ction 2.7.10, "Linked Requests," on page 351	emo			
	The ZENworks Tools panel enables you to perform Bundle Management and Remo Control operations.					
	X ZENworks TOOLS					
	Effectively manage ZENworks bundles. You block or unblock bundles.	u can assign, remove,				
	REMOTE CONTROL Remotely manage the device using ZENwo	orks Remote				
	Management capabilities.					
	For more information, see the Section 2.7.11, "ZENworks Tools," on page 352 section.					

Following are the list of panels available in the Request Summary page:

- General
- Impact
- Audit

2.7.1 General

The General panel displays the following information:

Section	Description
Details	The following details are displayed:
	 Customer: The customer assigned to the Incident. Click the and specify the customer name or email ID to modify the field. Scroll over the information icon new_info_icon.png next to the Customer for quick information such as Username, Org.Unit, Phone and Local Time.
	 Item Number: An item assigned to the Request. Click the , and specify the item name to modify the field.
	To modify the status of the Item, click the select , and then select the required status. Depending on the selected item, the options displayed might vary.
	• Reported By : Displays the name of the user who reported this issue.
	 Item Type: Displays the item type associated with the request.
	 Classification: Displays the Classification of the category to which the item belongs. This field can be updated, if required.
	• Urgency: Displays the urgency of the request.
	Target Device: Displays the device that is associated with this request
	 Team: Displays the support Team assigned to the Request. This can be changed by selecting another option within the drop-down list.
	 Workflow: Displays the Workflow assigned to the Request. This can be changed by selecting another option within the drop-down list.
	 Status: Displays the current Workflow State of the Request. For more information, See Status.
	 Next Action: Lists all the States available after the current Request State. This is based on the Workflow assigned to the Request. To move the Service Request through the Workflow, select a Status included in the list displayed.
	By assigning a different Workflow State, the Work or Manager Group assigned to the Request may also be automatically updated, based on the Workflow and Team Configuration. Refer to the Escalation Layer and Technician Fields to view if an assignment change is made as part of the Status update.

Section	Description			
Escalation	The following details are displayed:			
	 Status: Displays whether the escala on requirements, you can enable o 			
	To enable or disable the Status field Requests. In this page, enable or di field. Only the Supervisor can modi	sable the Enable Escalation Contro		
	 Layer: Displays the number of level Team assigned to the request, and currently assigned. 			
	• Technician : The name of the Techn	ician assigned to the request.		
	When an request is assigned to the Technician field is System User.	Queue, the name applied in the		
	 Escalate Now: Click the <i>b</i> icon to the icon, a pop-up is displayed as sl 			
	should be escalated and a note for technician is an optional field. If a t system-assigned technician will be	echnician is not selected, then the		
	ESCALATE	×		
	ESCALATE TO TECHNICIAN			
	[System Assigned]	~		
	NOTE FOR TECHNICIAN	.d		
	CAN	CEL ESCALATE		
	 De-Escalate: Click the sicon to de the icon, a pop-up is displayed as sl In the pop-up window, select the te should be de-escalated and a note technician is an optional field. If a t system-assigned technician will be 	nown below. echnician from whom the request for the technician. Selection of echnician is not selected, then the		
	DE-ESCALATE	×		
	DE-ESCALATE TO TECHNICIAN			
	[System Assigned]	~		
	NOTE FOR TECHNICIAN	.±		
	CANCEL	DE-ESCALATE		

Section	Description			
Notification	The following details are displayed:			
	Customer:			
	Via : Select how you want to send the update notifications. The available options are:			
	 None: Select this option, if you do not want to send any notifications. 			
	 Email: Select this option, if you want to send notifications via Email. 			
	• SMS: Select this option, if you want to send notifications via SMS			
	 To: Select whether the incident update notification should be sent to the Customer who logged the Incident, or to all Owners of the Item associated with the Request. 			
	 Customer CCs: Customer CCs is a free text field for any additional notification recipients. 			
	Technicians:			
	 Via: Select how you want to send the update notifications. The available options are: 			
	 None: Select this option, if you do not want to send any notifications. 			
	 Email: Select this option, if you want to send notifications via Email. 			
	• SMS: Select this option, if you want to send notifications via SMS			
	 To: Select whether the update notification should be sent to the default Technician, or to all Technicians in the Team or Layer of Escalation assigned to the Incident. 			
	 Technician CCs: Technician CCs is a free text field for any additional notification recipients. 			
Additional Information	The following details are displayed:			
	• Line Manager: Displays the name of manager user associated with the customer, which maybe relevant when seeking approvals for Service or Change Requests.			
	• Location: Location from where this request is created.			
	 Preferred Contact Type: The preferred contact type. This field includes Phone and Email. 			
	 Email: If you select Email as the Preferred Contact Type, then specify email address in the adjacent field. 			
	 Phone: If you select Phone as the Preferred Contact Type, then specify contact details and Preferred Contact Time in the respective fields. 			

2.7.2 Contract

f the Contracts are enabled for the system, the Contract tab is displayed in the Request Summary page.

When Contract is enabled, the request is in non-edit mode. To change the request to edit mode, you need to create contract - per Item base or Per request base.

If the Contract panel is not enabled, then go to Setup > Billing > Setup > Enable Contracts to enable the Contracts panel.

CONTRACT TYPE				SERVICE LEVEL		
Per Item			٠	Warranty		•
TIME				SUPPORT HOURS *		
Time Limited Sub	bscription		•			
START DATE		END DATE		TAXABLE		
10/13/2020 2:36	PM 🛗	10/13/2021 2:36 PM	苗			
TARGET						
PRIORITY	RESPONSE TIME	RESTORATION TIME		RESOLUTION TIME	24 x 7 SUPPORT	ALERT
Urgent	6 Hours	12 Hours		24 Hours	Yes	NONE
High	12 Hours	24 Hours		48 Hours	Yes	NONE
Medium	18 Hours	36 Hours		72 Hours	Nes	NONE
		48 Hours		96 Hours	Wes	NONE

For more information, see Contracts.

2.7.3 Impact

The Impact tab provides the capability to measure the progress of a Service Request relative to agreed Service Level targets and Workflow time estimates. It also includes a quick reference for identifying other Services or Items affected by the Request. This tab displays a summary of the following:

- Service targets
- Workflow estimates
- The impact of the current Service Request on related infrastructure.

	SERVICES AFFECTED	ESTIMATES CONTRACT MC	ONITOR		
status	WORKFLOW	ESTIMATE (mins)	LOGGED	DURATION	% ACTIVE
JPC Status	Incident workflow with SLA Automation	1440	0	2 Days 8 Hours 31 Mins	0%
Pending - No Contract	Incident workflow with SLA Automation	0	0	0	0%
Pending	Incident workflow with SLA Automation	0	0	1 Mins	0%
Open - Restored	Incident workflow with SLA Automation	0	0	0	0%
Open	Incident workflow with SLA Automation	0	0	0	0%

The drop-down filter options within the Impact tab include:

Options	Description	
Service Targets	Displays the target response, restoration and resolution times based on the Service Level Agreement/OLA assigned to the Request.	
Service Level Breaches	Displays service level breaches that have occurred and allows Users to assign a breach code and explanation for the breach.	
Services Affected	Displays the Service Item Number, the Service SLA and number of Affected Users for any Services related to the Item associated with the Request.	
Estimates	Provides a summary of the time estimated for each state of the Workflow based on the OLA assigned to the Request.	
Planned Outages	Provides a list of all the Planned Outages for the Item assigned to the Request.	
	Click New to create planned outages.	
Contract Monitor	If the current Service Request Workflow State is assigned an Underpinning Contract or OLA, a table is displayed outlining the response, restoration and resolution milestones. When a milestone is met, the User is required to check the relevant checkbox. The application will automatically calculate the actual time accrued to achieve the milestone. The value displayed here is used for the Contract reports.	
Purchases	When Purchase Orders are enabled in the system, any Purchase Orders associated with Items assigned to the Request are accessible through this option.	

Service Targets

The details displayed here are drawn from the Service Level assigned to the Request. These include the target Response, Restoration and Resolution times for a Request, based on the Priority assigned. If an Underpinning contract or OLA has been assigned to the Request's current state then the targets for that contract will also be listed.

Service Level Breaches

When a Request Service Level Agreement is violated, a service level breach is recorded against the Request. The User assigned to the Request will be notified and asked to provide a reason for the breach, and assign a Breach Code.

To assign a Breach Code:

- 1. Click the Request number
- 2. Click Edit
- 3. Select Impact > Service Level Breaches
- 4. Select the Phase of the SLA that was breached

If more than one SLA Phase has been breached, multiple options will be available in the Phase breached field.

5. Click Edit

The breached Phase is locked down and the Additional Info field is opened in Edit mode.

6. Assign a Breach Code

(The available codes are created by the Supervisor within the Service tab.)

- 7. Add any additional information, if required.
- 8. Click Save.

All breach information is used for reporting on Service Level Agreements.

Services Affected

When the request is logged against an Item that is associated with Services within the Item Relationships tab, the Services Affected option displays the following:

- Service Item Number
- Service SLA
- Number of affected Users

Estimates

The Estimates option allows Users to view an indication of the approximate time a Request should remain in each State of the Service Request Workflow, the amount of time logged in each State and the length of time the Request resided in each State.

Options	Description	
Estimate	Indicates the approximate length of time the Request will spend in the Workflow State. This field is automatically completed if an OLA or UC is assigned to the Workflow State.	
Logged	Is a combination of time accrued against the Request when in edit mode with the automatic timers enabled, and the sum total of Note Times manually entered by Users.	
Total	The total time a Request has resided in the Workflow State.	
% Active	The percentage of the Total time that the Request was actively worked on when in the State. The calculation is, (Logged Time divided by Total Time) x 100.	

The Estimate Times are drawn from the OLA and Underpinning Contract assigned to the current State. However, these can also be adjusted manually for each Request. To manually adjust the estimated time for a Workflow State:

- 1. Select a Request number ID
- 2. Click Edit
- 3. Move to the Impact tab, select Estimates from the drop-down list
- 4. Select the State hyperlink within the Status column of the Estimate Time to be adjusted An editor box is displayed.
- 5. Enter the adjusted time in the available field
- 6. Click Save within the editor box
- 7. Make any other time adjustments, if required
- 8. Select Save to record all manually entered time adjustments against the Service Request.

Contract Monitor

When a Workflow State with an OLA or Underpinning Contract is assigned to the Request, the Contract Monitor displays the details of the Contract. The information is used for reporting purposes and includes:

Details	Description
Contract Type	Specifies if the Contract Type is an OLA or Underpinning Contract.
Start Time	Auto-generated time the request moved to the current Workflow State.
Milestones	
Expected Response Time	Response Time calculated using the Contract target parameters.
Responded	Actual Response Time auto-calculated when the User checks the box.
Expected Restoration Time	Restoration Time calculated using the Contract target parameters.
Restored	Actual Restoration Time auto-calculated when the User checks the box.

Details	Description
Expected Resolution Time	Resolution Time calculated using the Contract target parameters.
Resolved	Actual Resolution Time auto-calculated when the User checks the box.
Comments	Allows for additional comments, if required.

TAILS	
operational Level Agreement UPC_Automation_1	Start Time
LESTONES	
xpected Response Time 09/06/20 03:44 (Technician Responsible: Yashwanth Bellur)	Responded
xpected Restoration Time 09/06/20 09:44 (Technician Responsible: Yashwanth Bellur)	Restored
xpected Resolution Time 09/06/20 21:44 (Technician Responsible: Yashwanth Bellur)	Resolved
omments	

NOTE: If Milestones are breached the Response, Restoration and Resolution times are assigned a red marking.

2.7.4 Audit

The Audit tab lists all activities that occur within the lifetime of a Request, the resources used and the history of the Request's Item. It provides access to information relating to Approval activities that are logged against the Request.

	AUE	DIT TRAIL RESOURCE UTILIZATION ITEM AUDIT TRAIL	
DATE	€ STATUS	ACTION	♥ BY Note
09/06/20 21:45	UPC Status	SLA Resolutionbreached (100% elapsed)	System User
09/06/20 09:45	UPC Status	SLA Restorationbreached (100% elapsed)	System User
09/06/20 03:45	UPC Status	SLA Responsebreached (100% elapsed)	System User
09/05/20 21:45	UPC Status	Contract State (UPC Status) enabled for contract '	Vashwanth Bellur
09/05/20 21:45	Pending	Worldlow changed from Incident Worldlow to Inciden	Yashwanth Bellur

The logged changes can be exported to a PDF by clicking the \square icon.

Audit Trail

The Audit Trail option records all the activity related to a Request. The recorded activity, which can be exported to PDF includes:

- Date and time the Request was assigned and/or reassigned to Users
- When the Request moved to a new state, or had its Priority or Due Date changed
- Details of Notes added
- Attachments activity
- Classification change
- Logged time

Resource Utilization

The Resource Utilization option displays a breakdown of the time a Request was worked on at each level of support. It details the User's name, the escalation layer they belong to, and the amount of time they spent on the Request.

Item Audit Trail

The history of the Item associated with the Request is detailed within Item Audit Trail. To access more information regarding an Item Audit Trail entry, select the Action name hyperlink.

NOTE: Click the 🛄 icon at the end of the request page to copy the link to the request.

2.7.5 Add Note

The Request Information page displays all the notes associated with the request.



To add a new note, click +ADD NOTE. After clicking the +ADD NOTE, an Add Note pop-up is displayed. Depending on the privileges, following fields will be displayed.

	CRPTION: Test Request		
O TEMPLATE AVAILABLE 🗧 🕏	DATE 08/22/22 18:09	TIME SPENT SISIBILITY	Public Import Existing Note
ragraph v sans-serif v	12pt ~ 8 %	0.53	
× B I ⊻ S ⊞ × ⊞	~ ** = = =		
			0 Wolt
SSAGE RECIPIENTS			Change the status of this request
Technicians 👼 🖛		Customers	Pending
CCs:			Include Direct Link
			SELECT EXISTING ATTACHMENTS \mathscr{O} \checkmark
			SELECT EXISTING ATTACHMENTS ♂ ~
		To add attachments, elick here, or Drag and Drop files. (Max size 500 MB)	
		To add attachments, elick here, or Drag and Drop files. (Max aize 600 MB)	
		To add attachments, elick here, or Drag and Drop files. (Max aize 500 MB)	
		To add attachments. elick here, or Drag and Drop files. (Max aize 500 MB)	

Update the following required information and then you can either add the note or save the note as a draft.

- Select Template: In this drop-down, select a predefined template that should be added as a note description.
- Time Spent: In this field, specify the time spent on the request. The specified time will be included in the overall time spent on the request.
- Visibility: Select if the note should be Private or Public.
- Import Existing Note: In this field, you can view other notes added to this request.
- Description: In this field, specify the description for the note.
- Message Recipient: In this field, select or specify email IDs to whom the addition of note should be notified.
- Request Additional Information from Customer: Select this option, if you need any additional information from the customer.
- Include Direct Link: Select this option, if you want to include the direct link of the request in the Note.
- Create Knowledge Base: Click this option, if you want to convert this Note as a Knowledge Base.
- Select Existing Attachments: If required, you can add an attachment associated with the Request to the note. To add an attachment, click the attachment icon, and then select the available attachment.

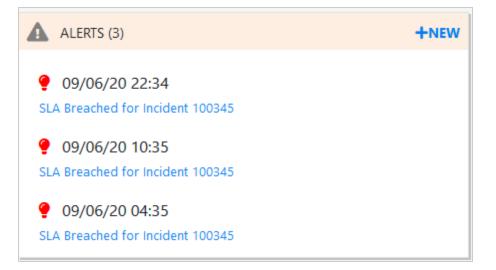
The conversational view of the notes will be displayed as shown in the following image:

CONVERSATIONS		×
	SYSTEM SUPERVISOR supervisor@mycompany.com	
	We are currently finding it difficult to replicate this issue. Can you please sen create this problem together with any screen shots that may assist with the chttp://localhost/LiveTime/WebObjects/LiveTime.woa/wa/LookupRequest?req	diagnosis. Direct Link :
	REPLY	09/16/20 23:47
VAIBHAV JAIN 9078766789		
send us the precise steps to re	Ve are currently finding it difficult to replicate this issue. Can you please -create this problem together with any screen shots that may assist with ://localhost/LiveTime/WebObjects/LiveTime.woa/wa/LookupRequest? ~Vaibhav	
REPLY	09/17/20 02:21	
	SYSTEM SUPERVISOR supervisor@mycompany.com	
	Reply to the previous conversation as Need More Information from Custome	er ~ Supervisor
	REPLY	09/17/20 02:22

2.7.6 Alerts

Alerts are an internal mechanism used by Administrators, Supervisors and Technicians to notify Users and Customers about important issues relevant to them or their environment.

This panel displays the alerts associated with this request.



If required, you can create a new Alert by clicking the Add button.

After clicking the Add button, a pop-up is displayed as shown below:

ALERT EDITOR		×
CREATED	09/09/2020 11:58	
PUBLISHED*	09/12/2020 11:58	
DISMISSED*	09/16/2020 11:58	
SEVERITY	Information ~	
USER*	Personal	
TITLE*	Reminder to review Incident 100306	
MESSAGE*	Paragraph V V V & 🐼 <> 了	
	<u>A</u> ∨ B I U S ≔ ∨ ≡ ∨ ™ ≡ ≡ ≡	
	0 WORD	s ,,
	CANCEL	ATE

Specify the following information, and then click Create:

- Created: The current date and time.
- Published: The date the Alert is published. Use the calendar icon to the right of the field, to select a Publish date.

Set to a date in the future, or use the default to publish the Alert immediately.

- Dismissed: The date the Alert ceases to be available. Use the calendar icon to the right of the field, to select a Publish date. On this date, the Alert will disappear from a User's Alert list.
- Severity: The type of Alert to be published. The choices are:
 - Information for general Alerts
 - Warning to warn Users of potential issues.
 - Urgent to publish an urgent actionable message.
- User: The User type to receive the Alert, which include:
 - Specific Customer or User In the Find User or Customer list, click search to select the recipient from the drop-down list.
 - User Role An Alert sent to a User Role will go to all Users with that Role.
 - Personal A personal Alert appears on the User's own screen at the Publish date.
 - Organizational Units In the Find Org. Unit field, search and select the recipients.
 - Public A Public Alert appears when the Public Alert link is selected on the Login Page.
- Title: Specify a title for the Alert
- Message: Enter a main content of the Alert.

2.7.7 Service Terms

The Service Terms sidebar displays the Service Level Agreement (SLA) assigned to the Service Request and provides details of key dates.

SERVICE TERMS	⊘!
SERVICE AGREEMENT	
Warranty	~
PROGRESS 40%	AFFECTED USERS
SERVICE DESK	OPEN DATE 09/08/20 15:32
DUE DATE	REMAINING
09/09/20 15:33	14 Hrs, 20 Mins (60%)
LAST ACTION 09/08/20 15:33	TIME RECORDED

By default the application calculates the Due Date based on the Priority of the SLA assigned to the Customer, Organizational Unit or Item. The email reminders and escalations are then managed accordingly. If an SLA is not associated with the Service Request via the Customer, Org Unit or Item, the system default SLA will be automatically assigned to the Service Request but can be manually adjusted by the Technician. Once the Workflow is moved from the default Open State, the SLA can no longer be edited.

Service Terms	
Agreement	Displays the Service Level Agreement assigned to the Request. The service level is derived from either the Customer, Organizational Unit or Item.
	When Contracts are not enabled, the Agreement field can be edited, when the Request is in edit mode.
Progress	Visually displays how the Request is tracking against the assigned SLA. The grey progress bar is gradually filled in based on the status of the SLA:
	- Workflow is in an SLA paused State. Triggers will not fire.
	- Workflow is in an SLA timers on State. Triggers will fire.
	- Workflow is in an Exit State and the SLA has been successfully maintained.
	- Assigned SLA has been breached and Workflow is in an Exit State.

Service Terms	
Open Date	The open date field is automatically populated when the Request is created.
Due Date	By default the application calculates the Due Date based on the SLA Target for the Priority assigned to the Request, and email reminders are sent accordingly.
Fix Date	Auto-filled when the Request moves into a Workflow State that is defined as meeting the SLA Resolution Time.
Remaining	Auto-filled and visible when there is SLA time remaining.
Time Overdue	Auto-filled and visible when the SLA is overdue.
Close Date	Auto-filled when the status of a Request is set to Closed. This date is fixed.
Resolution Time	Auto-filled with the number of minutes it took for the Request to move from the first SLA active state to a Workflow State that is defined as meeting the SLA Resolution Time.
Last Action Date	Auto-filled when Done or Save is selected after the Request has been modified or opened in edit mode. As changes may be made to a Request after it has been Closed, this date may fall after the Close Date.
Time Recorded	Displays the total time spent on a request that is specified by a technician.
	NOTE: The Automatic timer is not applicable for the redesigned request page.
Affected Users	Number of Customers assigned to the Item associated with the Request.

NOTE: Each User can customize the date format within the My Account sub-menu option. To change the date format go to Home > My Account, click Edit and select the preferred format.

2.7.8 OLA/UPC Configuration

Underpinning Contracts (UPC/UC) are used to manage support services provided to the Service Desk by external service providers. These Contracts ensure the external parties maintain their service obligations to the Service Desk, which ensures the Service Desk meets the SLA expectations of its Customers.

UPC CONFIGURATION		
UPC		
UPC_Automation_1		\sim
REMAINING (%)	DUE DATE	
69 %	09/13/20 19:35	

• UPC: Displays the UPC assigned to the Request. The UPC is derived from either the Customer, Organizational Unit or Item.

When Contracts are not enabled, the Agreement field can be edited, when the Request is in edit mode.

- Remaining: Auto-filled and visible when there is UPC time remaining.
- Due Date: By default the application calculates the Due Date based on the SLA Target for the Priority assigned to the Request, and email reminders are sent accordingly.

2.7.9 Solutions

The Solutions panel displays the proposed solutions and workarounds that are applicable to the request. It also displays the applied solution, workaround or backout procedure.

Solutions are Knowledge Base Articles that could be existing in the Knowledge Base or that could have been generated as fixes for the request.

Workarounds are temporary fixes applied to a request.

SOLUTIONS (3)		+NEW
Search SolutionSolutionO Workaround		Q
SOLUTION: hardware_Article_with_Attachm ent_1 public article with attachment 1	100%	APPLY
SOLUTION: hardware_Article_with_Attachm ent_2 public article with attachment 2	100%	APPLY
SOLUTION: hardware_Article_with_Attachm ent_3 public article with attachment 3	100%	APPLY

To view the details, you can click the Solution, Workaround or backout procedure. The article will be displayed in a pop-up window.

Solution						
📐 PDF						_
rticle #: 24						
FI	ags					
1	Type Article					
Visi	bility Everyone					
St	atus Published					
Item Categ	gory Hardware					
Classifica	ation General					
Item Ty	pes					
	Visual and Imaging Devi	e				
Ite	ms					
Cont						
	Title hardware_Article_with	Attachment_1				
Sumn	public article with attach	nent 1				
Con	tent public article with attach	nent 1				
C	ated 09/12/20 21:55					
	ised 09/12/20 21:55					
		200012 app bit poyall com	/LiveTime/WebObjects/LiveTime	woodwo/Article\/iew?ki	ald-24	
		-	Live time/webObjects/Live time	e.woa/wa/Anicieview?ki	Jaiu=24	
	tics Views:0 Last: Votes:					
Related	Attachments [1]	History				
	ile Description		≣ Size	Date	⊽ Public	
A	ttachment.docx		26 KB	09/12/20 21:56	a	
			1 of 1 Results			

In the Solutions panel, you can perform the following actions:

- Search: In the Search field, specify any keyword. Depending on the specified keyword, results will be displayed.
- Apply Solution or Workaround: To apply a solution or workaround, click the Apply button.

Relevance is displayed along with All Solutions and Workarounds. Based on requirements and relevance, you can apply the solution or workaround.

• Create Solution, Workaround or Backout procedure: To create a Solution, Workaround or a Backout procedure, click the New button in the panel, and then select the required option.

Specify all the required details in the new pop-up window and then click Save.

You have an option to remove the applied Solution, Workaround or Backout procedure. To

remove, click the **APPLIED** icon.

If you have already applied a solution, workaround or Backout procedure, then you will not be able to link other solution, workaround or backout procedure. To add new solution, workaround or backout procedure, remove the existing solution, workaround or backout procedure.

Flags													
	Solution												
	Assigned	Request											
em Category	Published Hardware												
Classification													
Item Types													
ltems													
Content													
Problem	Parag	raph	\sim	System	n Font 🗸 🗸	12pt		\sim	8	S	$\langle \rangle$	K 3	
	<u>A</u> \	В	Ι	<u>₽</u>	i≡ ~ i	~ 99	≡	Ξ	⊒				
									_				
	verif	y publ	lic artic	le soluti	on in the p								
	verif	y publ	lic artic	le soluti							9 WO	RDS //	
Solution			lic artic	soluti	on in the p					ž	9 WO <>	RDS //	
Solution	Р	raph	~		on in the p	12pt	olution	list	S	×			

The note saved as a solution will also be displayed here. You also have an option to create a Knowledge Base out of that by clicking on that solution and selecting "Create Article".

Some of the options might not be applicable based on certain criteria.

2.7.10 Linked Requests

The Linked Requests panel lists the requests that are linked to the request. In the Linked Request panel, you can link requests or group with the current request. The requests that are already linked with the request will also be displayed in this panel.

S	LINKED REQUEST (3)	NEW
	Search Requests to Link	L
	Request O Group	
	C 100369 X	^
	Creating an incident request to verify propose solution functi onality through CT Automation	L
	R 100366 🔀	
	Creating an incident request to verify propose solution functi onality through CT Automation	
	100365 🔀	
	Creating an incident request to verify propose solution functi onality through CT Automation	*

In the Linked Request panel, you can perform the following actions:

- To link a new request, click Link New and then select the required request type. This will create a new request of selected type, using the information for the current request, and will link with the current request.
- To link with an existing request or group, specify the respective ID in the search field and then click the link icon.

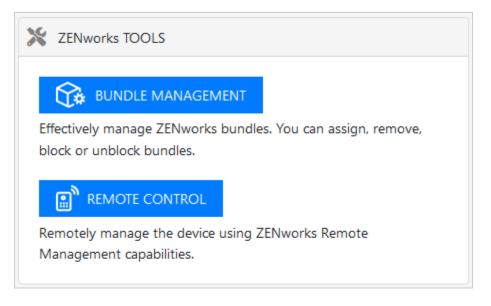
Similarly, you can link groups with the request. If the request is not part of the group, the after linking the request, the request will be added to the group.

• To unlink a request, click the unlink icon associated with the request.

NOTE: If the current requests is part of a group, then linking with group, or with existing request that is part of another group is not applicable.

2.7.11 ZENworks Tools

The ZENworks Tools panel enables you to perform Bundle Management and Remote Control operations. Depending on the privileges, the tools will be displayed.



- Bundle Management: Using this option, you can assign, remove, block and unblock bundles.
- Remote Control: Using this option, you can remote control devices associated with the request.

2.7.12 Customizing Columns

To customize the displayed columns, you can perform any of the following actions:

- Reorder Columns: To reorder columns, you can drag and drop the required column to the required position. The reordered column changes will be saved and displayed when you revisit the page.
- Resizing Columns: To resize the column width, you can drag the required column edge left of right. The resized column changes will not be retained.
- Add or Remove Columns: To add or remove columns, click the icon, and then select the required field that should be displayed.

🕑 Request #	Item Category	🕑 Open Time	# Attachments	Identifier	Last State Change
Close Date	ltem	Priority	Warning Sent	Urgency	Time in State
< Created	Item Status	Classification	🔁 IP	Impact	
🕑 Customer	🛃 ltem Type	Item Room	Workflow	Description	
Org. Unit	Last Action	Status	Item Criticality	Client Room	
🛃 Due Date	Logged by	Customer Solution	 Logged Time (mins) 	Source	
🛃 Subject	New Note	🗹 Technician	SLA	Restore Date	
Layer	New Task	🛃 Team	Escalation	Customer Item	
🛃 Group	Open Date	# Notes	🗌 % SLA Remaining	Customer Item Type	

NOTE: Minimum 8 and maximum 15 columns can be added in the display grid. The added or removed column changes will be saved and displayed when you revisit the page.

From ZENworks Service Desk 8.3.1 onwards, minimum 2 and maximum 15 columns can be added in the display grid.

• Search: To search an item within a column, specify the keyword in the search field provided below the field name.

Wy Teams Tasks	s (Ali) T	•	B															۵-
0		н.	© REQUEST #	1	© CREATED	OPEN TIME	B DUE DATE	e status	* PRIORITY	a ITEM TYPE hardware type 2	TEOINCIAN	O TEAM	#-CUSTOMER	a GROUP	SUBJECT		£°	
o: I			100176	L	10/01/20 07:40	6 Days 14 Hrs	10/02/20 07:50	Pending	Urgent	hardware type 2	Mukesh Kushw	incident_team	Sukanta Dash		test	÷ù	$J^{(i)}_{i}$	I.

2.7.13 Filters

On the left-hand side of the Request page, the Filters panel is displayed. Using the options available in this panel, you can filter the unrelated data so that only the required data is displayed in the grid.

EDIT FILTERS		
NEW		G
GENERAL		+
DATE		+
REQUESTOR		+
ITEM		+
	SAVE FILTER	APPLY

Following are some of the actions that can be performed in this Filters panel:

- Apply Filters: After making the required modifications to the filter panel, click Apply to view the results.
- Reset Filter: To reset the data displayed in the grid and clear the filter fields, click the C icon.
- Save Filter: After modifying the filters, if required, you can save the filter for future use. To save the filter, click the Save Filter button.
- Load Saved Filters: To load or apply the saved filters, click the filter list panel, and then select the required filter.
- Share Filter: To share the filter, click the share icon, and then select the required option in the displayed pop-up.

SHARE FIL	TER.			×
Share	● No	○ With Role	○ With Team	
			CANCEL	SHARE

The available options are:

- No: Select this option to stop sharing the filters that was shared earlier.
- With Role: Select this option to share the filter with those who have same roles
- With Team: Select this option to share the filter with your team.
- Delete Filter: Click the Delete button to delete the filter.

NOTE: Only the custom filters can be shared and deleted.

Му	Teams Tasks (All) 🍸 🔹 📑					
	My Tasks (Active) [sys]					
	My Tasks (All) [sys]					
	My Teams Tasks (Active) [sys]					
	My Teams Tasks (All) [sys] 🛛 🔺					
	Demo_Filter					
<	Current Filter: *					

This section of the filter includes the following options:

- "General Filters" on page 355
- "Date Filter" on page 356
- "Requester or Requestor Filter" on page 356
- "ITEM Filter" on page 356

General Filters

• Type: In this field, select the type of the request. The available options are Service, Incident, Problem and Change.

- Scope: In this field, select if you want to view My Tasks or My Team's Tasks.
- Request#: In this field, specify the request number.
- Group Name: In this field, specify the name of the group.
- Logged By: In this field, specify the a name who logged the request.
- Team: In this field, select the required team. To select multiple teams, press and hold the Ctrl key, and select the required options.
- Status: In this field, select the status of the request. The available options are Active, Inactive and All.
- Priority: In this field, select the priority of the request. The available options are Urgent, High, Medium and Low.

Date Filter

- Action: In this field, select the required action. The available options are Reported Date, Closed Date and Reported & Closed Date.
- Range: In this field, select a date range. Following are the available options.

Start Date

End Date

- Recent: In this field, select how recent requests should be displayed. The available options are Last Week, Last 2 Weeks, Last 30 days and Last 3 Months.
- No. Of days Since Last Status Change: In this field, select a date to view the request since their last status changed.

This option will not provide accurate result, if the status was changed before upgrading to ZENworks Service Desk 8.2.

Requester or Requestor Filter

- First Name: In this field, specify the first name of the requester or Requestor.
- Last Name: In this field, specify the last name of the requester or Requestor.
- Email: In this field, specify the email ID of the requester or Requestor.
- Org. Unit: In this field, specify the name the Organizational Unit, be it a Company or Department with which the Customer is associated.
- Room: In this field, specify the location of the request.
- City: In this field, specify the name of the city.
- + Location: In this field, specify the location details of the requester or requestor.

ITEM Filter

- Selected By: In this field, select an option, who had selected the item. The available options are Technician or Customer.
- Item Number: In this field, specify the item number.
- Room: In this field, specify the room to which the request belongs.
- Category: In this field, select the category to which the request belongs.

2.8 Create Quick Request

The Create Quick Request icon is displayed in pages of the Requests tab.

To create a quick request, click the 🕒 icon displayed at the bottom of the page.

The Create Quick Request window is displayed as shown below.

ATE QUICK REQUEST			
D CUSTOMER*			
SEARCH CUSTOMER		Q	
CREATE REQUEST USING: () AN ITEM () A QUICK CALL TEMPLATE			
EQUEST TYPE			
Incident		LARCH ITEMS	
		al 11/10E: Unit-nown	
SUBJECT			
aragraph v v V B	0 🛙		
L ~ B / U ↔ H ~ H ~ H = = =			
nter a detailed description, paste screenshots and add the required liles as attacher	sents.		
			C WOR
		To add attachments, click here, or Drag and Drop files. (Max say 500 MB per file)	
			CANCEL CREATE QUICK REQUE

In the Create Quick Request window specify the following information:

• Search Customer: In the Search Customer field, specify the customer name and then select the required customer from the displayed result.

Only one customer can be added for the request. If you try to add one more customer, then the previously added customer will be replaced with the new customer.

• Create Request Using: You can create a request either using an Item or a Quick Call Template.

Based on requirements, select An Item or A Quick Call Request:

If you select An Item, then following options are displayed:

- Request Type: In this field, select the relevant request type. The available options are: Incident, Service, Problem and Change.
- In this field, specify the required category of the item. Click to view Advanced Item Search. In the Advanced Item Search pop-up, you can search items based on various parameters.

ADVANC	ED ITEM SEARCH							×
SEARCI	GORIES H CATEGORIES			Q	SEARCH ITEM TYPE			Q
ITEMS (5)						Show Selected Entries on	ly 🗹 Show Active Ite	ems Only Show Assigned Items Only
								IDENTIFIER
	ZEN_BUN_EMPTY	Windows Bundle				tr	nstalled	
	100006	New Type - Service				A	vailable	
	100005	Service Desk				A	vailable	
	100003	Service Desk				A	vailable	
	100002	Service Desk				A	vailable	
			Show 10 ¢ entries					FIRST < 1 > LAST
								CANCEL SELECT ITEM

Only one item can be added for the request. If you try to add one more items, then the previously added item will be replaced with the new item.

- Description: In this field, specify a description for the request.
- Subject: In this field, specify a subject for the request.
- Attachment: If you want to provide any attachments with this request, you can either drag and drop the attachment or click the Attachment field, and then upload the required fields.

If you select the A Quick Call Request option, then a list of Quick Task templates (Quick Calls and Group Templates) will be displayed. In the search field, you can search for the required quick call template.

To create a request using a quick call or group quick call temple, click the required quick call or group quick call. Specify the required information, and then click CREATE QUICK REQUEST.

2.9 Create Request

To create a Request, click the icon that is displayed in the menu bar.



The create request page is displayed as shown in the following image.

				# RELATED REQUEST
OD CUSTOMERS ⁴		REPORTED BY	SELECT A REQUEST TVPE	47 REDATED REQUEST
SEARCH CUSTOMERS	Q	SLARCH REPORTED BY	Vor tems Incident	There is no related request.
			For Knowledge Base (Service Request) Quick Call	PROPOSED SOLUTION(S) FOR SELECTED ITEMS
REQUEST ADDITIONAL DETALS				
Select Dynamic Form				There is no proposed solution.
SULECT				
5000,1				
Paragraph v Arial v 10pt v 🖉	2 o 11			
<u>∧</u> × B <i>I</i> ⊻ G ⊞ × ⊞ × ₩ ■ ∓ च				
<u>A</u> ∨ B <i>I</i> ⊻ G ⊞ ∨ ⊞ ∨ ₩ ■ ∓ च				
<u>∧</u> × B <i>I</i> ⊻ G ⊞ × ⊞ × ₩ ■ ∓ च				
<u>A</u> ∨ B <i>I</i> ⊻ ⊕ ⊞ ∨ ⊞ ∨ ₩ ⊯ ₩ ₩				
<u>A</u> ∨ B <i>I</i> ⊻ ⊕ ⊞ ∨ ⊞ ∨ ₩ ⊯ ₩ ₩				
<u>∧</u> × B <i>I</i> ⊻ G ⊞ × ⊞ × ₩ ■ ∓ च			overos "	
<u>∧</u> × B <i>I</i> ⊻ G ⊞ × ⊞ × ₩ ■ ∓ च			9 MORES /	
<u>A</u> ∨ B <i>I</i> ⊻ G ⊞ ∨ ⊞ ∨ ₩ ■ ∓ च	tadmarts.	x Drag and Drop files. (May size 500 MB per file)	evides "	
<u>A</u> ∨ B <i>I</i> ⊻ G ⊞ ∨ ⊞ ∨ ₩ ■ ∓ च	tadmarts.	r Dag and Drop files, place pay 500 kH per file	9 10055 /	
Δ > B / U Δ \equiv > \equiv > $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$	tadmarts.	r Drag and Drap files. (Mar size 500 MF per file)	evates "	
Δ > B / U Δ IE > IE > II \mathbb{R}^{-1} IE > II \mathbb{R}^{-1} IE = II Error a detailed description, partie screambers and add the regulard lines as a	tadmarts.		evates "	
▲ > B / U ↔ IE > IE > II + II ← IE > II Enter a detailed description, partie scheensburts and add the regulard files as a REQUEST LINGENCY	tachmerk.		9 votes ,	

In the Create New Request page specify the following information, and then click Create Request:

• Add Customer: In this field, specify the customer name and then select the required customer from the displayed result.

More than one customer can be added in this field, specify the name and from the displayed results select the required name.

ADD CUSTOMERS*		REPORTED BY		SELECT A REQUEST TYPE
SEARCH CUSTOMERS C	ζ	SEARCH REPORTED BY	Q	For Items For Knowledge Base (Service Reputit) Incident
E 🚨 KAMAL KUSHWAHA				
E 🕹 SUKANTA DASH				

• Reported By: In this field, specify the name and then select the required name who has reported the issue.

Only one name can be added. If you try to add one more entry, then the previous entry will be replaced with the new one.

- Select A Request Type: In this field, you can either select For Items or For Knowledge Base (Service Request)
 - For Items: Select this option to create a request on an Item. From the below drop-down, select the required request type. The available options are Incident, Service, Problem and Change.
 - For Knowledge Base (Service Request): Select this option to create a service request on a knowledge base.

NOTE: If you have updated any customer field, and when you change request type in For Items or change the option For Items to For Knowledge Base (Service Request) and vice versa, then the updated data will be cleared from the customer field. Hence, it is recommended that you do not make any change to the Select A Request Type field after updating the customer information. However, the select Customer and Reported By fields will be retained.

To view the customer information, click the + icon. Depending on the option selected in the Select A Request Type option, the items or knowledge base articles will be listed.

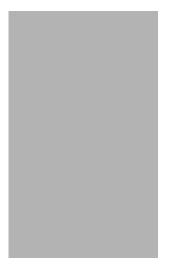
In the customer information panel, you can either use Item Search, or Select Categories and Select Item Types fields to search for the required item.

• Select Categories: In this field, you can specify the categories to search for the item categories that you want to add to the request. After selecting categories, list of active category custom fields will be displayed. These fields can be used to further filter the items list.

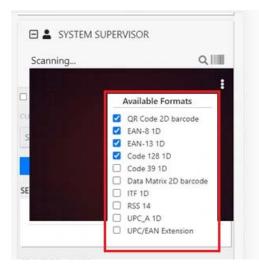
NOTE: You can select multiple categories. For each selected category, the active category custom field section will be displayed.

- Select Item Types: In this field, specify and search for the Item type. If one or more categories are selected, then you can search item types associated with the selected categories.
- Item Search: In this field, search for the required item. This field is displayed on the right-top of the customer information panel. After selecting, if items are available in the list, then the item will be selected automatically. If the items are not selected, then the item will be selected and added to the top of the list.

On the mobile devices, a barcode will be displayed. Click the barcode to view the list of supported scanner formats, select the required format check-box.



The following image displays the supported barcode formats:



Depending on the search criteria, the items will be listed. However, using the following fields, you can further minimize the number of item displayed.

- Show Active Items only: Select this check-box to list all the active items. By default, this option will be selected.
- Show Assigned Items only: Select this check box to list all the items assigned to the logged in user.

After selecting the required items, on the right-hand Related Requests and Proposed Solution for Selected Items are displayed.

Clear Fields: Click this button to reset the customer request data.

Pre-populate below field with information of customer: If you have selected more than one customer, and if you want to copy the information from one customer to another, select this check box and from the drop-down, select customer from whom you want to copy the information.

ADD CUSTOMERS*	REPORTED BY			SELECT A REQUEST TYPE
SEARCH CUSTOMERS Q		SEARCH REPORTED BY	٩	For items Incident For Knowledge Base (Service Request) O Quick Call
E L YASHWANTH BELLUR				
REQUEST ADDITIONAL DETAILS				
Select Dynamic Form				

E 🕹 YASHWANTH BELLUR		ITEM SEARCH
Pre-populate below field with inform	nation of customer: Select a customer from the list CLEAR FIELDS	
SELECT CATEGORIES	SELECT ITEM TYPES	
SEARCH CATEGORIES	Q. SEARCH ITEM TYPE	٩
ITEMS (1)		Show Active Items Only
D 100002	Service Desk	Available
CLASSIFICATION:	×	
ielected Items: 100002 ×	DISPLAY 10 4 RECORDS	FRST < 1 > LAST
۰	• @ ybellur@nsd.com	•
ARGET DEVICES		
Select Target Device	•	

After selecting the Items from the search results, select the Classification field, custom fields, if any, and then specify the following fields.

If the classification field is not selected, then the default option will be selected.

- Additional Information: In this field, select the location and email ID or phone number of the customer.
- Target Devices In this field, select the target devices.

If you do not want to use the same customer information from other selected customers, then manually update the customer information and then specify the following information:

Request Additional Details

- Subject: In this field, specify a subject for the request.
- Description: In this field, specify a description for the request.
- Attachment: In this field, to add attachments, you can either drag and drop files or click the field to upload the files.

After adding the attachment, depending on the type of file, icon will be associated with the attachment.

To add attachments. elick here. or Drag and Drop files. (Max size 500 MB per file)					
AthKey.png	2id.bt	Doc Inputs, Azure to	3001_MI-00985679_00	bi-report.htmi	zenworks_2020_setf_b

• Request Urgency: In this field, select the request urgency. Depending on the urgency, the priority will be assigned to the request.

NOTE: Depending on the selected Urgency level, the priority for the request will be assigned. The priority for a request is always derived and cannot be added manually selected.

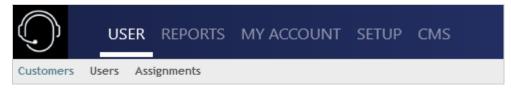
If Request Urgency is not selected, then the default urgency will be selected.

Very Low Low	Moderate	High	🗸 Urgent
--------------	----------	------	----------

After specifying all the details, click Create Request.



3.1 User Tab



The User tab is used to create, modify details for:

- Customers
- Users
- Assignments

Users can be assigned one of the following Roles:

- Technician
- Supervisor
- Partner

and one or more of:

- Administrator
- Customer
- Finance
- Manager

When a User has more than one Role, they can switch between Roles easily by selecting the Setup, User or Customer link displayed in the sub-menu bar next to their login Name. See Changing Roles.

3.1.1 User Availability

The User List View includes the User Availability status by default, this is based on work hours configured in the Schedule tab of the User and their Vacation Status.

The following icons may be displayed in the List View:

Available
The User is not on leave and is available for request assignment based on their assigned work hours.

Available	
	The User is not on leave but is not available for request assignment based on their assigned work hours.
	Or, if no hours are set within the Schedule tab when the "Define Work Hours" is enabled within Admin>Setup>Privileges>User screen and the User is not on vacation, the system will consider Users to be unavailable.
	The User has the On Vacation option enabled.

An Administrator can synchronize the system with a Directory Server to import User details. Imported Users can only be modified through the appropriate server console, not via the application. See Authentication.

Alternatively, the Administrator can also import Customers via a .CSV file.

NOTE: If new User accounts are to be created directly in the system, new Administrator Users can only be created within the User tab of the Administrator Portal.

3.2 Customers

3.2.1 Customers

The Customers tab is used to create, modify and delete Customer Accounts within the system.

A Customer is a User assigned the Customer Role. They can be internal or external to the organization. Customers can raise requests, update, and if relevant approve requests, through the Customer Portal or via email. Service Desk staff can also generate requests on behalf of the Customer.

Customers can be created within this tab, imported from a CSV file, or imported and synchronized using a directory server. See Authentication.

NOTE: If Customers are imported using a directory server and the mixed mode authentication method is disabled, the option to create Customers within the Users tab is not available.

Customers							
New $ hos$	earch Bulk	Export: Current Page 💌	°,	Filter:	All Customers [sys]	Display: 100 💌	
Customer Name	Email Address	Phone	Org. Unit	Country	Roles	Web Access	≣
Michael Angelo	michael@nsd.com		Micro Focus - Head Office		Customer	Enabled	~
Jason Blackett	jason@nsd.com		Micro Focus - Information Technology		Customer	Enabled	

If using Organizational Units (configured by a Supervisor User) or Customer Custom fields (configured by an Administrator User), it is recommended that these be configured prior to creating Customers.

See: Creating a Customer Account (Internal Authentication)

See: Importing Customers Using a CSV File

See: Importing Customers using LDAP/Active Directory Server.

3.2.2 Creating a Customer (Internal Authentication)

Use the Customer Information Tab to view and edit Customer details. It is also possible to set Customer Roles, line managers and default login details.

Creating a Customer Account

When creating a Customer, the following four tabs are available:

- Contact
- Aliases
- Items
- Contracts

Information Tab

This tab is used to enter contact information for a Customer, when creating a new customer account.

NOTE: If Custom Fields are to be created for Customer Information it is recommended that the Administrator complete the configuration prior to creating Users. See Custom Fields.

To create a Customer account using internal system authentication:

- 1. Select User>Customers
- 2. Select New
- 3. The Customer Information screen appears, with the following fields:
- 4.

Customer Information Fields

Access	
Title	If enabled, select the appropriate title from the drop-down options. (This field is displayed if the Enable Titles option is set to Yes in the Admin>Setup>Setup>Privileges>Customer tab.)
First Name*	Customer's First Name.
Last Name*	Customer's Last Name.
User Name*	The login User name credentials for the User. If this is imported via LDAP or Active Directory, it can not be edited. Otherwise, enter a Username. Note that the value must be unique.

Customer Information Fields

Password/ Confirm Password	The Default Password is set to the Customer's email address or a random string can be enabled by the Administrator in Setup>Privileges>System. See Authentication.
	Customers can reset their password from the Customer Portal, or a Service Desk User can reset it in the customer account details using the Reset Password button through the Customer> Information tab.
Web Access	Web Access allows Customers to view their account information and Incidents via the Customer Portal.
Contact	
Primary Email*	The Customer's Email address. System messages are sent to this address.
Send To	This field becomes when alternate email addresses are entered on the Aliases tab.
	Select the most appropriate email address to be set as the default address applied to Customer correspondence. When the Send To field is set to an alias address, the Primary Email address is not included in the cc list, unless specified in the request Information tab cc list.
Org. Unit	The Organizational Unit, be it a Company or Department with which the Customer is associated.
	(Organizational Units are created by the Supervisor, in Users >Organizational Units.)
Line Manager	If relevant, assign a system user with the Customer Role who can approve/reject requests made by this Customer, as part of the Change Management or Service Request approval process. (This information can not be edited if the line manager details are set by the LDAP synch.)
Room	This field is visible if the Display Rooms option is set to Yes in the Setup>Privileges>Customer screen and there are Room details configured in Organizational Units.
Address 1	First line of Customer's address.
Address 2	Second line of Customer's address.
City	Customer's city details

Customer Information Fields	
State	Customer's State details. Options will be displayed for the State, once the Country is selected, if Regions are configured for the Country in the system.
Zip/Postcode	Customer's area code.
Country	Customer's country. The country selected will determine the time zone and state options for the Customer.
Email Locale	Set the default language for email correspondence.
Phone	Enter Phone details.
Fax	Enter the Customer's fax number, if relevant.
Pager	Enter the Customer's pager details, if relevant.
Mobile	A mobile number can be entered as a contact number or for use with SMS (Short Mail Service message). An SMS can be sent to notify the assigned Technician when a request is created.
	SMS Messaging options:
	 From the drop-down list, select the SMS Service Provider.
	 Override SMS Address. If your service provider does not appear in the list, click this checkbox and enter an alternate Service Provider.
SMS Override	Enter SMS Gateway override details for the Customer, if a number other than the one entered in the Mobile field is to be used to send/receive updates via SMS. Enter the complete SMS details in email address format, i.e., 000777891@smsgateway.provider.com.
Partner	
Customer of	Nominate the Partner Organization associate with the Customer. This is an external service provider who manages the Customer's request.
	(The option is enabled by the Administrator in Setup Privileges> Use >Edit Customer Partner. The Partner Organizations are defined by the Supervisor in the User>Partner Organizations tab.)
Locale	

Customer Information Fields	
Time zone	The Customer automatically adopts the default Timezone set for the system. However, the Timezone can be manually adjusted here for the specific Customer.
Last Login	Auto-populated with the date the Customer last logged into the system.
Host	The IP address of the last login for the Customer
GPS	The GPS coordinates of the last known address for the Customer. (This field is displayed when the Record GPS option is enabled in Admin>Setup>Setup>Privileges>Customer tab.)
Roles	
Current*	Multiple Roles can be assigned to a User. Select other Roles the Customer will use, by ticking the check boxes.
	Note: If the Technician Role is selected, a Supervisor must be allocated.
Default Portal	The Default Portal is the user interface a Customer, who is assigned multiple Roles, accesses by default when they log into the system.
	NOTE: If the Users Default Portal is set to Customer, the User details will not be accessible in the Users list, but included in the list within the User>Customer tab.
Details	
Notes	Click on the field to enter any Customer relevant information.

* Denotes mandatory fields

1. Click Done.

Emailing Customers Credentials

🕎 Email

To email a newly created Customer details regarding their system log in details, click the Email button within the Customer Information screen. If Random Passwords is enabled, selecting Email will reset the Password and forward the details to the Customer. If Password Questions is enabled in Setup>Privileges>System, selecting Email will send a link to the Customer directing them to a page that includes the security questions set for their account and reset the password based on the answers provided. Customers must complete this process within an hour of the email being sent.

vCard Button

🖳 vCard

Select this option to download and open the Customer's information in an electronic business card format, to email or save outside the system.

Aliases Tab

The Aliases tab is used to enter additional email addresses. Email addresses in the Aliases tab allow the Customer to send emails to the System or Team support addresses from more than one address. The system creates requests from these emails. Notifications for requests created using an address in the Aliases tab, are sent to the main email address and cc'd to the alias address that was used to create the request.

When one or more alias email addresses have been created for a Customer, a Send To field is displayed on the Customer Information screen, which allows the most appropriate email address to be set as the default address applied to Customer correspondence. When the Send To field is set to an alias address the Primary Email address is not included in the cc list, unless specified in the request Information tab cc list.

Customer Information		
Contact Aliases	Items Requests Contracts	
Add Remove	Jaso	on Blackett
🖾 Email		<u>à</u>
ingo1@nsd.com		
	1 - 1 of 1 Results	
	Do	one

To add an alias email address:

- 1. Select User>Customers
- 2. Click on the Customer name

The Customer Information screen appears.

- 3. In the Information tab, click Edit
- 4. In the Aliases tab, click Add
- 5. Enter an alias email address
- 6. Click Save
- 7. Select Done

When an alias email address has been created for a Customer, a Send To field is displayed on the Customer Information screen, which allows the alias email address to be set as the default address applied to Customer correspondence.

To remove an alias email address, in Edit mode, tick the checkbox next to the relevant email address and then click Remove.

Items Tab

The Items tab defaults to list of Items assigned to the Customer. To view Shared Items, tick the Include Shared option. To view the Item details, select the Item Number hyperlink. Select the Excel button to output the Item List to Excel format.

Customer Information				
Contact	Aliases Ite	ems Requests Contracts		
Add	Remove 🛛 🛛 Exce	Jason Blackett		
		Include Shared Display: 10 💌		
🖾 Item No.	Item Type	≣ Team ■		
srm-tst-nsd-222	Dell Latitude E6430	Device-Incident Team		
Notepad++	Windows Bundle	Device-Incident Team		
Jason-Iphone6	lphone 6	Device-Incident Team		
Microfocus - eLearning	Website Services	Device-Incident Team		
Email Service	Email Services	Device-Incident Team		
	1 - 5 of	5 Results		
		Cancel Save		

To add an Item:

- 1. Select User>Customers
- Click on the Customer name The Customer Information screen appears.
- 3. In the Information tab, click Edit
- In the Item tab, click Add The Find Item editor is displayed.
- 5. Search for the relevant Item

For details regarding an advanced Item search see: Advanced Search.

6. Select the Item # hyperlink

The selected Item will be associated with the Customer.

- 7. Click Save
- 8. Select Done

To remove an Item, in Edit mode, tick the checkbox next to the relevant Item and then click Remove.

Contracts Tab

The Contracts tab displays a Customer's current contract status. A Customer can be assigned an SLA or Contract when Billing>Contracts is enabled. A Customer can only have one active Contract.

tomer Information				
Contact	Allases	Items	Contracts	
Edit				Mary Calde
SLA Details				
Service Level	Gold			
				Done

To create a new Contract for a Customer:

- 1. Select User>Customers
- 2. Select the Customer Name
- 3. Move to the Contracts tab
- 4. Click Edit

The system will display the Add button in the Customers tab

Customer Information					
Contact Ali	ases I	tems Requ	ests Co	ontracts	
Edit				Pa	ul Pedron
Contract					
Service Level					
Contract # No Contra	ict Assigned				
			Cust	omers Item	5
Contract #	SLA	Invoice #	Start Date	End Date	■
		0 - 0 of 0 Results			
				Do	ne

5. Click Add

The SLA options are displayed.

6. Select a Service Level from the list

When selected, the screen expands to display the Time, Start and End date fields.

Customer Information	I					
Contact	Aliases	Items	Requests	Contracts		
Contract						
Invoice Number	100032					
Service Level	SLA					
	Incident		•			
	Priority	Response Time	Restoration Time	Resolution Time	24 x 7 support	Alert
	Urgent	6 Hours	12 Hours	24 Hours	Yes	None
	High	12 Hours	24 Hours	48 Hours	Yes	None
	Medium	18 Hours	36 Hours	72 Hours	Yes	None
	Low	24 Hours	48 Hours	96 Hours	Yes	None
Contract Type	Per Customer					
Time	Support Hours	5 💌				
Support Hours						
•						
Start Date	01/06/16 14:1					
End Date	01/06/17 23:5	9				
Notes						
Price	\$100.00					
	\$0.00					
Taxable						
Total Cost						
				Canc	el	Save

7. Define the Contract Time period

For the Per Customer Contract Type the Time Period for the Contract can be defined:

If *Subscription* is selected, the Start and End Dates are automatically completed by the system, but can be edited if required.

If *Time Limited Subscription* is selected, the Support Hours field is displayed and the number of support hours purchased by the Customer should be entered. Also, the Start Date and End Date fields should be completed manually, entering the length of time for the subscription period.

If *Support Hours* is selected, the number of support hours purchased by the Customers should be entered

If *Support Hours By Month* is selected, define the number of Support Hours covered per month and on which day of the month the Contract is designated as the Rollover Day. The Start Date and End Date fields are automatically completed as an annual contract subscription but can be edited, as required.

If the Start Date is set as a future date, the Pending Contract status is assigned. See Pending Contracts.

- 8. Click Save
- 9. Click Next to continue

The system reverts to the Contracts summary screen.

Customer Inform	ation							
Contact	Aliases		Items	Request	5	Contracts		
							N	lichael Angelo
Contract								
Service Level	Warranty							
Contract #	2 😧							
Contract Type	Subscription							
Invoice #	100002							
Start Date	01/05/16							
End Date	01/05/17							
Expires	1 Year 0 Day							
				Customers		Items		Audit
🖾 Contract # 🗟	🛙 Туре	SLA	≣ Invoid	e # Start D	ate	End Date	≣	Add
2	Per Customer	Warranty	1000	01/05/1	16 11:59	01/05/17 23:59	9	Delete
			1 - 1 of 1 Resu	Its				
						Cancel		Save

10. Click Save. Click Done.

To delete a current Contract select _____ next to the Contract Number. Alternatively, to delete a current or queued Contract, within the Contract>Customers tab check the field next to the relevant Contract # and select the Delete button.

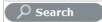
The Items tab within the Customer>Contracts screen is used to list all the Items with a Contract that are owned by a Customer.

The list of requests with the time recorded against the Contract is displayed within the Audit tab. The Summary view displays the list of requests with total number of Notes and Time allocated to the Contract, while the Detail view includes a breakdown of all Notes and the associated time related to each request.v

Searching for Customers

To search for Customers within the Users>Customers tab:

- 1. Go to Users>Customer
- 2. Click



3. Enter any known Customer details

Or, for a complete Customer list enter a before or after date for Customer creation

4. Click Search

The results will be displayed in a table with the Customer Name and contact information.

5. Click on the Customer Name to open the Customer Information module or select the Email Address to send an email.

Re-enabling Deleted Accounts

Administrators have the ability to reactivate deleted Customer accounts.

To enable a deleted account:

1. Within the User > Customers tab select

- 2. Toggle the Account Status option to Deleted
- 3. Click Search

A list of deleted Customers is displayed.

4. Select a Customer to re-enable

The Customer information page appears.

5. Click the Enable button, to reactivate the account.

The Customer account becomes active and is available within the system.

3.2.3 Advanced Search Option

To search for a Customer or an Item based on custom field information, use the Advanced Search option. The Advanced Search enables the User to search on Customer or Item custom fields, if they have been enabled.

During request creation the option Advanced Search will be visible within the Find Customer and Find Item screens.

Find Item			
Item Number		Item Type	
Include Global* Items		C All Items	
Active Items Only		All Assigned Items By Customer	
		 By Org. Unit 	
Category			
Mobile Devices	•		
Advanced Search			
Field		Value	
	-	Value	
Resolution Input Type			
Memory			
Memory Card			

To use the search option:

1. Tick the Advanced Search option

For the Find Customer, a custom field list will appear. For Find Item, an Item Category dropdown list is displayed.

- 2. For Find Item, select the Category. Two custom field lists appear
- 3. Select the custom field/s to search on

Find Item Item Number		ltem Type	
 ✓ Include Global* Items ✓ Active Items Only 		 All Items All Assigned Items By Customer By Org. Unit 	
Category Mobile Devices	•		
Field		Value	
Memory Card IMEI Number	•		
			0 6

- 4. In the Value field, enter the details to be searched
- 5. Click to return a list of Customers/Items based on the custom field value entered
- 6. Click the relevant Customer Name or Item number to assign it to the request.

3.2.4 Pending Contracts

Contracts that have been forward dated on creation or that require invoice payment before they can become active in the system, are recorded as Pending Contracts. The list of Pending Contracts can be viewed in the All Agreements filter within the Service Level > Contracts screen.

A Pending Contract will automatically become active in the system on the start date assigned to the contract, if an invoice is not associated with the contract.

To enable a Contract before the start date:

1. Go to the Costs tab of the Item or Contracts tab of the Org Unit or Customer

The tab is available relative to where the contract is being activated. It will be Costs within the Item screen, or Contracts within the Customer or Org Unit Information screen.

2. Select Edit

The Enable button is displayed next to the Pending Contract Field

Item Information	
Information	Details Costs Requests Relationships Outages AMIE Snapshots
Duplicate	년 Print Item # 10000101 (Iphone 6)
Contract	
Service Level	SLA
Contract #	16 😮
Contract Type	Subscription
Invoice #	100039
Start Date	01/12/16
End Date	01/24/16
Expires	11 Days
Pending Contract #	17 Enable

3. Click Enable

The system prompts that the start date will be updated.

4. Click OK

The Contract is created with the new start date.

Contract	
Service Level	Warranty
Contract #	7 😢
Contract Type	Subscription
Invoice #	100016
Start Date	01/05/16
End Date	01/05/17
Expires	1 Year 0 Day

- 5. Click Save.
- 6. NOTE: Requests raised against a Customer/Org Unit/Item with a Pending Contract, are assigned a Pending-No Contracts status. The Item/Customer/Org Unit's Contract needs to be activated before a Technician can work on the request.

3.2.5 Importing Customers using a CSV File

Using a .CSV file (comma-delimited text file), Customers can be imported instantly.

The fields that are required within the text file for Customers to be imported are:

- First Name
- Last Name
- Email address
- Username (unique)
- Password

To import Customers using a .CSV File:

1. Select User>Customers

The Customers screen is displayed.

Customers							
New O	Search Bulk	Export: Current Page 💌	r.	Filter:	All Customers [sys]	Display: 100 🔻	•
Customer Name	Email Address	Phone	Org. Unit	Country	Roles	Web Access	≣
Michael Angelo	michael@nsd.com		Micro Focus - Head Office		Customer	Enabled	*
Jason Blackett	jason@nsd.com		Micro Focus - Information Technology		Customer	Enabled	

2. Click

The Customer Import Wizard appears.

Customer Import
Welcome to the Import Wizard
Select the CSV (Comma separated file) you wish to use for importing data. (Download Template)
The following fields are required:
 First Name Last Name Email Username (Unique) Password
Browse No file selected.
Cancel Upload

To view a template that illustrates the fields the application is looking for and the data types (see below), click the Download Template link on the Customer Import Wizard screen.

The following fields should be visible:

Title (char 128), First Name(char 64), Last Name(char 64), Email Address(char 64), Company(char 64), Department (char 64), Primary Company Contact (int 1), Primary Department Contact (int 1), Address 1(char 128), Address 2(char 128), City(char 64), State(char 32), Postcode/ Zip (char 20), Country(char 64), Phone(char 20), Mobile(char 20), Fax (char 20), Pager (char 32), Username (Unique char 64), Password (char 64), Partners Email (char 64), Custom1(char 256), Custom2(char 256), Custom3(char 256), Custom5(char 256), Notes (clob), Locale (char 5), Line Manager Username (char 128)

The 'char ###' designation in parentheses after each field name signifies what type of data the import utility expects to see in each field. For instance:

- 'First Name (char 64)' means that the first name field cannot exceed 64 characters.
- 'Company Contact (int 1)' means that a 1 in the field will assume the Customer is the Primary Contact for the Company, if the field is left empty or completed with a zero, it is assumed the Customer is not a Primary Contact.
- Fields marked as 'Unique' must be unique in the system
- Locale is the Email Locale for the Customer and will be set to the option applied in the Setup>Email>Setup>Default Locale field if the column is empty
- Line Manager Username is the Customer's Username as recorded in the system or to be created as part of the .CSV import.

If the Partner option has been enabled in the application Setup, a Partner can be assigned to a Customer by defining the Partner email within the .CSV file.

NOTE: The Country specified must be the same as what is found within the application

If the spelling is different in the .CSV file, a Customer's Country details will not be imported.

1. Click Choose File

Select a .CSV file to be imported

2. Click Upload

Displayed are lists of fields that are mapped to the corresponding fields in the .CSV file that is to be imported.

Customer Import								
Field Mapping Wizard Select the fields you wish to map to the internal database records.								
Title	[0] Title (char 128)	Username	[18] Username (char 128)					
First Name	[1] First Name (char 64)	Password	[19] Password (char 64)					
Last Name	[2] Last Name (char 64)	Partner's Email	[20] Partner's Email Address (char 128)					
Email	[3] Email Address (char 128)	Line Manager Username	[28] Line Manager Username (char 128)					
Company	[4] Company (char 128)	Custom 1	<not selected=""></not>					
Department	[5] Department (char 128)	Notes	[26] Notes (CLOB)					
Company Contact	[6] Primary Contact Company (int 1)	Locale	[27] Locale (char 5)					
Department Contact	[7] Primary Contact Department (int 1)	Options	✓ Ignore First Line					
Address 1	[8] Address 1 (char 128)	Fields that do r	Web Access					
Address 2	areata anyu raaarda							

*Fields marked with a / are mandatory.

*Fields marked with a *I* that do not contain matching system records automatically create new records in system.

- 1. Adjust mapped fields, if relevant
- 2. Check Ignore First Line if the imported .CSV file uses its first line as a header to define the field information

Leave the box unchecked if the .CSV file begins with usable data.

3. Check Web Access if the imported Customers are to have immediate access to the Customer Portal

If this option is not selected, Customers will not be able to log into the application until they have been designated web access within the Customer Information>Contact tab.

4. Click Import

The results of the import attempt will be displayed. If the import was successful, the new Customer details can now be accessed in the system.

Customer Import	
Import Wizard Results	*
Total of 1 Record(s) imported successfully.	
	Done

5. Click Done.

After the Customer has been imported, other fields require manual configuration, including:

- Room (if relevant)
- User Roles

3.2.6 Importing Customers using LDAP/Active Directory Server

Administrators can connect the application to a Directory Server for Customer and User authentication purposes. This removes the need to create Customer and User accounts as it allows the system to synchronize accounts and access levels with an existing Directory Server. It has the added benefit of allowing the Administrator to work with existing infrastructure.

As part of the mapping process, if no values exist on the authentication server for a mapped field, no drop-down menu will appear and Users cannot edit the field.

When the authentication server is used, the Customer's password is not visible within the service management tool, regardless of whether the Customer is new or existing in the system. This is due to the Customer's account being validated against an authentication server account rather than an internally authenticated account. The password is stored in the authentication server's database and it is not accessible through the service management system.

Also, Customers using LDAP or Active Directory authentication are not able to edit their first name, last name, LDAP/ADS username or email address. These fields are stored on the authentication server, and cannot be modified within the service management system.

To import Customers using a directory server, see Authentication.

3.3 Users

3.3.1 Users

The User menu allows an Administrator to create accounts for other Users. The tab gives Administrators and Supervisors control over all User accounts in the system. User accounts can be created, modified and deleted.

Users can have *one* of the following Roles:

- Technician
- Supervisor
- Partner

and one or more of:

- Administrator
- Customer
- Finance
- Manager

It is possible for any User to have multiple Roles. (For example, a Technician may also be assigned a Customer Role so they can log requests related to their own equipment. When a User has more than one Role, they can switch between interfaces easily.) See: Changing Roles

User Accounts can be created within the application or imported from one or more authentication servers.

If using User Custom fields, we recommend these be configured prior to creating Users. See: Custom Fields.

See: Creating a User Account (Internal Authentication)

See: Importing a User Account (External Authentication)

3.3.2 Creating a User Account (Internal Authentication)

Users within the system that are to be assigned to support Teams must be allocated one of the following Roles:

- Technician
- Supervisor
- Partner

The above User Roles can work on requests. The About Roles section of the User Guide provides more information regarding specific User Roles in the system.

Creating a User Account

When creating a new User, the following four tabs are available:

- Information
- Schedule
- Aliases
- Team
- Skills
- Types.

Information Tab

Within the User Information tab, User details can be created, viewed and edited. User Roles, Process assignment and default logins can all be customized within this tab.

To create a new User:

- 1. Select User>Users
- 2. Click New

The User Information screen appears.

User Information Fields	
Title	Select a title from the drop-down menu options. (This field is displayed if the Enable Titles option i set to Yes in the Admin>Setup>Setup>Privileges>Customer tab.)
First Name*	Enter the User's First Name.
Last Name*	Enter the User's Last Name.
User Name*	Enter a LiveTime User Name (unique).
Password*	Enter a User Password. Note: Passwords can be changed under the Users Tab or reset by the User under their My Account tab.
Roles*	Assign a Role for the User. Each Role has associate permissions. See Roles.
	Every Technician Role assigned also needs a Supervisor assigned.
	NOTE: Note: More than one Role can be assigned but only one of Supervisor, Partner or Technician can be allocated per User.

User Information Fields	
Default Portal*	The Default Portal is the User Interface accessed by default when a User with multiple Roles logs into the system.
	NOTE: If the Users Default Portal is set to Customer, the User details will not be accessible in the Users list, but included in the list within the User>Customer tab.
Assignment Template	This option is visible in a new User Information screen if Job Assignment Templates are configured in the User> Assignments tab.
	Select a template to assign the new User to multiple Teams, Escalation layers and Processes.
Operations Processes	Assign the licensed access for Request Fulfilment, Incident and Problem Management.
	Assigning Processes to the User gives them access to support those Processes and enables them to be assigned as Team members for those Processes' Teams.
	See User Processes.
Change Processes	Assign the licensed access for Change, Release and Deployment Management. Note, Users assigned Release are automatically assigned Deployment.
Internal Processes	Enable the Users privilege to maintain Service Level, Configuration and Knowledge Management
	Selecting the Configuration and Knowledge options displays the relevant fields that enable granular controls to be set for those processes.
	NOTE: The Finance Role is limited to the processes of Configuration and Service Level Management.
Knowledge	If the User is assigned the Knowledge Managemen process, their privilege to create, edit, delete and/ or publish KBAs can be configured.
Configuration	If the User is assigned the Configuration Management process, their privilege to create, edit and/or delete Items within the CMDB can be configured on a per task basis.
Customer Org Unit	If the User is also allocated a Customer Role withir the system, this field is displayed. Enter Company or Department details that apply to the User in their Customer Role.

Line Manager	(This field is visible if the User is also assign a Customer Role within the system. The information can not be edited if the line manager details are set by the LDAP synch.)
	If relevant, assign a system user with the Customer Role who can approve/reject requests made by this Customer.
Primary Email*	Enter the User's email address. System messages are sent to this address.
Send To	This field becomes available for Users that have the Customer Role and have alternate email addresses entered on the Aliases tab.
	Select the most appropriate email address to be set as the default address applied to Customer correspondence. When the Send To field is set to an alias address the Primary Email address is not included in the cc list, unless specified in the request Information tab cc list.
Phone	Enter telephone details.
Mobile	A mobile number can be entered as a contact number or for use with SMS (Short Mail Service message). An SMS can be sent to notify the assigned Technician when a Service Request is raised.
	SMS Messaging options:
	 From the drop down list, select the SMS service provider.
	 Override SMS Address. If your service provider does not appear in the list, click this checkbox and enter an alternate Service Provider.
SMS Override	Enter SMS Gateway override details for the User, if a number other than the one entered in the Mobile field is to be used to send/receive updates via SMS. Enter the complete SMS details in email address format, i.e., 000777891@smsgateway.provider.com.
Fax	Enter known fax details.
Pager	Enter pager details.
Salary	An annual salary can be entered. This value is used for reporting.
Forum Moderator	Select this checkbox to designate this User as a forum moderator. See Forums.

User Information Fields Survey Manager Supervisor*

Partner For

Partner

Available

Assignment

On Vacation

Training

Email Locale

Country

State

Timezone

GPS

Select this checkbox to enable this User to create and manage surveys in the system.

Select a Supervisor, if the User has a technician role. Users with the Technician Role must be allocated a Supervisor.

When a User is assigned the Partner Role, their associated Partner Organization must be assigned within this field.

If the User is also assigned a Customer Role, this field allows the Customer to be associated with a Partner Organization who will handle their requests when they are logged in the system.

Shows if the User is available for requests to be assigned to them. This is based on work hours configured in the Schedule tab of the User and their Vacation Status. If no hours are set within the Schedule tab when the "Define Works Hours" is enabled within Admin>Setup>Privileges>User screen and the User is not on vacation, the system will consider them to be unavailable.

**Visible when the Assignment Control is enabled in Admin>Setup>Privileges>User.

Set to Off if the User is not to be assigned new requests, irrespective of their Availability status.

Placing a Technician on vacation excludes them from being assigned new requests automatically. When On Vacation is activated a Technician's existing requests are not reassigned.

This option is only visible for Technician Users, and when enabled allows the User to be included in Teams to view requests but does not allow them to put the request in edit mode or add Notes.

Adjust the default language for email correspondence, if required.

The User automatically adopts the default Country set for the system. However, the Country can be manually adjusted here for the specific User.

Set the State information based on the Country selected, if required.

The User automatically adopts the default Timezone set for the system. However, the Timezone can be manually adjusted for the specific User.

The GPS coordinates of the last known address.

* Denotes Mandatory Fields

- 1. Complete the User detail information
- 2. Click Done

Emailing User Details



To email a User regarding their system log in credentials, click the Email button within the User Information screen. If Random Passwords is enabled, selecting Email will reset the Password and forward the details to the User. If Password Questions is enabled in Setup>Privileges>System, selecting Email will send a link to the User directing them to a page that includes the security questions set for their account and reset the password based on the answers provided. Customers must complete this process within an hour of the email being sent.

vCard Button



Select this option to download and open the User's information in an electronic business card format, to email or save outside the system.

Schedule Tab

By default the Schedule tab includes the On Vacation option, which can be set to Yes when the User takes leave. The system will automatically reassign the User's active requests, if the Vacation Reassign option has been enabled in the Admin>Setup>Privileges>User tab. If this option has not been enabled, a Supervisor User will need to manually reassign the requests, if required.

If the system Setup has been configured to Define Work Hours and Schedule Vacations, this additional functionality is available within the Schedule tab.

User Information	on				
Information	Schedule	Aliases	Team	Skills	Org Unit
					Ingo Engels
Working Hours					
Relative To	(GMT +5:30) New Delhi				
Apply Template	•				
Sunday	<unavailable> 💌 to</unavailable>	<unavailable></unavailable>	•		
Monday	09:00 🔻 to	17:00	•		
Tuesday	09:00 💌 to	17:00	•		
Wednesday	09:00 🔻 to	17:00	•		
Thursday	09:00 💌 to	17:00	•		
Friday	09:00 🔻 to	17:00	•		
Saturday	<unavailable> 💌 to</unavailable>	<unavailable></unavailable>	•		
Holidays					
On Vacation	🖲 No 🗢 Yes				
Schedule	00				
	Purpose		E Start Date	Find Date	■ Active
		0 - 0	0 of 0 Results		
				Cancel	Save

Define Work Hours

Use the drop-down lists to set the hours of work when the User is available for the week. Based on what is set here, the system will assign requests to the User during their available hours. However, if no other Technician is available for requests based on their defined work hours, the system will assign the User new requests outside of their set work hours.

NOTE: If the Technician Define Work Hours option has been enabled, the hours of work MUST be defined, otherwise the system will ignore the Technician Assignment logic and automatically allocate new requests to the Team Lead.

Schedule Holidays

The Schedule Holidays functionality allows the Supervisor to pre-book leave in the system for Users. There are no restrictions on the number of days that can be set, and based on the configuration, when a leave period is activated, the system will automatically reassign active requests to other available Users applying the Technician Assignment logic. If the request was initially drawn from an Incident Queue, it will not return to the Queue but be reassigned to the most relevant Technician based on the Technician Assignment logic. As a Supervisor User, to schedule User leave:

- 1. Go to the Users>User option
- 2. Select the hyperlink name of the User
- 3. Move to the Schedule tab
- 4. Click Edit
- 5. Select 😳

The Vacation Details window is expanded.

6. Enter the reason for leave in the Purpose box

Vacation Details	
Purpose	Anual Leave
Start Date	12/24/15 22:30
End Date	01/04/16 22:29

- 7. Complete the Start and End date details
- 8. Click Save

The details are recorded in the database and when the Start Date is reached, new requests will not be assigned to the User. After the scheduled End Date, the User account will be automatically re-activated.

E Start Date		Active
12/24/15 22:30	01/04/16 22:29	
I - 1 of 1 Results		
1	12/24/15 22:30	12/24/15 22:30 01/04/16 22:29

9. NOTE: It should be noted that if the User on vacation is a Team Lead for any Teams where there are no Technicians available for new request assignment, the system will allocate new requests to the Team Lead, regardless of their vacation status.

The Supervisor Events calendar in the Home Tab shows when Users on vacation:

4 1	today		January 2016 week da						Legend
	Sun		Mon	Tue	Wed	Thu	Fri	Sat	
		27	28	21	30	31	1	2	Public Holidays
Ingo Engels									Technician Leave
									Requests Due 🚳
									Scheduled Requests
									Planned Outages
									Change Schedule
		3	4		5 6	7	8	9	
ingo Engels					1				

Aliases Tab

NOTE: This is only applicable if the User has the Customer Role.

Use the Aliases tab to enter additional email addresses. Email addresses in the Aliases tab allow the User to send emails to the System or Team support addresses from more than one address. The system creates requests from these emails. Notifications for requests created using an address in the Aliases tab, are sent to the main email address and cc'd to the alias address that was used to create the request.

When one or more alias email addresses have been created for a Customer, a Send To field is displayed on the Customer Information screen, which allows the most appropriate email address to be set as the default address applied to Customer correspondence. When the Send To field is set to an alias address the Primary Email address is not included in the cc list, unless specified in the request Information tab cc list.

User Information				
Information Schedule	Aliases	Team	Skills	Org Unit
Add Remove				Ingo Engels
🖾 Email				<u>ا</u>
ingo@epm.blr.novell.com				
	1 - 1 of 1 Results			
				Done

To add an alias email address:

- 1. Select User>Users
- 2. Click on the User name

The User Information screen appears.

- 3. In the Information tab, click Edit
- 4. Select the Aliases tab
- 5. Enter an alias email address
- 6. Click Save

When an alias email address has been created for a Customer, a Send To field is displayed on the Customer Information screen, which allows the alias email address to be set as the default address applied to Customer correspondence.

7. NOTE: An alias will only be used if the User has a Customer Role.

Team Tab

The User Team tab lists Teams associated with the selected User. Use this section to assign the User to one or more support Teams, making the additions by Team or job Assignment templates that have been configured in the system. Processes selected in the Information Tab for the User determine the Teams available in the Team tab.

Once a User is assigned to the Team, the Supervisor must configure the escalation layers for the Team to include the new User. However, the User can easily be added to Layer One of escalation when associated with a new Team by ticking the "Assign new users to layer one option" when assigning the Team within this tab. Also, if Assignment templates are created in the system, by selecting the Team template, the User will automatically be added to Teams, Escalation Layers and Work Groups configured within the selected template.

NOTE: The User must be assigned the relevant Processes for Support Teams to be shown in Team search results. If an Assignment template is selected and includes Teams for Processes the current User is not allocated, those Teams will not be included on the template.

To add a User to a Team within the Team tab:

1. Click Edit

User Information			
Information	Schedule Aliases	Team Skills	Org Unit
			Ingo Engels
Add By	Team 💌		
Teams	 BYOD-Incident-Team Change Management Team 	Find Team (Name)	۲
		Assign new user to layer one	
		Cancel	Save

2. Using Add By Team, enter a Team Name in the Find Team field and click 🥥

Or, leave the field empty and click **Q**. The Teams for Processes that the User is assigned are displayed in the search results.

- 3. Tick "Assign new user to layer one", if relevant
- 4. Select a Support Team link

The User is assigned to the Team and layer one of escalation if appropriate.

5. Click Save

To add a User to a Team within the Team tab using Assignment templates:

- 1. Click Edit
- 2. Within the Add By field, select Team Template

Job Assignment Templates that have been configured in the User>Assignments tab are displayed, but only including Teams consistent with the Processes assigned to the User.

User Information					
Information	Schedule	Aliases	Team	Skills	Org Unit
					Ingo Engels
Add By	Team Template	•			
Templates		•			
				Cancel	Save

- 3. Select one or more Template options
- 4. Click Save.

The User is automatically included in the Teams, Escalation Layers and Work Groups configured in the Template.

User Information					
Information	Schedule	Aliases	Team	Skills	Org Unit
					Ingo Engels
Add By	Team Template	•			
Templates	New Template	•			
	Team Name		<u>à</u>	Layer	≣
	Portfolio			Management	
			1 - 1 of 1 Results		
			(Cancel	Save

To remove a User from a Team:

1. Select User>Users

The User Information screen appears.

- 2. Click on the name of the User
- 3. Select the Team Tab
- 4. Click Edit
- 5. Select to remove a Team assignment
- 6. Click Save
- 7. Click Done
- **8. NOTE:** If a User is the Team Lead or the only person assigned to an escalation layer they cannot be removed from a Team under this tab.

Skills Tab

Use this section to assign any specific Classifications that are to be handled by a Supervisor, Technician or Partner. This assignment assumes areas of expertise for Users assigned to these Classifications. This allows the system to automatically route requests logged against these Classifications to the most appropriate User.

NOTE: Prior to using the Skills tab, the Supervisor should configure Items and Classifications.

Assigning a Classification

To assign a Classification:

- 1. Select User>Users>Skills
- 2. Click Edit to display the Add button
- 3. Click Add
- 4. Select the Item Category

The Item Type and Classification Type drop-down list is displayed.

User Information						
Information	Schedule	Aliases	Tea	m	Skills	Org Unit
						Ingo Engels
Item Category		•				
	Cancel Save					
Classification			🛓 Item Catego	огу	■ Item Type	≡
		0 - 0 of (0 Results			

- 5. Choose an Item Type, if relevant
- 6. Select * to assign all Classifications as Skills or choose a specific Classification

The list displayed will include all Classifications configured for the Item Category and the Item Type, if an Item Type is selected.

User Information					
Inform	ation Schedule	Aliases Team	Skills	Org Unit	
				Ingo Engels	
Item Category	Hardware 💌				
Item Type	Dell Latitude E6430				
Classification	*				
	*				
🖾 Classific	Configuration Downloads	🛓 Item Category	🔳 Item Type	≣	
General Manuals Network	Manuals	0 - 0 of 0 Results			

- 7. Click Save
- 8. Click Done

NOTE: The Classification assigned to the User is either based on the Classifications of an Item Category or Item Type, hence displaying two columns. However, the Item Type column will only include information when the Classification selected is specific to that Item Type, and not directly related to the Item Category.

To remove a Classification:

1. Select User>Users

The User Information screen appears.

- 2. Click on the name of the User
- 3. In the Skills tab, click Edit

The Delete button appears at the bottom right.

- 4. Click the checkbox next to the Classification. Multiple Classifications can be checked
- 5. Click Remove
- 6. Click Done

Org Unit Tab

Use this section to assign one or more Org Units to a Supervisor, Technician or Partner, which will result in requests that are logged by these Org Units being routed to the assigned Users. When Users are assigned to support Organizational Units, the Find Customer option during the request creation process displays the "Supported Org. Units Only" option. This limits the Customer search results to those Customers who belong to the Org. Units the logged in Technician is assigned to support.

Find Customer		
First Name	Email	
Last Name	Phone	
Username	Org. Unit	
osemane	org. onic	
Supported Org. Units Only		0

Assigning an Org Unit

To assign an Org Unit:

1. Select User>Users>Org Units

- 2. Click Edit to display the Find Org. Unit search field
- 3. Enter any known Org. Unit details or leave the field blank to return the full list of Org. Units recorded in the system

User Information					
Information	Schedule	Aliases	Team	Skills	Org Unit
					Ingo Engels
Org. Units			Find Org. Unit (N	ame)	Q
			Ca	incel	Save

- 4. Click
- 5. Click on the Org. Unit name hyperlink to associate it with the User Multiple selections may be made, if required.
- 6. Click Save

Removing an Org Unit

To remove the association between a User and an Org Unit:

1. Select User>Users

The User Information screen appears.

- 2. Click on the name of the User
- 3. In the Org Units tab, click Edit
- Select next to the relevant Org Unit/s
 The Org Unit/s details are removed from the tab
- 5. Click Save
- 6. Click Done

Re-enabling Deleted Accounts

Administrators have the ability to reactivate deleted User accounts.

To enable a deleted account:

- 1. Within the User>Users tab, select the Search button
- 2. Select Deleted as the Account Status search option
- 3. Click Search

A list of deleted Users is displayed.

4. Select a User to re-enable

The User information page appears.

5. Click the Enable button, to reactivate the account.

The User account becomes active and is available within the application.

3.3.3 Importing Users using LDAP/Active Directory Server (External Authentication)

Administrators can connect the system to a Directory Server for User authentication purposes. This removes the need to create User accounts as it allows the application to synchronize User accounts and access levels with an existing Directory Server. It has the added benefit of allowing the Administrator to work with existing infrastructure.

As part of the mapping process, if no values exist on the authentication server for a mapped field, no drop-down menu will appear and Users cannot edit the field.

When the authentication server is used, the User's password is not visible through the service management application, regardless of whether the User is new or existing in the system. This is due to the User's account being validated against an authentication server account rather than a system account. The password is stored in the authentication server's database and it is not accessible through the application.

Also, Users using LDAP or Active Directory authentication are not able to edit their first name, last name, LDAP/ADS username or email address. These fields are stored on the authentication server and cannot be modified within the service management tool.

To import Users using a directory server, see Authentication.

3.4 Assignments

The Assignments tab allows job function templates to be created for new and existing Technician Users. Users can be assigned to multiple Teams, Escalation Layers and, for new Users, Processes by applying the templates. Administrator and Supervisor Users can apply these templates within the User Information screen for new Users, and the Team tab of the User Information screen for existing Users who are assigned the relevant Processes.

For example, a Frontline Support template may be created, where a User is assigned to Layer 1 of an Incident Team and a Work Group of a Service Request Team. They may also be assigned to an Update Customer Group within a Change Management Team. This template could then be easily applied to all Users created directly in the system, within the User Information screen. Or, if the User was created using an authentication server, the template could be applied within the Team tab of the User Information screen.

3.4.1 Creating an Assignment Template

Before creating an Assignment template, be sure all the relevant Teams and Escalation Layers or Groups exist in the system. However, should you create additional Teams, Escalation Layers or Groups at a later date, the Assignment template can easily be updated.

To create an Assignment Template:

- 1. Select User>Assignments
- 2. Click New

Assignment Template	
Information	
Details	
Template Name	New Template
Layers	Add Remove
	☑ Team Name ≜ Layer
	0 - 0 of 0 Results
	Cancel Save

- 3. Enter the Template Name
- 4. Click Add

The Find Team editor is displayed.

5. Enter a Name to find a specific Team, or leave the field blank to return a list of all Teams and click

Template Name	New Template	
Team	Find Team (Name)	
		0
	Team	à
	BYOD-Incident-Team	
	Change Management Team	
	Device-Incident Team	
	Portfolio	
	Problem Analysis Team	
	Service Request Team	
	TeamSMG	
	TeamSMG1	
	1 - 8 of 8 Results	

6. Select the Team name link

The Layer or Groups drop down list is displayed.

7. Select an option from the available list

Details	
Template Name	New Template
Team	
	Find Team (Name)
	Change Management Team
Layer	[No Layer]
	[No Layer]
	Escalation
	Layer 2
	Default Group
	Default Manager Group

- 8. Click Save
- 9. Repeat steps 4 to 8, until all relevant assignments have been created for the template

Assignment Template		
Information		
Details		
Template Name	New Template	
Layers	Add	Remove
	🖾 Team Name	🛓 Layer 🛛 🔳
	Portfolio	Management
		1 - 1 of 1 Results
		Cancel Save

10. Click Save.

The template is now available within the User Information screen for new User creation, or the Teams tab for existing Users.

3.4.2 Editing an Assignment Template

To make changes to an existing User Assignment template, such as adding or removing Teams and the related Layer or Group assignment:

1. Select User>Assignments

Assignments			
New			Display: 10 💌
Template Name	🛓 Owner	■ Teams	Layers
New Template	Kamal K	1	1
		1 - 1 of 1 Results	

- 2. Click on the relevant Template Name hyperlink
- 3. Click Edit
- 4. To remove a Team/Layer association, check the box next to the Team Name

Template Name	New Template	
Layers	Add	Remove
	🖾 Team Name	<u>≜</u> Layer 🔳
	BYOD-Incident-Team	Layer 1
	Portfolio	Management
		1 - 2 of 2 Results

- 5. Click Remove
- 6. To add a Team/Layer association, click Add
- 7. Enter a Name to find a specific Team, or leave the field blank to return a list of all Teams and click

Template Name	New Template	
Team	Find Team (Name)	
		0
	Team	à
	BYOD-Incident-Team	
	Change Management Team	
	Device-Incident Team	
	Portfolio	
	Problem Analysis Team	
	Service Request Team	
	TeamSMG	
	TeamSMG1	
	1 - 8 of 8 Results	

8. Select the Team name link

The Layer or Groups drop down list is displayed.

9. Select an option from the available list

Details	
Template Name	New Template
Team	
	Find Team (Name)
	Change Management Team
Layer	[No Layer]
	[No Layer]
	Escalation
	Layer 2
	Group
	Default Group Default Manager Group
	Group12

- 10. Click Save
- 11. To save all changes, click Save.

The screen defaults to the Assignments list view.

3.4.3 Deleting an Assignment Template

To delete an Assignment template from the system:

- 1. Select User>Assignments
- 2. Click on the relevant Template Name hyperlink
- 3. Click Edit
- 4. Select Delete

A warning message is displayed.

Details		
Template Name	New Template	
Layers	Add Remo	ve
	D Team Name	🛓 Layer 🛛 🗮
	BYOD-Incident-Team	Layer 1
	Portfolio	Management
	TeamSMG	Default layer
	1	- 3 of 3 Results
	Delete	Cancel Save

5. Click OK.

The screen defaults to the Assignments list view.

3.4.4 Applying Assignment Templates to New Users

For new Users created directly in the system, the Assignment template is available within the User Information screen. By selecting a template, the newly created User is automatically associated with all relevant Processes, Teams, Escalation Layers and Groups. To remove a Team assignment after a template has been applied during the new User creation, deselect the Process and the Team Name will be removed from the assigned list.

To use an Assignment template for a new User:

- 1. Select the User>Users tab
- 2. Click New
- 3. Enter the User details
- 4. Within the Assignment Template field, select the relevant option

All Processes are automatically ticked for the User.

Roles	Supervisor Administrator Customer	Technician Manager	Partner Finance
Default Portal	User Portal	•	
Assignment	Service Desk Tech	_	
Template Operations	Developer		Darblan
Processes			Problem

5. Uncheck any Processes that are to be removed for the User

The Team association will automatically be removed from the Team Name list.

- 6. Complete remaining User details, including assigning a Supervisor and Email address
- 7. Click Save.

3.4.5 Applying Assignment Templates to Existing Users

For Users who have active accounts in the system and are assigned the relevant Processes, the Assignment template is available within the Team tab of the User Information screen.

To apply a template to an existing User:

- 1. Go to User>Users
- 2. Select the Technician Name hyperlink
- 3. Click Edit
- 4. Verify the User has all the relevant Processes with the User Information screen
- 5. Select the Team tab
- 6. Within the Add By field, select the Team Template option

The drop down list of Templates is made available.

User Information					
Information	Schedule	Aliases	Team	Skills	Org Unit
					Ingo Engels
Add By	Team Template	-			
Templates		▼			
	New Template			Cancel	Save
	R&D Template				

- 7. Select the relevant Template from the list
- 8. Click Save.

User Information							
Information	Schedule	Aliases	Team		Skills	G	Org Unit
						Ing	o Engels
Add By	Team Template						
Templates	New Template	•					
	Team Name		<u>à</u>	Layer			≣
	Portfolio			Manageme	ent		
			1 - 1 of 1 Results				
			(Canc	el	Save	•

3.5 About Roles

3.5.1 User Roles

There are seven access levels in the system that determine the functionality and privileges. These include the Administrator and Customer Roles, plus five User Roles:

- Supervisor
- Technician
- Partner
- Manager
- Finance

A Default Role is assigned if multiple Roles are allocated to an individual.

A User can have more than one Role but only one of the licensed Roles of:

- Supervisor
- Partner
- Technician

Default Portal

Individuals can be allocated more than one Role. For Users assigned more than one Role, define a Default Portal within their Information screen. When they log into the system, the Default Portal is displayed and they can move to other Portals using the links provided next to their login name.

The Default Portal options include Customer, Setup for system Administrators and User, for those assigned a Supervisor/Technician/Partner, Finance and Manager Role(s).

When a person has multiple Roles, the Default Role is used to log into the system and the privileges of multiple User Roles are consolidated in one view. For example, if a User is assigned Finance, Manager and Supervisor/Technician access, they can view all functionality related to these Roles within the User view.

When the User is also assigned Admin and Customer access, next to their login name, the options of Setup and Customer will be displayed.

[setup]	[Customer]	System	Supervisor
---------	------------	--------	------------

The Administrator can access the admin functionality within the Setup view. If the Administrator is also assigned User and Customer access, next to their login name, the options of Setup and Customer will be displayed.

```
[user] [Customer] System Supervisor
```

Users or Administrators who are also assigned Customer access can view the Customer Portal through the Customer link displayed in the sub-menu bar. Whilst logged in as the Customer, the options of User and Admin Portal will be displayed within the Customer Portal sidebar Menu.

To move to another User Role portal:

- 1. Log in using the credentials for the default User Role
- Click on the Setup/User/Customer link, as required. The screen defaults to the selected functionality.

3.5.2 User Processes

The service management application includes processes to manage the different types of requests:

- Service Requests
- Incidents
- Problems
- Change Requests
- Release and Deployment
- Service Level Management

NOTE: Service Requests, Problem, Change, Release and Deployment Management apply based on installed license.

When User accounts are created, access to Incident, Problem, Change, Release, Deployment, Request, Service Level, Configuration and Knowledge Management processes are allocated to the Roles. Allocating processes gives the User access to requests and information within each assigned process.

Providing access to the licensed processes of Incident, Problem, Change and Service Requests means the User can be assigned as a member of support Teams within that process.

Setting access to the support process of Service Level Management displays the Service Tab for the User when they log into the application. This allows the User to create and edit SLAs, OLAs and Underpinning Contracts.

When the privileges of Configuration and Knowledge are selected, the options to define control at a more granular level are displayed in the User Information screen, and Users can be assigned permission to create, edit, delete and publish elements within these processes.

The following User Roles have limitations for the processes they are assigned:

- The Finance Role can only be assigned Configuration and Service Level Management
- The Management Role can be allocated all processes but with 'Read Only' access.

3.5.3 User Roles & Privileges

Service Manager User Roles and Privileges	Administrator	Supervisor	Technician	Partner	Finance	Manager	Customer
Modules & Features							
Setup							
Email Setup and email customizatio n	Yes						
Create Custom Fields	Yes						
Set User, Customer & System Privileges	Yes						
UI customizatio n	Yes						
Dynamic database switching	Yes						
Schedule LDAP/ADS Integration	Yes						
Item import via AMIE or .CSV file	Yes						
Customer Import	Yes						
Scheduled Reports	Yes						
Incident Analyzer for Problem Managemen t	Yes						

Service Manager User Roles and Privileges	Administrator	Supervisor	Technician	Partner	Finance	Manager	Customer
Enable Billing module	Yes						
Customize Workflows		Yes					
Customize System Messages and Keywords	Yes						
Chat		Yes	Yes	Yes			Yes
Context Sensitive Help	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Create Users	Yes	Yes					
Assign User Roles & Processes	Yes	Yes					
Create Teams, Escalation layers & Workgroups		Yes					
Create Customers	Yes	Yes	Setup	Setup	Setup	Setup	
Enable Customer access	Yes	Yes	Yes	Yes	Yes	Yes	
View/ Edit Customer	Yes	Yes	Yes	Yes	Yes	Yes	
Search Customers	Yes	Yes	Yes	Yes	Yes	Yes	
Re-enable deleted Users & Customers	Yes						
Create Organization al Units		Yes	Yes	Yes	Yes	Yes	

Service Manager User Roles and Privileges	Administrator	Supervisor	Technician	Partner	Finance	Manager	Customer
Assign Contracts to Cust Org. Units	Yes	Yes	Yes	Yes	Yes	Yes	
Incident Managemen t							
Create/Edit Incidents		Yes	Yes	Yes			
Delete Incidents		Yes					
View/ Edit other Technicians' Incidents		Yes	Setup				
Re-assign Incidents		Yes	Setup	Setup			
Escalate Incidents		Yes	Setup	Setup			
View all Incidents		Yes	Setup				
Handshaking		Yes	Yes	Yes			
Incident Groups		Yes	Yes	Yes		Yes	
Impact analysis		Yes	Yes	Yes		Yes	
View Proposed Solutions		Yes	Yes	Yes			
Incident analysis		Yes	Yes	Yes			
Subscribe to RSS feeds		Yes	Yes	Yes			
Request Fulfilment							
Create/Edit Service Requests		Yes	Yes	Yes			

Service Manager User Roles and Privileges	Administrator	Supervisor	Technician	Partner	Finance	Manager	Customer
Delete Service Requests		Yes					
View/ Edit other Technicians' Service Requests		Yes	Setup	Setup			
View all & re- assign Service Request		Yes	Setup	Setup			
Approve Service Request						Yes	Yes
Escalate Service Request status		Yes	Yes	Yes		Yes	
Handshaking		Yes	Yes	Yes			
View Proposed Solutions		Yes	Yes	Yes			
Service Request Groups		Yes	Yes	Yes		Yes	
Impact analysis		Yes	Yes	Yes		Yes	
Update Workflow State		Yes	Yes	Yes			
Problem Managemen t							
Create/Edit Problems		Yes	Yes	Yes			
Delete Problems		Yes					

Service Manager User Roles and Privileges	Administrator	Supervisor	Technician	Partner	Finance	Manager	Customer
View/ Edit other Technicians' Problems		Yes	Setup				
Re-assign Problems		Yes	Setup	Setup			
Escalate Problems		Yes	Setup	Setup			
View all Problems		Yes	Setup				
Create Known Errors		Yes	Yes	Yes		Yes	
Impact analysis		Yes	Yes	Yes		Yes	
View Proposed Solutions & Workaround s		Yes	Yes	Yes			
Problem analysis		Yes	Yes	Yes			
Create Workaround s		Yes	Yes	Yes			
Change Managemen t							
Create/Edit Change Requests		Yes	Yes	Yes			
Delete Change Requests		Yes					
View/ Edit other Technicians' Change Requests		Yes	Setup	Setup			

Service Manager User Roles and Privileges	Administrator	Supervisor	Technician	Partner	Finance	Manager	Customer
View all & re- assign Change Request		Yes	Setup	Setup			
Escalate Change Request/ Change CR status		Yes	Yes	Yes		Yes	
Approve Change Request						Yes	Yes
Change Groups		Yes	Yes	Yes		Yes	
Impact analysis		Yes	Yes	Yes		Yes	
Create Back Out procedure		Yes	Yes	Yes			
Update Workflow State		Yes	Yes	Yes			
Release & Deployment							
Create/ Delete Tasks		Yes					
Edit Tasks		Yes	Yes	Yes			
View/ Edit other Technicians' Tasks		Yes	Setup	Setup			
View all & Re-assign Tasks		Yes	Setup	Setup			
Define a Release		Yes				Yes	
Define a Deployment Package		Yes				Yes	

Service Manager User Roles and Privileges	Administrator	Supervisor	Technician	Partner	Finance	Manager	Customer
Control Release Lifecycle		Yes				Yes	
Create and Modify Workflow		Yes					
Service Asset & Configuratio n, Service Portfolio & Service Catalog Managemen t							
Create/Edit/ Delete Items		Yes	Setup	Setup	Setup	Setup	Setup
View/Edit Items		Yes	Yes	Yes	Yes	Yes	
Search Items		Yes	Yes	Yes	Yes	Yes	Yes
Re-enable deleted Items		Yes					
Create Item Categories, Types & Classification s		Yes					
Create Outages		Yes	Setup		Yes	Yes	
View Outages		Yes	Yes	Yes	Yes	Yes	Yes
Assign Contracts		Yes	Yes	Yes	Yes	Yes	
Service Level Managemen t							
Define SLAs		Yes	Yes		Yes	Yes	

Service Manager User Roles and Privileges	Administrator	Supervisor	Technician	Partner	Finance	Manager	Customer
Define Underpinnin g Contracts		Yes	Yes		Yes	Yes	
Define OLAs		Yes	Yes		Yes	Yes	
Create Vendors		Yes	Yes		Yes	Yes	
Create SLA Breach Codes		Yes					
View SLA breaches		Yes	Yes		Yes	Yes	
Financial Managemen t							
Create Purchase Orders					Yes		
Process Purchase Orders					Yes		
Create and Assign Contracts					Yes		
Process Contracts					Yes		
Create and Process Invoices					Yes		
Create, Manage & View Item Costs					Yes		
Forecast Service Item Costs					Yes		
Knowledge Managemen t							

Service Manager User Roles and Privileges	Administrator	Supervisor	Technician	Partner	Finance	Manager	Customer
Create Articles/ FAQs		Setup	Setup	Setup		Setup	
Publish Articles		Setup	Setup	Setup		Setup	
Create Article Groups		Yes	Setup	Setup			
Search Articles		Yes	Yes	Yes		Yes	Yes
Administer Forums		Setup	Setup	Setup			
Create/ Modify/ Reply to topic threads		Setup	Setup	Setup			Setup
Create Surveys		Setup	Setup	Setup		Setup	
Complete Surveys		Yes	Yes	Yes	Yes	Yes	Yes
Reports							
KPI Reports		Yes	Yes			Yes	
Incident Reports		Yes	Yes			Yes	
Problem Reports		Yes	Yes			Yes	
Change Request Reports		Yes	Yes			Yes	
Configuratio n Reports		Yes			Yes	Yes	
Service Agreement Reports		Yes			Yes	Yes	
Contract Reports		Yes			Yes	Yes	
Organization Reports		Yes			Yes	Yes	

Service Manager User Roles and Privileges	Administrator	Supervisor	Technician	Partner	Finance	Manager	Customer
Technician Reports		Yes				Yes	
Knowledge Reports		Yes	Yes			Yes	
Finance Reports		Yes			Yes	Yes	
Login Reports	Yes	Yes				Yes	
System Reports	Yes	Yes					
Build Reports		Yes			Yes	Yes	
Custom Reports		Yes				Yes	
Home							
Create Alerts	Yes	Yes	Setup				
View Alerts	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Enable Quick Calls	Yes						
Create Quick Call Templates		Yes					
Set User Preferences	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Disable receiving personal email	Yes	Yes	Yes	Yes	Yes	Yes	
Dashboard across Processes		Yes	Yes	Yes		Yes	
Customer Portal							
Create/ View/Edit requests							Yes

Service Manager User Roles and Privileges	Administrator	Supervisor	Technician	Partner	Finance	Manager	Customer
Edit & close existing requests							Setup
View Proposed Solutions							Yes
Search Knowledge Base							Yes
View FAQ's							Yes
View Service Catalog							Setup
Create Items							Setup
View Outages							Yes
Chat Technician regarding request							Setup
Search Forums							Setup
Complete Surveys							Yes
Subscribe to RSS feeds							Yes

3.5.4 Administrator Role

The Administrator Role performs System Configuration and Setup tasks including:

- Customizing the application and automated messages
- Configuring the interaction between external systems, including the authentication servers and asset management tools
- Enabling Customer, User, Request and System Privileges
- For systems with Problem Management, set parameters for automatic Problem identification and creation.

NOTE: Multiple Administrator Roles can be created within the system

It is recommended that organizations create only one or, at maximum, two Administrators. Only an existing Administrator can create other Administrator accounts.

If a User is assigned multiple Roles, the privileges are consolidated within a single User view. See: Changing Roles.

3.5.5 Supervisor Role

The Supervisor Role provides maximum access to the system for day-to-day management of the service desk and configuration control.

Supervisor Users can:

- Create User and Customer accounts
- Assign Roles & Processes
- Build workflows
- Configure the CMDB
- Allocate Technicians to Teams and Escalation Layers
- Define Service and Operational Level Agreements (SLAs and OLAs) for the organization.

The Configuration Management Database (CMDB) is the central data repository for the support tool. The CMDB allows centralized management of IT infrastructure through Configuration Items (Items). Within the application, everything is tied to Items in the CMDB. Supervisors control the configuration of the CMDB, which includes:

- Item Categories
- Lifecycle Templates
- Item Types
- Classifications
- Configuration Items

NOTE: The ability to create Items can also be assigned to other Roles, if the Administrator has enabled the option

If a User is assigned multiple Roles, the privileges are consolidated within a single User view. See: Changing Roles.

3.5.6 Technician Role

The Technician Role is assigned to service desk staff who work on requests.

Technicians are allocated support Processes and can then be assigned to Teams and Escalation Layers. Technicians can belong to any number of Teams within Processes.

When enabled by the Administrator, Technicians can:

- Create new Customers
- Create new Items

- Reassign requests
- Edit other Technicians' requests
- Create Alerts
- Create, edit, publish and delete Knowledge Base Articles by default.

NOTE: Every Technician must be assigned to a Supervisor

If a User is assigned multiple Roles, the privileges are consolidated within a single User view. See: Changing Roles.

3.5.7 Partner Role

A Partner User is assigned to a Partner Organization and has the same privileges as a Technician User, but can only view and support Customers associated with their assigned Partner Organization.

A Partner Role gives a User the ability to:

- Manage their Customers
- Manage their Customers' requests
- Create and maintain their Customers' Items
- View reports

Users who are assigned the Partner Role must be associated with a Partner Organization, and this is done manually within the User Information screen or within the Partner Organization > Technician tab. Partner Organizations are used in the management of requests between Customers/ Organizational Units and external service providers within the support system. It allows multiple Partner Users to be available within a Team, and assigned at relevant levels of escalations for working on requests.

If a Partner User is created and not associated with a Partner Organization, they cannot be assigned to a Team and therefore cannot be assigned to work on requests.

When a request is created for a Partner Organization's Customer it is automatically allocated to the Partner User within the Partner Organization.

3.5.8 Manager Role

The Manager Role is a User who can oversee the activities of the service desk or specific Processes. Managers have access to most parts of the system, primarily on a *read-only* basis.

The Manager access can be provided to Users who do not actively participate in the day-to-day happenings of service and support Teams, but may require detailed information about the actions and status of requests.

As a Manager, the User can:

- Create Customers
- View requests within their allocated Processes
- Access the full range of reports

- Create and modify Items
- Approve Service and Change Requests. (Based on licenses for Service Manager product.)

Users who manage the service desk and are to be included in Teams with edit access to requests, should be allocated a Supervisor Role.

NOTE: If a User is assigned multiple User Roles, the privileges are consolidated within a single User view. See: Changing Roles.

3.5.9 Finance Role

Users with the Finance Role are assigned Service Level Management and Configuration Management by default. Their Role is primarily for driving the service costing models and, if relevant, maintaining the Billing module that uses system Contracts and Purchase Orders.

A Finance User can:

- Create Customers and Items
- Project end to end Service costs
- Complete access to SLA's and OLA's
- Access reports
- Bill for services
- Process payment for Invoices
- Cancel Maintenance Contracts
- Manage IT and Service Assets

NOTE: A User assigned the Finance Role is the only User with the privilege to process the payment of Invoices

This is relevant for systems that have the Invoice option enabled in the Billing Setup.

If a User is assigned the Supervisor and Finance Role, the privileges are consolidated within a single User view. See: Changing Roles.

3.5.10 Customer Role

The Customer Role is for users who submit Service Requests, Incidents and possibly Change Requests to the service desk.

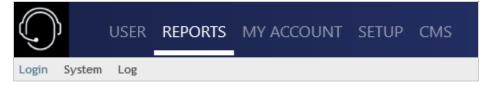
Within the system, based on the system configuration, Customers can:

- Create and manage requests via email
- Create, view or edit their requests through the Customer Portal
- Self-diagnose issues using the Knowledge Base
- Access proposed Solutions during the request creation process
- Participate in a live chat with Technicians to discuss their issues
- Subscribe to RSS feeds for the latest information on their requests

- Access the Knowledge Base, Forums and FAQs
- Customers have access to their Items' Outages information
- View all Services offered by the Service Organization, if enabled for the system
- Approve Service and Change Requests. (Based on licenses for Service Manager product.)



4.1 Reports



The Reports tab is used to view:

- Login Reports
- System Reports
- + Log

These reports provide the Administrator with details of system activity in real time. The Reports outline who has logged into the system and how the application is performing. The Login report can be used to log out Users who have closed a session without logging out.

Within the Log tab, the Administrator can view the system log files and export them when they require assistance with the system.

4.2 Login Report

The information displayed on the Login Report screen includes:

- Recent Logins with IP addresses, host details and login dates for Users who recently accessed the system
- Alert Manager Statistics showing active Alerts in the system

Alerts can be created manually by Users and automatically by the system to notify Users about service and support activities.

• Current sessions, with an End Session option at the bottom of the screen.

NOTE: Administrator Users can click on Logout to end a User's session. This may be required if a User has disconnected from the system without logging out and needs access to log back in. This option is not required if the Terminate Active Session option is set to Yes in the Setup>Privileges>System tab.

4.3 System Reports

System reports are a real time summary of the system status and environment.

Report information includes:

- Statistics including a summary of key system metrics regarding the current session, the hosting environment and memory usage
- Overall application and database statistics
- Tasks lists all background system jobs including Indexing, which allows the Supervisor to view that the system is indexing correctly without sticking
- Information about the Java Virtual Machine running on the server.

4.4 Log File View

To assist with the diagnosis of issues experienced when using the system, the Administrator can access system log files within the Log File Viewer screen. The information contains the last 250K of the 1MB log file.

Log File Viewer	
t Export	
<pre>sponse(WODynamicGroup.java:136) at com.webobjects.appserver.WOComponent.appendToResponse(WOComponent.java:1122) at er.extensions.components.ERXComponent.appendToResponse(ERXComponent.java:195) at com.livetime.ui.LTComponent.appendToResponse(LTComponent.java:68) at com.webobjects.appserver.WOSession.appendToResponse(ERXSession.java:1385) at er.extensions.appserver.ERXSession.appendToResponse(ERXSession.java:1571) at com.webobjects.appserver.WOApplication.appendToResponse(ERXApplication.java:1794) at er.extensions.appserver.ERXSession.appendToResponse(ERXApplication.java:2005) at er.extensions.appserver.ERXSession.appendToResponse(ERXApplication.java:2005) at er.extensions.appserver.ERXComponentRequestHandlerdispatchWithPreparedPage(ERXComponentRequestHandler.java:235) at er.extensions.appserver.ERXComponentRequestHandlerdispatchWithPreparedSession(ERXComponentRequestHandler.java:235)</pre>	
er.extensions.appserver.ERXComponentRequestHandlerdispatchWithPreparedApplication(ERXComponentRequestHandler.java:268)	

4.4.1 Log File Request

Administrators experiencing issues with the application, can easily export their Log File information

using <u>Export</u>. The output of a log file export, which includes system and license information, can then be uploaded to a pre-existing incident or emailed to your local system support team.

My Account

5.1 My Account

The My Account tab allows the User to:

- Edit personal information and notification preferences
- Reset their Username and password
- Set Password questions, if enabled in the system
- Select the Default Portal and Home tab landing page
- Set a Time Zone and Date Format

NOTE: Fields imported through an LDAP or Active Directory server cannot be changed.

5.1.1 Editing Account Information

To edit account information:

1. Select Home>My Account

The Account Information screen appears.

Account Information		
Account Inform	nation Vacation	Sankar R
Edit		
First Name	e Sankar	
Last Name	R	
Username	e sankar@epm.blr.novell.com	
Email	il sankar@nsd.com	
Default Portal	I User Portal	
Default Home	Tasks	
Receive Notifications	s On	
Notify On	New Update Escalation	
Phone	•	
Mobile	•	
Fax	c	
Pager	r	
Custom 1	I	
Date Format	t mm/dd/yy	
Country	,	
Time Zone	e (GMT +5:30) New Delhi	

- 2. Click Edit
- 3. Make the required changes

4.

Account Information

First Name	First name of the Account User. If account information is imported via LDAP or Active Directory, First Name will not be editable.
Last Name	Last name of the Account User. If account information is imported via LDAP or Active Directory, Last Name will not be editable.
Username	Username name of the Account User.
Password	Password reset.
Confirm Password	Re-enter the password to confirm correct entry of the selected password.
Password Question One/Two	Select questions that are to be asked when the Lost Password link is selected in the Login Page and the challenge questions are required to verify Users details before re-sending the system password.
	(These fields are displayed when Password Questions option has been enabled in Setup>Privileges>System.)
Answer One/Two	Enter the answers to the questions.
Default Portal	Where a User has more than one Role, the Default Role will be the Role used at login.
Default Home	The User can define the tasks Home tab or the Dashboard tab as the default landing page when they log into the system.
Preferred Communication	Select Email or SMS as the preferred method of receiving updates from the system.
	This field is visible if the User also has a Customer Role in the system and the Customer Defined Contact option is enabled in Setup>Privileges>CustomerTab. It only applies, when the Team has the Customer Notification option set to Customer Defined.
Email	Email address for the Account User.
Receive Notification	When set to No the User will not receive system- generated emails when requests are created or updated. Irrespective of the setting in this field when a request is escalated to a User, an email notification will be sent.
Phone, Mobile, Pager	Telephone, mobile and pager details. If these fields are imported via LDAP or Active Directory they will not be editable.

Account Information	
Date Format	Preferred date format.
Country	When Country details are entered, if the Country has States, a States list will be displayed. (If the option is not available is the displayed list, additional options can be configured by the Administrator in Setup>Localization> Regions.)
Time Zone	User's Time zone
Available for Chat	Using this option Users can select whether they are available for a Chat request, when the Chat facility is enabled.

5. Click Save.

5.1.2 Receiving Email

If a User does not wish to receive email notifications when they are assigned a new request, or when changes are made to a request (i.e., a new request Note has been logged by the Customer) set the Receive Email option to No.

It should be noted that regardless of what is selected for the Receive Email option, if a request is escalated to the User, a notification email is forwarded to them by the system.

5.2 Changing Roles

If a User is assigned more than one Role in the application, they can switch to another Role after logging into the system that provides the User access to their assigned Default Portal.

The User Roles of Supervisor or Technician, Finance and Manager are consolidated within one User view. Therefore, if a User is assigned Finance, Manager and Supervisor/Technician access, they can view all functionality related to these Roles within the User view. If the User is also assigned Admin and Customer access, next to their login name, the options of Setup and Customer will be displayed.

[setup] [Customer] System Supervisor

The Administrator can access the administrator functionality within the Setup view. If the Administrator is also assigned User and Customer access, next to their login name, the options of User and Customer will be displayed.

Users or Administrators who are also assigned Customer access can view the Customer Portal through the Customer link displayed in the sub-menu bar. Whilst logged in as the Customer, the options of User and Admin Portal will be displayed within the Customer Portal sidebar Menu.



To move to another User Role portal:

~

- 1. Log in using the credentials for the default User Role
- Click on the Setup/User/Customer link, as required. The screen defaults to the selected functionality.

5.3 Alerts

Alerts are an internal mechanism used by Administrators to notify Users about important issues relevant to them or their environment. System generated Alerts are created for Administrator Users when:

- An ADS/LDAP sync has been performed
- An AMIE Item import has been completed
- SLA warnings and breaches.

Alerts generated within the My Account tab can act as reminders or notifications for personal use, for a specific User, or for Users of a particular Role. Alerts can be scheduled to be published and dismissed.

Viewing Alerts

When an Alert is received, the Alert icon flashes in the top right corner, next to the login name:



To view a received Alert:

1. Click on the icon

The Alert screen opens with all current Alerts. The icon in the first column indicates whether the Alert is Information, a Warning or Urgent.

lert	5			,
Alert	ts			
D D	Publish	SS Feed	≣ Title	E
	01/06/16 16:25	Warning	Alert1	_

- 2. Click on the date link in the Publish column to view the details of the Alert
- 3. Click Done to close and retain the Alert

Or, select Dismiss to delete it from the pop-up window and disable the flashing icon

4. To dismiss one or multiple Alerts within the Alerts list, check the boxes next to the relevant Alerts and then select the Dismiss option

Alerts				×
Alerts	;			
Dis	imiss RS	iS Feed		
	Publish	₹ Severity	≣ Title	≣
V 💧	01/06/16 16:25	Warning	Alert1	
			1 - 1 of 1 Results	

5. To subscribe to RSS feeds for Alert updates, select the RSS button.

5.3.1 **Creating Alerts**

To create an Alert:

- 1. Select Home>Alerts
- 2. Select New

The Alerts editor appears.

- 3. Enter a Publish and Dismiss date

4.			
	Alert Details	Description	
	Created	The current date and time.	

Alert Details	Description
Publish	The date on which the alert is published. Use the calendar icon to the right of the field, to select a Publish date.
	Set to a date and time in the future for publishing the Alert.
Dismiss	The date the Alert ceases to be available. Use the calendar icon to the right of the field, to select a Publish date. On this date, the Alert will disappear from a User's Alert list.
Severity	The type of Alert to be published. The choices are:
	 Information – for general Alerts
	 Warning – to warn Users of potential issues
	 Urgent – to publish an urgent actionable message.
	The icon appearing with the message will depend on the type of Alert.
User	The type of Users to receive the Alert, which include:
	 Specific Customer or User
	User Role
	Personal Alert
	 Organizational Units
	Public.
	In the Find User or Customer list, click search to select the recipient from the drop-down list.
	An Alert sent to a User Role will go to all Users with that Role.
	A personal Alert appears on the User's own screen at the Publish date.
	A Public Alert appears when the Public Alert link is selected on the Login Page.
Title	Enter the title of the Alert.
Message	Enter the main content of the Alert.

- 5. Select the Severity for the Alert message
- 6. Select the User

Options include selecting User Roles, a specific User or personal.

- 7. Enter a Title for the Alert
- 8. Enter the Message content for the Alert
- 9. Click Save

Alerts with current Publish dates will be sent immediately.

Alert Editor	r
Created	01/08/16 11:21
Publish	01/08/16 11:21
Dismiss	01/15/16 00:00
Severity	Information
User	User Role 💌
	Supervisor Technician Partner
	Manager Finance Customer
Title	user alert update
Message	Format Font Family Font Size
	$\underline{\mathbf{A}} \bullet \mathbf{B} \mathbf{I} \underline{\mathbf{U}} \mathbf{A} \in [1]{\mathbb{H}} \stackrel{\text{\tiny def}}{=} \frac{1}{2} \mathbf{i} \in [1]{\mathbb{H}} \stackrel{\text{\tiny def}}{=} \frac{1}{2} = [1]{\mathbb{H}} \stackrel{\text{\footnotesize def}}{=} \frac{1}{2} = [$
	To receive alert updates on RSS feed.
	Path: p Words:7
	Cancel Save

10. Click Done.

5.3.2 Deleting Alerts

Alerts can be deleted within the List View by selecting one or more Alert checkboxes and clicking the Delete button. Alternatively, they can be deleted individually within the Alert Editor information screen by selecting the Delete button.

5.3.3 SLA Breach Alerts

Alerts are also used by the system to inform Users about SLA breaches. The Alert will be addressed to the User and assigned to the request that has failed to reach an SLA target. The breach will contain information such as the affected Request ID, and how the SLA has been breached.

6 Setup

The Setup enables the Administrator to configure the application and control the behavior of the system. You must configure the Email, LDAP, Database, ZENworks and ZENworks Import for the Service Desk system up and running.

This section includes the following:

- Section 6.1, "Setup Tab," on page 431
- Section 6.2, "Email," on page 432
- Section 6.3, "Custom Fields," on page 485
- Section 6.4, "Privileges," on page 491
- Section 6.5, "Customize," on page 508
- Section 6.6, "Localization," on page 518
- Section 6.7, "Licenses," on page 537
- Section 6.8, "Database," on page 541
- Section 6.9, "Backing-up and Restoring Internal PostgreSQL Database," on page 544
- Section 6.10, "LDAP," on page 545
- Section 6.11, "PSS," on page 563
- Section 6.12, "AAF Sources," on page 565
- Section 6.13, "SSO," on page 565
- Section 6.14, "Reports," on page 571
- Section 6.15, "Billing," on page 574
- Section 6.16, "AMIE," on page 608
- Section 6.17, "ZENWorks," on page 680
- Section 6.18, "ZENworks Import," on page 683
- Section 6.19, "Item Reconciliation during item import from ZENworks," on page 692

6.1 Setup Tab



The following options are included:

- Email configuration, including customizing all email templates used by the system
- Customize fields and Portal messages
- Integrate the system with external applications, define Open ID options and enable outbound Web Services functionality

- Define User, Customer, Request and System privileges
- Localize the application, including language of content automatically generated by the system, public holidays and time-zones for the scheduling functionality
- Enable the Billing module for using Contracts, Purchase Orders and SLA costs
- Import Items via a.CSV file and AMIE

The tabs available within Setup include:

- Email
- Custom Fields
- Privileges
- Customize
- Localization
- Licenses
- Database
- LDAP
- SSO
- Reports
- Billing
- AMIE
- ZENWorks

6.2 Email

- Section 6.2.1, "Email," on page 432
- Section 6.2.2, "Setup," on page 440
- Section 6.2.3, "Templates," on page 444
- Section 6.2.4, "SMS," on page 481
- Section 6.2.5, "Email Log," on page 483
- Section 6.2.6, "User Directory or Domain Migration," on page 484

6.2.1 Email

The Email sub-menu option is used to configure the system's incoming and outgoing email settings.

NOTE: •The MS MODERN AUTH and OAuth base authorization is available only from ZENworks Service Desk 8.3.1.

 If you had configured OAuth based authentication (OAuth or MS Modern Auth) for Email in earlier versions using provided FTF, then after upgrade, you need to configure the settings again in the Email Setup page (Setup >Email > Server). The system uses email to notify Customers about:

- Login information
- Request creation, updates and closure
- Contract renewals
- Invoice management
- Purchase Order creation

Emails notify Service Desk Users of:

- Request allocation
- Escalations and SLA reminders, warnings and breaches
- Amendments to requests made by other Users
- Addition or removal of requests from Groups
- Required request approvals

For detailed information regarding managing requests using email polling see Email Polling and Request Creation in the Appendices of this guide.

Server Tab

To enter email server details:

1. Select Setup >Email > Server

Server Setup Templates SMS Log Receiving Incoming Server Image:	
Incoming Server I IMAP IMAPS POP3 POP3S MS MODERN AUTH Protocol IMAP IMAPS POP3 POP3S MS MODERN AUTH Port (Leave blank for default) Use OAuth User Name I Password I Password I Sending Reply To support@_mycompanycom mail_mycompanycom	
Protocol IMAP IMAPS POP3 POP3S MS MODERN AUTH Port (Leave blank for default) Use OAuth User Name Password Sending Reply To Support@_mycompanycom mail_mycompanycom	
Port (Leave blank for default) Use OAuth User Name Password Sending Reply To support@_mycompanycom Outgoing Server mail_mycompanycom	
Use OAuth User Name Password Sending Reply To Support@_mycompanycom Mailmycompanycom	
User Name Password Sending Reply To support@_mycompanycom Outgoing Server mail_mycompanycom	
Password Sending Reply To Outgoing Server mailmycompanycom	
Sending Reply To support@_mycompanycom Outgoing Server mailmycompanycom	
Reply To support@_mycompanycom Outgoing Server mailmycompanycom	
Outgoing Server mailmycompanycom	
Authentication None Login SSL TLS TLS (SSL) MS MODERN AUTH O	
	\uth
Port (Leave blank for default)	
User Name	
Password	
Reset Test	ave

2. Enter the Receiving and Sending Details:

Receiving	
Incoming Server	The incoming server used by the system to receive emails.
Protocol	The protocol of the incoming email account IMAP, IMAPS, POP3, POP3S and IMAPS with Microsoft Modern Auth.
	OAuth based authentication is available for IMAPS and POP3S.
	When you select the secured protocol such as IMAPS, POP3S or MS MODERN AUTH, a certificate icon will be displayed, click the icon to view the certificate of the server.
	For more information on Microsoft Modern Auth, see Microsoft Modern Auth.
	For more information on OAuth based authentication, see OAuth Based Authentication.
Transport	This option is visible if IMAP or POP3 has been set for the email account protocol. Select to secure the transport layer to encrypt the whole channel, if relevant to your email server configuration.
Port	Can be left blank for the default, or enter a port.
	Enter a timing interval if polling is enabled.
	This will be the period of time the system will use to check if any messages need to be polled.
User Name	Enter User Name for the incoming mail server.
Password	Enter the account Password.
Sending	
Reply To	The default system email address and the account that the email polling feature uses.
Outgoing Server	The outgoing (or SMTP) server used by the system to send emails.
	When you select the authentication as SSL, TLS (SSL), MS Modern Auth or OAuth, a certificate icon will be displayed, click the icon to view the certificate.

Receiving	
Authentication	If your SMTP server requires sender identification before sending email select between Login, SSL, TLS, MS Modern Auth, or OAuth depending on the server configuration. Additional fields might be displayed based on the selected authentication method.
	For more information on Microsoft Modern Auth, see Microsoft Modern Auth.
	For more information on OAuth based authentication.
Port	Enter a different port, or leave blank to use the default.
User Name	When authentication is required, enter the SMTP authorization details.
Password	When authentication is required, enter the account password.

3. Click Save.

Reset Button

Reset

To delete the content in all fields within the Server tab, select the Reset button. The system will display a message requiring verification of the Reset selection. Click OK to verify and clear all fields.

Test Button

Test

To test if the email configuration is correct for sending email, click Test. This will send a message to the Administrator, using the Outgoing Server details that have been provided.

Microsoft Modern Auth

Microsoft Modern Auth uses IMAPS for incoming and SMTP for sending emails.

Following are the server settings for default Microsoft Office 365 configuration:

- Authorization Server: https://login.microsoftonline.com
- Incoming Server (IMAPS): outlook.office365.com
- Outgoing Server (SMTP): smtp.office365.com

Ensure that you verify these settings with respective service provider.

Prerequisites:

1. Register ZENworks Service Desk as an application with the Azure Active directory.

For more information, see Registering an Application or any documentation provided by the service provider.

- 2. Obtain OAuth parameters (Tenant Id, Client Id) from the Azure for the registered ZSD application.
- 3. In the Azure portal, open the registered application, go to Authentication, and ensure that you set Allow public client flows to Yes.
- 4. Ensure that the email address configured can access Microsoft 365 email using IMAP and Authenticated SMTP.
- 5. Ensure that the email address configured does not have multi-factor authentication enabled.
- 6. Ensure that for the registered application you provide the following API permissions (Microsoft Graph) of type Delegated and Grant admin consent.
 - IMAP.AccessAsUser.All
 - SMTP.Send
- **NOTE:** If multi-factor authentication cannot be disabled or you do not want to use public client flows, then you can use OAuth Based Authentication. The OAuth Based Authentication works with O365 Modern Authentication.
 - Any changes made in the Azure portal might take some time to reflect in other places.

Receiving								
Incoming Server							R	
	IMAP	IMAPS	POP		P3S MS M	IODERN AUTH		
Protocol	IMAP	IMAPS	PUP:	PU	P35 MS N	ODERN AUTH		
Port		(Leave	blank for o	(tefault				
Authorization Server								
Tenant Id								
Client Id								
User Name								
Password								
Sending								
Reply To	support@	_mycomp	any_com					
Outgoing Server	mail_my	company_	com				R	
Authentication	None	Login	SSL	TLS	TLS (SSL)	MS MODERN	AUTH	OAut
Port		(Leave	blank for o	(fiufault)				
User Name								
Password								
Authorization Server								
Tenant Id								
Client Id								

OAuth Based Authentication

This option is available for IMAPS and POP3S for receiving emails and SMTP for sending emails.

Prerequisites:

1. Register ZENworks Service Desk as an application with the respective email provider.

For more information, see any documentation provided by the service provider.

NOTE: •While registering the application, use the following URLs as the redirect URI of type Web, Web Server, or Web Application:

https://<FQDN>/LiveTime/WebObjects/LiveTime.woa/wa/oauthlanding

- Ensure that you add redirect URIs of all the public interfaces (IP or domain name) of ZENworks Service Desk.
- 2. Obtain OAuth parameters (Client ID, Client Secret, OAuth Scope, Auth URL, Token URL).
- 3. Ensure that the email address configured can access email using IMAP/POP3 and SMTP.

Server S Receiving							
Incoming Server] 🖪
	IMAP	IMAPS	POP	3 POF	20 MO	MODERN AUTH	1
Protocol	INTE	INPA S	101	5 1 101	00 100	IODENITAOTT	
Port		(Leave	blank for	default)			
Use OAuth	2						
User Name							
Client Id							
Client Secret							
OAuth Scope							
Auth URL							R
Token URL							Get Tok
Access Token							
						h	
Refresh Token							
						h	
Sending							
Reply To				n			
Outgoing Server	mail_my	company_	com				R
Authentication	None	Login	SSL	TLS	TLS (SSL)	MS MODERN	AUTH OAuth
Port		(Leave	blank for	default)			
User Name							
Client Id							
Client Secret							
OAuth Scope							
							-
Auth URL							R
Token URL							Get Tok
Access Token							
Refresh Token							

After specifying all the details, click Get Token. You will be redirected to the provider UI for authentication. After successful authentication, you will be redirected back to ZSD portal, where generated tokens will be displayed. Copy the respective tokens to the email configuration page, save the changes and then test the connection.

NOTE: If tokens are expired, then ZENworks Service Desk will automatically try to regenerate the token. If the regeneration of token fails, an alert will be displayed to the administrator to check the configuration and regenerate the tokens using the above steps again.

Following are the default settings for Microsoft Office 365 and Gmail:

NOTE: Ensure that you verify these settings with respective service provider.

0365

- 1. Auth URL: https://login.microsoftonline.com/<your_tenant_id>/oauth2/v2.0/ authorize?prompt=consent
- 2. Token URL: https://login.microsoftonline.com/<your_tenant_id>/oauth2/v2.0/token
- 3. Scopes:
 - Sender (SMTP): https://outlook.office.com/SMTP.Send offline_access
 - Receiver (IMAPS): https://outlook.office.com/IMAP.AccessAsUser.All offline_access
 - Receiver (POP3S): https://outlook.office.com/POP.AccessAsUser.All offline_access

Gmail

- 1. Auth URL: https://accounts.google.com/o/oauth2/v2/ auth?prompt=consent&access_type=offline
- 2. Token URL: https://oauth2.googleapis.com/token
- 3. Scopes:
 - Sender (SMTP): https://mail.google.com/
 - Receiver (IMAPS/ POP3S): https://mail.google.com/

6.2.2 Setup

The Email Setup tab allows the Administrator to define the behavior of the email polling functionality.

To set the email functionality details:

1. Select Setup >Email > Setup

Email	
Server Set	up Templates SMS Log
General Settings	
Email Polling	Yes No
Include Banner	Yes No
Сору Туре	СС ВСС
Requests	
Create/Update via Email	(Uses Team emails aliased to this account)
Notify Alternate Team	Yes No
Self Mail	Yes No
Include Request Status	Yes No
Include Request Priority	Yes No
Include Request Subject	Yes No
Notes	
Parse Instance Prefix	Yes No
Default Recipients	Customers Technicians
Default Locale	English
	Save

2. Define the settings in line with your organizational requirements:

3. _____

General Settings	
Email Polling	Enable Email Polling to allow the application to check for new email received in the mailbox on the incoming server defined within the Server tab.
	For new messages that are received, the system will send a message to the sender acknowledging their message. System generated messages are customized within the Setup>Email>Templates tab.
	NOTE: This option will be locked down if the Create via Email option is selected.
Interval	Enter the time period the system will use to check the incoming server for any messages sent to the support system.
Include Banner	Select Yes to include a banner within emails sent from the system.
	The banner will be derived from: Setup>Customize>Setup>Public Banner.
Email Errors	When enabled, details of any system errors occurring while the application is running will be sent to the development lab.
Сору Туре	For emails sent within requests, define if the Technician is to be copied or blind copied the correspondence.
Requests	
Create/Update via Email	Select this option to enable requests to be created from emails addressed to the support system and Team addresses aliased on the email server. (See: Email Polling.)
	NOTE: Email Polling will be locked down to Yes when this option is selected and the Accept Anonymous option is displayed.
Accept Anonymous	When enabled, the system will create requests from emails received from email addresses that do not exist in the application's database. (Refer below for more information regarding this setting.
Notify Alternate Team	When enabled, and if there is more than one Team created for a Process, within the Summary tab of a request the Alternate Team field is displayed. Members of the Alternate Team will be notified relative to the settings defined for the Current Team, and for New Notes, if Technicians is selected in the New Notes screen.

Self Mail	When set to Yes, new Notes created by a Technician or Customer are also sent to them when they save the Note.
Include Request Status	When enabled, the system will include the request Status within the Email Subject line of any correspondence sent from the system, regarding a request.
Include Request Priority	When enabled, the system will include the request Priority within the Email Subject line of any correspondence sent from the system, regarding a request.
Include Request Subject	When enabled, the system will include the content from the Subject line of a request within the Email Subject line of any correspondence sent from the system, regarding a request.
Notes	
Parse Instance Prefix	The Instance prefix is used to process email correspondence from multiple instances. If this is not required, set the option to No.
Default Recipients	Within the new Notes editor of requests, the default email settings can be defined for the recipient groups. Define the groups who are more likely to be sent every New Note created related to a request.
Default Locale	Set the default language file to be used for email correspondence. The option set is applied to the Email Locale field in the Customer and User Information screens and can adjusted on a per account basis, as required.
	NOTE: The content for automated emails sent from the system for languages other than English, is defined within the Localization>Content tab.

4. Click Save.

NOTE: Ability to configure maximum size limit for emails with attachments is introduced. You can configure the maximum size limit for emails with attachments by specifying the livetime.fileSizeLimit value within the system.properties file. By default, the value is set as 100 MB. After modifying the files, restart the ZENworks Service Desk service.

Receiving emails from anonymous email addresses

When the Accept Anonymous option is enabled, the system will create requests from emails received from email addresses not recorded in the application. This process is managed by the System User being assigned as the Customer, and the original sender being added to the email address list, in the Notify section.

It should be noted, that

enabling this option increases the likelihood of spam emails being converted into unwanted requests in the system. Email administrators should ensure that spam filtering is performed prior to the request being received in the inbox polled by the application. It is not the function of the service management tool to monitor, parse or filter emails prior to the creation of records based on the contents of the target inbox.

6.2.3 Templates

- "Email Templates" on page 444
- "Request Approval Process" on page 451
- "Email Parameters" on page 454
- "Email Summary Templates" on page 460
- "Keywords" on page 468
- "Error Messages" on page 473
- "Out of Office" on page 476
- "SMS Templates" on page 477

Email Templates

- "Configuring Full Email Templates" on page 445
- "Approval Messages" on page 451

Administrators can customize the content and template details for emails automatically generated by the system within the Templates tab.

The labels for the Templates are generated in English, but can be customized within the Setup>Localization>Content tab.

The filter views within the Templates tab include:

View Option	Description
Full Email Templates	Allows Users to customize the content and insert parameters of emails automatically generated and sent by the system.

View Option	Description
Email Summary Templates	Users configure the content of templates that are included in the automatically generated emails, which summarize the specific details of the matter at hand. See: Summary Templates
Email Keywords	Allows Users to enter alternative words for the system to use when sending mail and parsing emails received at the support email address.
	See: Keywords for a description of where the words are used by the system.
Error Message Templates	Allows the Use to customize the error messages automatically generated and sent by the system. See: Error Messages.
Out of Office	Allows the User to customize multiple Out of Office options for the system to identify in incoming email Subject lines, so it knows to ignore the email. See: Out of Office.
SMS Templates	Allows Users to customize the content and insert parameters for text messages automatically generated and sent by the system.

Content for the automatically generated email messages sent by the system is configured within the Full Email Templates filter screen of the Email > Templates tab. In addition to customizing the content of the messages, there is also the facility to insert parameters for specific details sourced from the database.

The template parameters, look and feel of email messages sent in regard to Knowledge Base Articles, Items, Requests, Invoices and Contracts are configured within the Email Summary Templates filter screen of the Templates tab.

Configuring Full Email Templates

To configure messages:

1. Select Setup>Templates>Full Email Templates filter

The Full Email Template filter screen is displayed.

Email	
Server	Setup Templates SMS Log
	Full Email Templates
Name	≜ Content
AccountInformation	Hello {{Full Name}},
	Below is your Account login information:
	Account Type: {{Account Type}} Username: {{Username}}
	To retrieve your password please use 'Forgot Password' on the main login page. Please contact the administration team if you have any further questions.
AccountInformationSubject	Your Account Information
ApproveChange	This RFC is pending your approval.
	Please access the Service Desk to approve the RFC manually.
	Alternatively, you may reply to this email: To Accept the RFC, include the words 'accept' or 'yes'. To Reject the RFC, include the words 'reject' or 'no'.
ApproveServiceRequest	This Service Request is pending your approval.
	Please access the Service Desk to approve the Service Request manually.
	Alternatively, you may reply to this email: To Accept the Service Request, include the words 'accept' or 'yes'. To Reject the Service Request, include the words 'reject' or 'no'.

Email Templates

AccountInformation	Sent when a Customer or User is emailed the login details of their account.
AccountInformation Subject	Content to be included in the Email Subject line when a Customer or User is emailed the login details of their account.
ApproveChange	Message sent to Managers when an RFC moves to an Approval State.
	The configured message must indicate to Managers that they are specific with their reply, using:
	The words 'accept' or 'yes', to Accept the Change
	The words 'reject' or 'no', to Reject the Change.
ApproveServiceRequest	Message sent to Managers when a Service Request moves into an Approval State.
	The configured message must indicate to Managers that they are specific with their reply, using:
	The words 'accept' or 'yes', to Accept the Change
	The words 'reject' or 'no', to Reject the Change.
ClosedPrefix	Included at the beginning of the email that is sent to a customer when a request is closed.
ClosedTechPrefix	Message template for an email sent to a technician when a request is closed.

Email Templates	
ClosedTechTimeout	Message template for an email sent to a technician when a request is closed automatically due to lack of customer response to the solution proposed by the technician.
ClosedTimeout	Used by the handshake facility and prefaces emails sent as Incident Note using the Propose button.
CloseRequest	Message included in the Email that uses the handshaking facility and proposes a Solution to the Customer.
CloseRequestLink	The message sent with the hyperlink to enable Customers to keep a request open after a possible solution has been sent to them. This template is used in conjunction with the CloseRequest message when the Handshaking facility is used to by a Technician to propose a Note as a solution.
CloseTech Request	Message template for an email sent to a technician after the Service Desk proposed a solution to the customer. It informs that the request will be closed if there is no action from the customer.
ContractExpired Message	Email sent to a Customer when a Contract has expired and a new request is logged or an existing request is still open when the expiration date is hit.
ContractTimeElapsed (Subject Line)	Subject line for ContractExpiredMessage, which is he email sent to a Customer when a Contract period has elapsed or all purchased support hours have been used.
ContractTimeLow	Email sent to a Customer when the amount of time remaining on a Contract triggers the low time percentage threshold. (The default percentage is defined in the Setup>Billing>Contracts tab.)
CreateChange	Included at the beginning of the email to a Customer when a Change Request is first created.
CreateIncident	Included at the beginning of the email to a Customer when an Incident is first created.
CreateProblem	Included at the beginning of the email to a Customer when a Problem is first created.
CreateServiceRequest	Included at the beginning of the email to a Customer when a Service Request is first created.
CreateTechChange	Message template for an email sent to a technician when a change request is created.
CreateTechIncident	Message template for an email sent to a technician when an incident is created.
CreateTechProblem	Message template for an email sent to a technician when a Problem request is created.
CreateTechServiceRequest	Message template for an email sent to a technician when a service request is created.

Email Templates	
InvoicePrefix	Included at the start of an email sent to the Customer with a newly created Invoice.
	(This email content is also used for the email sent to Customers when the Setup>Billing>Contracts option is enabled and the number of days for the Subscription "Contract Renewal Time" is triggered.)
ItemStatusChangePrefix	Included at the beginning of the email sent to a Customer when an Item Status has been amended and the option to notify customer is selected in the Item Information tab.
LDAPInformation	Sent when a new Customer or User is emailed the login details of their account after an authentication server synch.
NewAttachmentToTech	Sent to a User when a new attachment is added to a request in the Customer Portal.
NoAccount	This message is sent to a Customer when they have attempted to log an Incident via Email but are not registered with the system.
	NOTE: The Subject line of this email can be customized in the Error Message Templates filter of the Email>Templates tab.
NoContractCreate RequestSummary	Message sent to a Customer to inform them that work cannot commence on newly logged request as no contract is in place.
NoContractReminder Summary	Reminder message sent to a Customer to inform them that work cannot commence on newly logged request as no contract is in place.
NoteClosedPrefix	Email sent to a Customer when they have sent an email Note to the system, when a request was already closed.
NotePrefix	Included each time a new Note is associated with an existing request.
NoteTechPrefix	Message template for an email sent to a technician when a the customer follow-up is added as a note to an existing request.
PasswordLost	Sent when a Customer or User is emailed their account information for login as a result of their selecting the Forgot Password link on the Login Page.
PasswordQuestion	Sent when a Customer or User is emailed a challenge question for resetting their password for login as a result of their selecting the Forgot Password link on the Login Page. (The Password Questions option is enabled in the Setup>Privileges>System tab. The questions/answers are set within the Customer/User My Account Information screen.)
PasswordReset	Sent when a Customer or User is emailed their account information for login after their Password has been re-set within the Customer Information or User Information screen.

Email Templates	
PlannedOutagePrefix	Included in the email sent when an Item is scheduled to be taken offline.
RequestAccepted	Acknowledgement sent to the person responsible for a
Prefix	Request in an Approval State, when a Request is approved.
RequestDeescalate	When a request is manually de-escalated this message is sent
FromTo	to the newly assigned Technician.
RequestDeescalate	When a request is manually de-escalated this message is sent
NotAvailable	to the previously assigned Technician to let them know that the request is no longer available for them to work on.
RequestEscalateFromTo	When a request is manually escalated this message is sent to the newly assigned Technician.
RequestEscalateNotAvailable	When a request is manually escalated this message is sent to the previously assigned Technician to let them know that the request is no longer available for them to work on.
RequestReassignedManager	This message is sent when the Manager responsible for
Prefix	processing the approval of a request is changed and is sent to the previously assigned Manager.
RequestReassignedManager	The message included in an email when a request moves from
ToTechPrefix	a Manager Approval State to the newly assigned Technician User.
RequestReassignPrefix	When a request is reassigned this message is sent with the request details to the previously assigned User.
RequestReassignToPrefix	When a request is reassigned this message is sent with the request details to the newly assigned User.
RequestRejectedPrefix	Acknowledgement sent to the person responsible for a Request in an Approval State, when a Request is rejected.
RequestStatusChanged	The content of an email sent when the Status of a request is
Prefix	moved from Pending-No Contract to the default open state of the assigned Workflow. This is sent to the assigned Technician
RequestStatusChanged	The content of the sent when the Status of a request is moved
Subject	from Pending-No Contract to the default open state of the assigned Workflow. This is sent to the assigned Technician.
RequestWorkaround	Message sent when a Workaround is applied to a request in the Analysis tab and emailed to the Customer.
Responder	Message sent from the monitored email account when the system does not accept new requests via email.
Signature	The details included at the bottom of emails sent from the system.
	NOTE: Signatures can be customized on a per Team basis in the Setup>Localization>Content tab.

Email Templates	
SlaBreached	Email sent to the assigned User when an SLA is breached.
SlaBreachedSubject	The content in the Subject line of an email sent to an assigned User and Service Level Manager, and if configured within the SLA the Team Lead, when an SLA is breached.
SlaTimeElapsed	Sent to the assigned User and Service Level Manager, and if configured within the SLA the Team Lead, when an SLA Reminder/Warnings is triggered.
SlaTimeElapsedSubject	The content in the Subject line of an email sent to an assigned User and Service Level Manager, and if configured within the SLA the Team Lead, when an SLA Reminder/Warning is triggered.
SurveyCompleted	Thank you message automatically generated for Customers who have submitted a completed survey.
SurveyPrefix	Message sent when a Customer or User is invited to complete a survey.
SurveyReminderPrefix	Message sent to a Customer or User to remind them to complete a survey.

2. Click on the required message name link

The default text will be displayed.

3. Edit the message including inserting any relevant Parameters

ACCOUNT INFORMATION () Insert Parameter.	mail	
Account information () Insert Parameter. Format Font Family Font Size Fon	Server Setup Templates SMS Log	
Format Font Family Font Size Font Siz	ccount Information 🕕	Insert Parameter
▲ • B I U ABC := := := :: xa Full Name Hello {{Full Name}}, Full Name Below is your Account login information: Title Account Type: {{Account Type}} Username: {{Username}} To retrieve your password please use 'Forgot Password' on the main login page. Please contact the administration team if you have any further questions.	Format 🔹 Font Family 🔹 Font Size 💌 📾 🍏 🖬 אדוווג	
Hello {{Full Name}}, Title Username Below is your Account login information: Account Type: {{Account Type}} Username: {{Username}} To retrieve your password please use 'Forgot Password' on the main login page. Please contact the administration team if you have any further questions.	$\underline{\mathbf{A}} \star \mathbf{B} \mathbf{I} \underline{\mathbf{U}} \mathbf{ABC} \mid \Xi \Xi \mathbf{i} \equiv \mathbf{i}$	Full Name
Below is your Account login information: Account Type: {{Account Type}} Username: {{Username}} To retrieve your password please use 'Forgot Password' on the main login page. Please contact the administration team if you have any further questions.	Hello {{Full Name}},	Title
Username: {{Username}} To retrieve your password please use 'Forgot Password' on the main login page. Please contact the administration team if you have any further questions.	Below is your Account login information:	Usernanie
administration team if you have any further questions.		
Vath: p Words: 39 //		ontact the
	ath: p	Words: 39
ent when you email the user the account information for login.	ent when you email the user the account information for login.	
Restore Default	Restore Default	
Cancel Save	Cancel	Save

4. Click Save.

NOTE: Approval Change, Approval Service Request, Create Problem and Create Change, Create Service Request apply to Service Manager Only.

Approval Messages

As the system allows Managers to approve or reject RFCs and Service Requests via email, the automatically generated emails must include specific instructions for the Manager to include either the words "accept" or "yes" to approve the RFC, or "reject" or "no" to reject the RFC in their reply. This is essential as the system will only recognize these key words when it automatically processes the email reply sent by the Manager.

NOTE: This is only applicable to Service Manager.

To use the Manager Approval Process via email, the system's email set-up must include the activation of the Email Polling functionality and the relevant Team details must include an incoming email address.

Request Approval Process

As part of the Request Fulfillment approval process, Users that have a Manager Role and are assigned to a Service Request Team can approve or reject Service Requests. To allow a Manager to approve a Request they must be assigned to the Service Request Workflow Approval State. (See: Service Request Teams.) Then, when a Request is moved into an Approval State, the Manager is assigned the Request allowing them to view and reject or accept the Request.

The security of the approval process can be enhanced by forcing the assigned Manager to re-enter their User Name and Password when processing a request. This is achieved by enabling the Strong Authentication option for the Team. (See: Service Request Teams.)

The service management system allows Managers to approve a Request either via the application's interface or email.

Accept or Reject a Service Request via the application

- 1. Select the Request tab
- 2. Select the filter option Pending Approvals

From the list provided select a Request ID hyperlink.

3. Click Edit

The Accept and Reject will be available to process the Request.

Service Request	
Team	Service Request Team
😤 Workflow	Service Request Workflow
Status	Approval Required
Next Action	2 2

4. Select the Next Action option

Click \gtrsim (Accept) or \gtrsim (Reject) button to move the Service Request into the relevant predefined state and re-assign the Request to a Technician allocated to the status. 5. Enter Authentication details, if prompted

When the Strong Authentication option is enabled for the Change Team associated with the request, an Approve Change Request window is displayed prompting the User to enter their Password details. Enter your Password and select the Authenticate button and click **x** to close the pop-up window.

6. Enter additional details in the Notes Tab, if relevant

A Notes window is displayed to allow the Manager to add detailed information regarding the approval option selected.

Add Note	×
Note Time + 💌 0 (Minutes) 01/20/16 10:22	Select a template
Format • Font Family • Font Size • 🕬 🍏 🕅 HTML	
<u>A</u> • B I <u>U</u> ↔ Ξ ⋮ = ↔ Ξ ≡ ≡ x, x'	
Initial Description Change Request - Item has been marked for creation	
Path: p	Words:10
Attachments Visibility O Private	e 💿 Public
Create Knowledge 🔘 Yes	© №
Solution	Draft Add Note

7. Click Add Note.

Note that the Manager User will no longer be able to edit the Request after the selection is made, and the Request will continue through the Service Request Workflow Lifecycle.

8. NOTE: If the Approval State is configured to be an Item Details Editable state, the Manager can amend the Item details when in this State.

Accept or Reject a Request via email

To use the Manager Request approval process via email, the following configuration must be in place:

The Administrator must configure the system Setup>Email screens to include:

- Email Polling functionality
- Create via Email option
- Customise the ApproveServiceRequest email content, as required

The Supervisor must also include an incoming email address for the Service Request Team.

Email	
Server Set	tup Templates SMS Log
General Settings	
Email Polling	Yes No
Interval	1 (minutes)
Include Banner	Yes No
Сору Туре	CC BCC
Requests	
Create/Update via Email	(Uses Team emails aliased to this account)

When a Service Request is escalated to an Approval State, an email is sent to the assigned Manager User informing them that a Request is pending approval. The Manager can approve or reject the Service Request by simply replying to the escalation email using the words Accept /Yes or Reject/No.

When the system polls for incoming email, the Manager's response is automatically applied to the relevant Request and based on the Manager's response, the Request is routed to a Technician allocated to the next Workflow State. The Manager is also sent a confirmation email informing them that their selected action has been applied to the Request.

Example of email sent to Manager:

This Service Request is pending your approval.

Please access the Service Desk to approve the Service Request manually.

Alternatively, you may reply to this email: To Accept the Service Request, include the words 'accept' or 'yes'. To Reject the Service Request, include the words 'reject' or 'no'.

Service Request Information	
Service Request #:	100016
Date Opened:	11/25/09 13:01 (MM/dd/yy HH:mm)
Classification:	General
Technician:	Manager User
Item #:	100002
Item Type:	Service Desk
Identifier:	
Customer:	Dan Springer
Org Unit:	
Customer Room:	
Country:	
Due Date:	11/25/09 16:01
Description:	Request to update to Microsoft Vista.

Email Parameters

The drop-down options included in the Email Parameters lists used within the Full Email Templates throughout the application, are drawn from the following parts of the system:

Parameter options for Account Information, LDAP Information, Password Information templates:

Parameter	Source
Account Type	The Default User Role derived from the Customer or User information screen.
First Name	Derived from Customer or User information screen.
Full Name	Derived from Customer or User information screen and combines the First and Last Name.
Last Name	Derived from Customer or User information screen.
Password	Derived from Customer or User information screen.
Title	Derived from Customer or User information screen.
	NOTE: This option is visible if Enable Titles is selected within the Admin>Setup>Privileges>Customer.
Username	Derived from Customer or User information screen.

Parameters for the request, Approve Change, Approve Service Request, Closed, Closed Timeout templates:

Parameter	Source
Classification	Drawn from the Classification field, in the Summary tab of a request.
Close Date	Shows the Close Date as recorded in the Service Terms information of the request.
Country	Derived from the Country field window in the Customer Tab of a request.
Customer First Name	Derived from the Customer Field in the Summary tab of a request.
Customer Last Name	Derived from the Customer Field in the Summary tab of a request.
Customer Name	Derived from the Customer Field in the Summary tab of a request and combines the First and Last Name.
Customer Phone	Derived from the Contact Phone Field in the Summary tab of a request.
Customer Room	Derived from the Item Room Field in the Summary tab of a request.
Date Style	Detail drawn from the Admin>Setup>Privileges> Customer tab.
Due Date	Derived from the Service Terms window in the Summary Tab of a request.
Email Locale	Derived from the Contact tab of the Customer Information details.

Parameter	Source
FSC Date	Derived from the Service Terms window in the Summary Tab of a Change Request.
Handshaking Close Days	Derived from the Org Unit associated with the Customer or number of default days defined in the Setup>Privileges>Requests tab.
Identifier	Derived from the Item Identifier Field in the Summary tab of a request.
ltem #	The Item Number is derived from the Item details recorded in the Customer Tab of a request.
Item Type	The Item Type is derived from the Item details recorded in the Customer Tab of a request.
Last Note ID	Shows the system generated Note identification number as a hyperlink, for the Note last added to a request. When clicked by the Customer or User, defaults to the request information screen for that request inside the system.
Notes	Details the number of Notes added to a request.
Open Date	Derived from the Service Terms window in the Summary Tab of a request.
Org Unit	Derived from the Org Unit field window in the Customer Tab of a request.
Priority	Derived from the Priority Details as recorded in the Summary tab of a request.
Process	Shows if the request is a Service Request, Incident, Problem or Change.
Request Description	Derived from the initial Description entered for the request, as recorded in the Summary tab.
Request ID	Shows the system generated request identification number.
Request URL	Shows the request identification number as a URL to allow the Customer to enter the system within the specific request screen by clicking the URL.
Subject	Derived from the Subject entered for the request that is populated from an Email Subject line or directly into the application, and recorded in the Summary tab.
Team	Shows the Team assigned to manage the request.
Team Phone	Display the Team telephone number as recorded in the Team Information screen.
Technician First Name	Shows the name of the Technician assigned to the request.

Parameter	Source
Technician Last Name	Shows the name of the Technician assigned to the request.
Technician Name	Shows the name of the Technician assigned to the request and combines the First and Last Name.
Title	Derived from Customer or User information screen.
	NOTE: This option is visible if Enable Titles is selected within the Admin>Setup>Privileges>Customer.

Parameter available in Contract Time templates:

Parameter	Source
Threshold	Draws the percentage from the Threshold field in the Setup>Billing>Contracts tab.

Options for the Invoice templates:

Parameter	Source
Adjustment	Drawn from the Cost Calculations field, and is the amount that is deducted from the sub-total.
Customer First Name	Derived from the Customer Details Name field on the invoice.
Customer Last Name	Derived from the Customer Details Name field on the invoice.
Customer Name	Derived from the Customer Details Name field on the invoice and combines the First and Last Name.
Customer Title	Derived from Customer Information screen.
	NOTE: This option is visible if Enable Titles is selected within the Admin > Setup > Privileges > Customer.
Delivery Status	Shows the assigned Delivery Status from the Invoice.
Due Date	Drawn from the Order Details of the invoice.
Entered By	Drawn from the Order Details of the invoice and combines the First and Last Name.
Entered By First Name	Drawn from the Order Details of the invoice.
Entered By Last Name	Drawn from the Order Details of the invoice.
Invoice #	Shows the system generated Invoice Number.
Invoice Date	Drawn from the Order Details of the invoice.
Invoice Status	Derived from the Status field of the invoice.

Parameter	Source
Line Items Total	Derived from the Costs section of the Invoice and shows the overall cost for Items on the invoice.
List of Item Type Line Items	When Items are associated with an invoice, shows the details recorded in the Item Type field.
List of Maintenance Contract Line Items	When Contracts are associated with an invoice, shows the details recorded in the Contract Type Name field.
Notes	Shows any details recorded in the Notes field of the invoice.
Order Date	Drawn from the Order Details and shows the date the invoice was received.
Org Unit	Derived from the Customer Details and shows the customer's associated Org Unit.
PO Number	Drawn from the Order Details and shows the Purchase Order number associated with the invoice.
Payment Date	Shows date of payment for the invoice based on details recorded in the Invoice Status section.
Payment Status	Shows if payment has been received for the invoice based on details recorded in the Invoice Status section.
Processed By First Name	Drawn from the Order Details and shows the name o the User who processed payment of the invoice.
Processed By Last Name	Drawn from the Order Details and shows the name or the User who processed payment of the invoice.
Processed By	Drawn from the Order Details and shows the name (combines the First and Last Name) of the User who processed payment of the invoice.
Shipping	Shows the Shipping Costs as derived from the Costs section of the invoice.
Shipping Date	Derived from the Status section of the invoice and shows the expected shipping date of goods.
Тах	Drawn from the Costs Section and shows the tax applied to the invoice.
Tax Rate	Drawn from the Costs Section and shows the tax rate applied to the invoice.
Terms and Conditions	Shows details recorded in the Terms and Conditions field of the invoice.
Total	The Grand Total of the Invoice, including tax and any adjustments.

Parameter	Source
Tracking Number	Drawn from the Tracking Number field within the
	Status section of the Invoice.

Parameters for the Item Status Change template:

Parameter	Source
Category	Shows the Item Category from the Item Information tab.
Criticality	Shows the assigned Criticality of the Item as recorded in the Item Information tab.
Item Number	Shows the Item Number as recorded in the Item Information tab.
Item Type	Details the Item Type as entered in the Item Information tab.
Status	Shows the Status of the Item as recorded in the Item Information tab.

Parameter for the New Attachment template:

Parameter	Source
File Name	Allows the file name of the newly received attachment to be included in the email to the User.

Parameters for the Escalation templates:

Parameter	Source
Current Technician	Shows the name of the newly assigned Technician.
Previous Technician	Shows the name of the Technician who was previously assigned the request.
Process	Shows the ITIL Process of the request, i.e., Change, Incident, Problem or Service Request.
Request ID	Shows the Request identification number.

Parameters for the request Status update templates:

Parameter	Source
New Status	Shows the details of the newly assigned Workflow State.
Previous Status	Shows the Status name of the previously assigned to the request.
Process	Shows the ITIL Process of the request, i.e., Change, Incident, Problem or Service Request.
Request ID	Shows the Request identification number.

Parameters for the SLA templates:

Parameter	Source
Hr/Min	Shows the time as recorded in hours or minutes, based on the SLA configuration.
Name	Shows the name of the SLA.
Phase	Shows the SLA phase of Response Time, Restoration Time or Resolution Time.
Process	Shows the ITIL Process of the request, i.e., Change, Incident, Problem or Service Request.
Time Elapsed	Shows the amount of time passed for the phase of the SLA.
Time Limit	Shows the amount of total time associated with the phase of the SLA.

Parameters for the Survey templates:

Parameter	Source
Description	Shows the content included in the Description field of the survey.
Name	Shows the Title of the survey.
Number of Questions	Shows the number of questions included in the survey.

Email Summary Templates

Automated email messages sent in relation to requests, Knowledge Base Articles, Items, Invoices and Contracts include a summary table of information or template. The information included in these tables, parameters, look and feel are configured within the Email Summary Templates filter screen of the Templates tab.

Knowledge of HTML would be useful when customizing the templates, but is not mandatory.

Email		
Server	Setup Temp	lates SMS Log
		Email Summary Templates 💌
Name	<u>≜</u> Content	
ArticleSummary {{Article Type}} Information		
	{{Article Type}} #:	{{Article ID}}
	Created:	{{Created}}
	Overview:	{{Overview}}
	Content:	{{Content}}
GroupSummary		
	Group Information	
	Group #:	{{Group #}}
	Start Date:	{{Start Date}}
	Status:	{{Status}}
	{{List of Active Requests}	}
InvoiceSummary	Invoice Information	
	Invoice #:	{{Invoice #}}
	Invoice Status:	{{Invoice Status}}
	Order Date:	{{Order Date}}
	Invoice Date:	{{Invoice Date}}
	Shipping Date:	{{Shipping Date}}
	Due Date:	{{Due Date}}
	Payment Date:	{{Payment Date}}
	Delivery Status:	{{Delivery Status}}

The templates for messages that can be configured within this screen include:

Message	Description
Article Summary	Email that notifies User about the pending Review date of a Knowledge Base Article.
Group Summary	Email sent to the Users when a Request Group is created, updated or closed.
Invoice Summary	Email sent to a Customer that summarizes their Invoice information and included in all correspondence regarding the Invoice. This is forwarded with the InvoicePrefix content that is configured in the Email >Templates >Full Email Templates filter view.
	This template is also used for the email sent to Customers when the Setup > Billing > Contracts option is enabled and the number of days for the Subscription "Contract Renewal Time" is triggered.

Message	Description
Item Summary	Email sent to a Customer when a Service Item moves into an inactive State, when the email notification option is selected within the Item.
Maintenance Contract Summary	Email sent to a Customer including their service maintenance contract details.
Request Summary	Email sent to Users when a request is created or updated.
Survey Summary	The survey summary template is included in system generated emails regarding survey notification and reminders.

To customize the message template:

- 1. Select Setup > Email > Templates
- 2. Select the Email Summary Templates filter
- 3. Click the Template Name hyperlink

The HTML editor appears.

4. Modify the table, as required

As part of the customization, the Administrator can use system parameters included in the Insert Parameter drop down list. Using these options ensures the customized template includes the correct format for the information to be sent in the email.

lcon	Description
Insert Parameter	The drop-down list options ensure that the HTML correct format is used for these details to be included on the customized message.
Restore Defaults	Restores the System default email message.

- 6. Adjust the Date Style format, if relevant
- 7. Click Save

Template Field Options

ArticleSummary

This template is included in the system generated emails for Knowledge Base Article reviews.

Field	Source
Article ID	Knowledge Base Article number.
Article Title	Displays content drawn from the Title field.
Article Type	Shows if it is a general Article, Solution Workaround or FAQ.
Content	Drawn from the Title field of a KBA.
Created	Displays the date the Article was created.
Overview	Derived from the Problem field of a KBA.

GroupSummary

This template is included in system generated emails when a request group is created, updated and closed.

Field	Source
Description	Derived from the Description field on the Details tab of a requests group.
Group #	The identifying group number generated by the system for the request group.
List of Active Requests	Indicates the number of requests in an Active State contained in the request group.
Name	Drawn from the Name field on the Details tab of a request group.
Start Date	Is derived from the date that a request group is created.
Status	Derived from the Status field on the Details tab of a request group.

InvoiceSummary

The Invoice Summary template is used when the Email button is selected within the Invoice Editor screen and when an Invoice is created and updated.

Field	Source
Adjustment	Drawn from the Cost Calculations field, and is the amount that is deducted from the sub-total.
Customer Name	Derived from the Customer Details Name field on the invoice.
Customer Title	Derived from Customer Information screen.
	NOTE: This option is visible if Enable Titles is selected within the Admin>Setup>Privileges>Customer.

Field	Source
Delivery Status	Shows the assigned Delivery Status from the Invoice.
Due Date	Drawn from the Order Details of the invoice.
Entered By	Drawn from the Order Details of the invoice.
Invoice #	Shows the system generated Invoice Number.
Invoice Date	Drawn from the Order Details of the invoice.
Invoice Status	Derived from the Status field of the invoice.
Line Items Total	Derived from the Costs section of the Invoice and shows the overall cost for Items on the invoice.
List of Item Type Line Items	When Items are associated with an invoice, shows the details recorded in the Item Type field.
List of Maintenance Contract Line Items	When Contracts are associated with an invoice, shows the details recorded in the Contract Type Name field.
Notes	Shows any details recorded in the Notes field of the invoice.
Order Date	Drawn from the Order Details and shows the date the invoice was received.
Org Unit	Derived from the Customer Details and shows the customer's associated Org Unit.
PO Number	Drawn from the Order Details and shows the Purchase Order number associated with the invoice.
Payment Date	Shows date of payment for the invoice based on details recorded in the Invoice Status section.
Payment Status	Shows if payment has been received for the invoice based on details recorded in the Invoice Status section.
Processed By	Drawn from the Order Details and shows the name of the User who processed payment of the invoice.
Shipping	Shows the Shipping Costs as derived from the Costs section of the invoice.
Shipping Date	Derived from the Status section of the invoice and shows the expected shipping date of goods.
Тах	Drawn from the Costs Section and shows the tax applied to the invoice.
Tax Rate	Drawn from the Costs Section and shows the tax rate applied to the invoice.
Terms and Conditions	Shows details recorded in the Terms and Conditions field of the invoice.

Field	Source
Total	The Grand Total of the Invoice, including tax and any adjustments.
Tracking Number	Drawn from the Tracking Number field within the Status section of the Invoice.

ItemSummary

This template is included in system generated emails for Item Status changes:

Field	Source
Category	Shows the Item Category from the Item Information tab.
Criticality	Shows the assigned Criticality of the Item as recorded in the Item Information tab.
Item Number	Shows the Item Number as recorded in the Item Information tab.
Item Type	Details the Item Type as entered in the Item Information tab.
Status	Shows the Status of the Item as recorded in the Item Information tab.

MaintContractSummary

This template is included in system generated emails regarding the creation and update of service contracts.

Field	Source
Contract #	Shows the system generated Contract Number.
Contract Type	Specifies if the Contract is a Per Incident or Per Item Contract.
End Date	Includes the date the current Contract date ends.
Invoice #	Shows the system generated Invoice Number.
Remaining	Shows the amount of time remaining on a Contract.
SLA	Includes the name of the SLA included as part of the Contract.
Start Date	Shows the commencement date of the current valid Contract.

MaintContractSummaryByMonth

This template is included in system generated emails regarding the creation and update of service contracts that are automatically renewed on a monthly or quarterly basis.

Field	Source
Contract #	Shows the system generated Contract Number.
Contract Type	Specifies if the Contract is a Per Incident or Per Item Contract.
End Date	Includes the date the current Contract date ends.
Interval End Date	Shows the contract.
Interval Remaining	Shows the contract.
Interval Start Date	Shows the contract.
Invoice #	Shows the system generated Invoice Number.
Remaining	Shows the amount of time remaining on a Contract.
SLA	Includes the name of the SLA included as part of the Contract.
Start Date	Shows the commencement date of the current valid Contract.

OutageSummary

This template is included in system generated emails related to Planned Outages.

Field	Source
Outage Items	Shows the details of Items associated with the Outage.
Outage Reason	Displays the content of Reason field in the Outage information screen.
Outage Related Requests	Shows Requests related to the Outage.
Outage Schedule	Details the Start and End Date of the Outage.

RequestSummary

The request summary template is included in emails relating to the creation, update and closure of requests.

Field	Source	
Classification	Drawn from the Classification field, in the Summary tab of a request.	
Close Date	Derived from the Service Terms window in the Summary Tab of a request.	
Country	Derived from the Country field window in the Customer Tab of a request.	

Field	Source	
Customer Name	Derived from the Customer Field in the Summary tab of a request.	
Customer Phone	Derived from the Contact Phone Field in the Summary tab of a request.	
Customer Room	Derived from the Item Room Field in the Summary tab of a request.	
Date Style	Detail drawn from the Admin>Setup>Privileges> Customer tab.	
Due Date	Derived from the Service Terms window in the Summary Tab of a request.	
Email Locale	Derived from the Customer Information details screen and defines the language used by emails sent from the system.	
FSC Date	Derived from the Service Terms window in the Summary Tab of a Change Request.	
Handshaking Close Days	Drawn from the Admin>Setup>Privileges>System, unless overridden by the number of days defined in the Super>User> OrgUnit>Details tab.	
Identifier	Derived from the Item Identifier Field in the Summary tab of a request.	
Item #	The Item Number is derived from the Item details recorded in the Customer Tab of a request.	
Item Type	The Item Type is derived from the Item details recorded in the Customer Tab of a request.	
Last Note Id	Shows the system generated Note identification number as a hyperlink, for the Note last added to a request. When clicked by the Customer or User, defaults to the request information screen for that request inside the system.	
Notes	Details the number of Notes added to a request.	
Open Date	Derived from the Service Terms window in the Summary Tab of a request.	
Org Unit	Derived from the Org Unit field window in the Customer Tab of a request.	
Priority	Derived from the Priority Details as recorded in the Summary tab of a request.	
Process	Shows if the request is a Service Request, Incident, Problem or Change.	
Request Description	Derived from the initial Description entered for the request, as recorded in the Summary tab.	

Field	Source Shows the system generated request identification number.	
Request Id		
Request URL	Shows the system generated request identification number as a hyperlink. When clicked by the Customer or User, defaults to the request information screen for that request inside the system.	
Subject	Derived from the Subject entered for the request that is populated from an Email Subject line or directly into the application, and recorded in the Summary tab.	
Team	Shows the Team assigned to manage the request.	
Team Phone	Display the Team telephone number as recorded in the Team Information screen.	
Technician Name	Shows the name of the Technician assigned to the request.	

SurveySummary

The survey summary template is included in system generated emails regarding survey notification and reminders.

Field	Source
Description	Drawn from the Survey Description Field.
Name	Displays the Name given to the Survey.
Number of Questions	Shows the number of questions included on the Survey.

Keywords

Keywords are used by the system to identify how to handle inbound and outbound email from the system.

The following table includes a list of all Keywords that are used by the system, which can be customized, and where they in the appear in the application:

Keyword	Direction	Description
Accept	Inbound	Accept or Yes is used to Approve Requests and must be included in the approval email.

Keyword	Direction	Description		
Accepted	Outbound	Included in Subject line for emails generated when a request has been accepted and sent to the person responsible managing the approval.		
AddToGroup	Outbound	Not Used.		
Article	Outbound	Included in the Subject line of emails sent to Customers including an Knowledge Base Articles.		
Author	Outbound	Included in content of Forum update message.		
AutoReply	Outbound	Included in the Subject line of emails for error messages.		
ChangeRequest	Inbound	Customer must include in email		
	Outbound	Subject line when updating a Change Request.		
		Automatically included in Subject line of Change Request emails.		
ChatLog	Outbound	Used in the Subject line of emails sent to Customer with a copy of a chat transcript.		
Classification	Inbound	Included in Subject line with keyword "Item" e.g. Item Classification. Cannot be used alone.		
Closed	Outbound	Included in Subject line of email responding to request, e.g. Incident Closed.		
Contract	Outbound	Used in Subject line regarding Contract activity (i.e, Contract Active or Contract Low).		
Created	Outbound	Included in Subject line of email responding to creation of a request, e.g. Request (or Invoice) Created.		
Customer	Outbound	Keyword in Subject line of email regarding a Contract status, e.g. Customer Name Contract Active		
DeEscalated	Outbound	Included in Subject line of email to User regarding a request being de- escalated.		

Keyword	Direction	Description	
Deleted	Outbound	Included in Subject line of email regarding a deleted request (or Invoice), e.g. Request Deleted.	
Delivered	Outbound	Included in Subject line of email regarding an Invoice, e.g. Item Delivered.	
Details	Outbound	Included in Subject line of email responding to a request, e.g. Request (or Invoice) Details.	
Escalated	Outbound	Included in Subject line of email responding to request, e.g. Request Escalated.	
Forum	Outbound	Keyword in Subject line e.g. Forum Update	
Group	Outbound	Not used	
Hours	Inbound & Outbound	Used in emails when the system refers to hours. For example, SLA and Contract emails.	
Incident	Inbound	Customer must include in Subject line, when updating an Incident.	
	Outbound	Automatically included in Subject line for emails generated regarding Incidents.	
IncidentQueue	Outbound	Inserted as the technician name when a request is assigned to the request Queue and the Technician Name is configured as a parameter in the outgoing email.	
Invoice	Outbound	Keyword in Subject line, e.g. Invoice Created (or Details/ Deleted/Delivered).	
Item	Inbound	Keyword in Subject line, e.g. Item	
	Outbound	Classification.	
		Keyword in Subject line e.g. Item # Contract Active, or Item # Status Update	
Minutes	Inbound & Outbound	Used in emails when the system refers to minutes. For example, SLA and Contract emails.	
NewNote	Outbound	Included in content of email advising that a new Note has been added to a request.	

Keyword	Direction	Description
NewSolution	Outbound	Not used.
No	Inbound	Reject or No is used to Reject Requests and must be included in the rejection email.
OrgUnit	Outbound	Keyword in Subject line of email regarding contract status, e.g. OrgUnit Name Contract Active
PlannedOutage	Outbound	Included in Subject line of automated email notifications about planned Item outages.
Prefix	Inbound & Outbound	Included as prefix in email subject line.
Problem	Outbound	Automatically included in Subject line for emails generated regarding Service Requests.
Reassigned	Outbound	Included in the Subject line of emails sent regarding reassigned requests.
Received Message	Outbound	Included in content of email replying to Customer attempting to update a request that has already been closed. (Subject line Request closed.)
Reject	Inbound	Reject or No is used to Reject Requests and must be included in the rejection email.
Rejected	Outbound	Included in Subject line for emails generated when a request has been rejected and sent to the person responsible managing the approval.
Reminder	Outbound	Reminding the Manager to process a Request that is waiting for approval.
Resolution	Outbound	Included in Subject line for emails generated regarding SLA Resolution times.
Resolved	Outbound	Included in Subject line for emails generated regarding SLA Resolution times.
Response	Outbound	Included in Subject line for emails generated regarding SLA Respnse times.

Keyword	Direction	Description	
Restoration	Outbound	Included in Subject line for emails generated regarding SLA Restoration times.	
ReviewReminder	Outbound	In Subject line of email reminding User to review Article,	
		e.g. ReviewReminder Article #	
Service Request	Inbound Outbound	Customer must include in Subject line, when updating a Service Request.	
		Automatically included in Subject line for emails generated regarding Service Requests.	
SolutionCreated	Outbound	Included in Subject line of email to Customer when a solution has been created for an open request	
SolutionFound	Outbound	Included in Subject line of email to Customer when a solution has been found and applied to an open request.	
Status	Outbound	Included in Subject line for emails regarding , e.g. Item # Status Update	
SystemWarning		Outbound: Warning of unpaid invoice.	
Unknown	Outbound	Used in emails when the value of parameters selected for inclusion are not known.	
Unpaid	Outbound	Warning of unpaid invoice.	
Updated	Outbound	Included in Subject line of email, e.g. Request Updated.	
Yes	Inbound	Accept or Yes is used to Approve Requests and must be included in the approval email.	

Customize Keywords

To allow the system to recognize an alternative word for a System Keyword:

- 1. Select Setup>Email>Templates
- 2. Choose the Keywords filter view
- 3. Click on the relevant Name hyperlink

Email	
Server Setup Templates SMS Log	
Change Request 🕦	
Format 🔹 Font Family 🔹 Font Size 🔹 🖘 💑 нтпь	
$\underline{\mathbf{A}} \star \mathbf{B} \mathbf{I} \underline{\mathbf{U}} \mathbf{A} \in [:= := :::::::::::::::::::::::::::::$	
Change Request	
Path: p Words:2	1.
Restore Default Cancel Sa	ave

- 4. Enter the customized word
- 5. Click Save

Error Messages

Error Messages are automatically generated and sent by the system in relation to various application activities. The following table includes details for when each Error Message is used by the system:

Message	Description
ApprovalRequiredContent	The main content of an email sent to a Customer attempting to edit request, which is currently in "Approval" State. Such requests cannot be edited until approval is given.
ApprovalRequiredSubject	Email Subject Line content for ApprovalRequiredContent emails.
InvalidTeam	The main content of an email sent regarding the system receiving an email including an address and name of Team that does not match. For example, email may have been intended for Change Team but used Incident Team address, or vice versa.
NoAccessToltemContent	The main content of an email sent when the system receives an request via email that includes an Item# in the Subject line that the Customer does not have access.

Message	Description	
NoAccessToltemSubject	The Subject Line of an email sent when the system receives an request via email that includes an Item# in the Subject line that the Customer does not have access.	
NoIncidentFoundContent	The main content of an email sent by the system when it cannot find the Incident # referred to in the email.	
NoIncidentFoundSubject	Email Subject Line content for NoIncidentFoundContent emails.	
NoPermissionChangeContent	The body of the email sent when a Customer tries to log a Change Request via email and the"Create Change Requests" option is disabled in the Admin>Setup>Privileges>Customer tab.	
NoPermissionChangeSubject	The Subject line content included on NoPermissionChangeContent emails.	
NoPermissionIncidentContent	The body of the email sent when a Customer tries to log an Incident via email and the"Create Incidents" option is disabled in the Admin>Setup>Privileges>Customer tab.	
NoPermissionIncidentSubject	The Subject line content included on NoPermissionIncidentContent emails.	
NoPermissionProblemContent	The body of the email sent when a Customer sends request a Problem Management Team.	
NoPermissionProblemSubject	The Subject line content included on NoPermissionProblemContent emails.	
NoPermissionRequestContent	The body of the email sent when a Customer tries to log a Service Request via email and the Create Service Requests option is disabled in the Admin>Setup>Privileges>Customer tab.	
NoPermissionRequestSubject	The Subject line content included on NoPermissionRequestContent emails.	
NoServiceIncidentContent	The content of the email sent when a Customer tries to log an Incident for a Service by including the Item# in the Subject line of their email addressed to the Incident Team, and the"Service Incident" option is disabled in the Admin>Setup>Privileges>Customer tab.	
NoTeamFound	The main content of an email sent by the system when it receives an email sent a Team email address that is not in the system.	

Message	Description
NoUserFound	The Subject Line included on the NoAccount emails.
	NOTE: The content for emails sent by the system when it receives emails from addresses that do not exist in the system, i.e., NoAccount email, can be configured in the Full Email Templates filter of the Email>Templates tab.
RequestCreationErrorContent	The system generated email sent when an error occurs during the creation of request. An example of an error would be if the database becomes unavailable during the request creation process.
RequestCreationErrorSubject	The Subject line content included on the RequestCreationErrorContent email.
UnauthorizedApprove	The email sent when a Manager sends email attempting to approve change but does not have approval permission enabled.
UnrecognizedAction	The email sent when a Manager sends an email attempting to accept or reject a Change but does not use the keywords YES or ACCEPT, NO or REJECT.

To edit a Message:

1. Click on the required message name link

Email	
Server Setup Templates SMS Log	
No Access to Item (Content) 👔	
Format Font Family Font Size Font Size	
$\underline{\mathbf{A}} \cdot \mathbf{B} \mathbf{I} \underline{\mathbf{U}} \mathbf{A} \mathbf{E} \mid \mathbf{\Xi} \mathbf{\Xi} \mathbf{U} \mathbf{E} \equiv \mathbf{\Xi} \mid \mathbf{X}_{\mathbf{x}} \mathbf{X}^{\mathbf{x}}$	
Email creation is restricted to Items for which you have access rights.	
Path: p Words:12	
n Restore Default	
Cancel Save	

- 2. Update the message content
- 3. Click Save

Out of Office

Users can customize multiple Out of Office options within the application, which allows the system to identify incoming email Subject lines with this message in different languages. The system will ignore emails with this content in the Subject line of emails.

To add or edit out of office messages as an Administrator:

- 1. Go to the Setup tab
- 2. Move to the Email>Templates tab

Email			
Server	Setup Templates SMS Log		
New	Outo	f Office	•
Name	≜ Content		
OutOfOffice	out of office		
OutOfOffice	out of the office		
OutOfOffice	I'm away from my mail		
	1 - 3 of 3 Results		

- 3. Select the Out of Office option
- 4. Click New or select the relevant message link
- 5. Add or amend the Subject line content that is to be identified by the system

Email	
Server Setup Templates SMS	Log
Out of Office	
Format 🔹 Font Family 🔹 Font Size 🔹 🖘 💑 HTML	
$\underline{\mathbf{A}} \star \mathbf{B} \mathbf{I} \underline{\mathbf{U}} \mathbf{ABC} \mid \Xi \equiv \mathbf{I} \mathbf{II} \mathbf{II} $	
but of office	
Path: p	Words:3
👰 Restore Default	
Contains Starts With	
Delete Cancel	Save

6. Click Save

SMS Templates

The templated text and parameters for SMS messages sent from the system regarding requests and Item outages are configured within the SMS Templates filter screen of the Templates tab.

Template can be customized for the following messages sent from by the system:

SMS Templates	
ApproveChangeSMS	Message sent to Managers when an RFC moves to an Approval State.
ApproveServiceRequestSMS	Message sent to Managers when a Service Request moves into an Approval State.
ClosedRequestSMS	Included at the beginning of the email when a request is closed.
ClosedTimeoutSMS	Used by the handshake facility and prefaces emails sent as Incident Note using the Propose button.
CloseRequestLinkSMS	Message sent with the hyperlink to enable Customers to keep a request open after a possible solution has been sent to them. If the Customer clicks on the link, the automated close process is deactivated.
CloseRequestSMS	Message sent when the handshaking facility is applied and the Technician proposes a Solution to the Customer.
CreateRequestSMS	Message sent to a Customer when a request is created.
DeleteRequestSMS	SMS sent to a User when a request is deleted.
GroupCreateSMS	SMS sent to a User when a request group has been created in the system.
InvoicePrefixSMS	Message sent to a Customer with a newly created Invoice.
ItemStatusChangeSMS	SMS sent to a Customer when an Item Status is changed.
NewAttachmentToTechSMS	SMS sent to a Technician when a Customer uploads an attachment to a request in the Customer Portal.
NoteClosedPrefixSMS	SMS sent to when a new Note is added to a closed request.
NoteClosedSMS	Sent to a Customer when they have attempted to a Note to a request that is already closed.
NotePrefixSMS	Sent each time a new Note is associated with an existing request.
PlannedOutageSMS	Included in the SMS sent when an Item is scheduled to be taken offline.

SMS Templates				
RequestDeescalate	Message sent when a request is manually de-			
FromToSMS	escalated this message is sent to the newly assigned Technician.			
RequestDeescalate	Message sent when a request is manually de-			
NotAvailableSMS	escalated this message is sent to the previously assigned Technician to let them know that the request is no longer available for them to work on.			
RequestEscalateFromToSMS	Message sent when a request is manually escalated this message is sent to the newly assigned Technician.			
RequestEscalateNot	Message sent when a request is manually escalated			
AvailableSMS	this message is sent to the previously assigned Technician to let them know that the request is no longer available for them to work on.			
RequestReassignedManager	This message is sent when the Manager responsible			
PrefixSMS	for processing the approval of a request is changed and is sent to the previously assigned Manager.			
RequestReassignedManager	The message included in an email when a request			
ToTechPrefixSMS	moves from a Manager Approval State to the newly assigned Technician User.			
RequestReassignPrefixSMS	When a request is reassigned this message is sent with the request details to the previously assigned User.			
RequestReassignToPrefixSMS	When a request is reassigned this message is sent with the request details to the newly assigned User.			
RequestStatusChanged	The content of an email sent when the Status of a			
PrefixSMS	request is moved from Pending-No Contract to the default open state of the assigned Workflow. This is sent to the assigned Technician.			

To customize an SMS message template:

- 1. Select Setup > Email > Templates
- 2. Move to the SMS Templates filter

Email		
Server	Setup Templates SMS	Log
Name	≜ Content	Full Email Templates Full Email Templates Email Summary Templates
AccountIn formation	Hello {{Full Name}},	Email Keywords Error Message Templates Out of Office
	Below is your Account login information:	SMS Templates
	Account Type: {{Account Type}} Username: {{Username}}	
	To retrieve your password please use 'Forgot Password' or Please contact the administration team if you have any furth	
AccountInformationSubject	Your Account Information	
ApproveChange	This RFC is pending your approval.	
	Please access the Service Desk to approve the RFC manua	lly.
	Alternatively, you may reply to this email:	
	To Accept the RFC, include the words 'accept' or 'yes'.	
	To Reject the RFC, include the words 'reject' or 'no'.	

3. Select the Message Name hyperlink

The HTML editor appears.

con	Description
Insert Parameter	The drop-down list options provides specific details to be included on the SMS message.
Restore Defaults	Restores the system default SMS message.

5. Modify the message as required

As part of the customization, the Administrator can use the existing parameters included in the Insert Parameter drop down list. Using these options ensures the customized message use the correct format for the details regarding this information.

6. Click Save.

SMS Parameters

Parameters for new and updated Request templates:

Parameter	Source
Process	Shows if the request is a Service Request, Incident, Problem or Change.
New Status	Shows the Workflow State assigned to the request.
Request Id	Shows the system generated request identification number.
Request URL	A direct link to the request.

Parameters for the Group templates:

Parameter	Source
Group #	Shows the Group ID number.
Group URL	A direct link to the request Group.
Group Type	Identifies the Group as Service Request, Incident, Problem or Change requests.

Parameters for the Invoice template:

Parameter	Source	
Invoice #	Shows the Invoice number.	
Invoice URL	A direct link to the invoice.	

Parameters for the Item Status Change templates:

Parameter	Source
Item Number	Shows the Item Number as recorded in the Item Information tab.
Status	Shows the Status of the Item as recorded in the Item Information tab.

Parameter for the New Attachment template:

Parameter	Source
File Name	Allows the file name of the newly received attachment to be included in the email to the User.

Parameters for the Planned Outage templates:

Parameter	Source
Outage End Date	Drawn from the End Date field in the Configuration>Planned Outages screen.
Outage Items	Shows the Items associated with the Planned Outage in the Configuration>Planned Outages tab.
Outage Start Date	Drawn from the Start Date field in the Configuration>Planned Outages screen.

Parameters for the Escalation templates:

Parameter	Source
Current Technician	Shows the name of the newly assigned Technician.
Previous Technician	Shows the name of the Technician who was previously assigned the request.
Process	Shows the ITIL Process of the request, i.e., Change, Incident, Problem or Service Request.
Request ID	Shows the Request identification number.

6.2.4 SMS

The details of the SMS service providers that are to be applied within Customer and User account information screens, are configured within the SMS tab of the Setup>Email sub-menu option. Within this screen, the default Customer Service Provider is defined and automatically applied to Customer account information when SMS notification is selected as the preferred method of notification by the Customer or User.

The SMS functionality allows a subject line to be specified for providers that require a security token or account number in the subject line, with the message to be sent in the body. On install, the default setting is set to Subject, not requiring an account number or security token as the provider only requires email server information. This can be customized to meet the provider's requirements.

To configure the SMS setting:

1. Select Setup >Email > SMS

Email				
Server	Setup	Templates	SMS	Log
General				
Target	Subject	Body		
System Subject				
Provider				
Default	AT&T	-		
Providers	Name 🔳	Gateway		
	AT&T	txt.att.net		
	Cingular	mycingular.com		
	Sprint PCS	messaging.sprintpcs.co	m	
	Verizon	vtext.com		
	Voicestream/T- Mobile	voicestream.net		
		1 - 5 of 5 Results		
		Ne	w	
		•	Save	

- 2. Set the Target location for sent message:
 - *Subject*: this is selected when the system is to include the message content in the email Subject Field, as the service provider only needs to know the email server details.
 - *Body*: this is selected when the system is to include the message content in the email Body, allowing a System Subject to be configured as required by the service provider, with content such as an account number or security token.

To edit the details of default entries:

- 1. Select the hyperlink of the relevant service provider
- 2. Amend details
- 3. Click Save

To add a service provider:

- 1. Click New
- 2. Enter the Name and Gateway details
- 3. Select Save
- 4. Set the Default Customer Service Provider from the drop-down list options
- 5. Click Save

6.2.5 Email Log

The Email Log facility allows an Administrator to access a complete list of email activity that occurs within the service management application. This enables an Administrator to determine whether an email is successfully sent or if it has failed. If an email fails to send, the system provides an explanation for the failure.

Email						
	Server	Set	tup Tem	plates	SMS	Log
🔎 Se	arch					Filter: All Mail
Date 🛒	7	Sender	Addresses	Status 🔳	Reason	Content
05/03/11 17:00	57	Dennis Barry	no valid recipients	Failed	Invalid Addresses: TO: dennis@	Subject: LiveTime Software: Change Request #100012 - Created Message: Your Change Request has been received and allocated. You will be notified via email of the progress, or you may login at any time to check the status of your request. Change Request Information Change Request #: [http://Julies-MacBook-Pro- 2.local/LiveTime/WebObjects/LiveTime.woa/wa/LookupRequest? requestId=100012] 100012 Date Opened: 05/03/11 16:59(MM/dd/yy HH:mm) Classification: Permission Denied Technician: Dennis Barry Item #: 100003 Itel Type: Email Service Identifier:
05/03/11 16:59	4	Dennis Barry	no valid recipients	Failed	Invalid Addresses: TO: francis@	Subject: LiveTime Software: Change Request #100012 - Created Message: Your Change Request has been received and allocated. You will be notified via email of the progress, or you may login at any time to check the status of your request. Change Request Information Change Request #: [http://Julies-MacBook-Pro- 2.local/LiveTime/WebObjects/LiveTime.woa/wa/LookupRequest? requestId=100012] 100012 Date Opened: 05/03/11 16:59(MM/dd/yy HH:mm) Classification: Permission Denied Technician: Dennis Barry Item #: 100003 Iter Type: Email Service Identifier:
05/03/11 16:59	T	Simone Superviso	r no valid recipients	Failed	Invalid Addresses: TO: dennis@	Subject: LiveTime Software: Change Request #100012 - Created Message: Your Change Request has been received and allocated. You will be

The Email Log screen has the following filter views:

Filter	Description
All Mail	Displays all email activity.
Inbound Mail	Lists the emails that have been sent to the system.
Inbound Mail Errors	List the emails received by the system mailbox in error (i.e., from email addresses with no account.)
Outbound Mail	Lists the emails that are sent from the application by Users.
Outbound Sys Mail	Lists the emails that are automatically sent by the system e.g. Escalations, SLA breaches.

NOTE: Automatic system maintenance deletes 14 day old Email Log entries.

Search Email Activity

Administrators can conduct searches on inbound and outbound emails recorded in the system Email log.

To search for an email as an Administrator:

- 1. Go to the Setup>Email>Log tab
- 2. Select the Search button

3. Define:

4.

Option	
Start Date	Enter the earliest relevant date for the system to include in the search.
End Date	Enter the latest relevant date for the system to include in the search.
Direction	Define if the search is to include either inbound or outgoing email.
Status	Define the email status option to be searched:
	 Sent email
	 Failed to send email
	 Email set a Pending status
	 Email Sent with Errors.

5. Click Search.

6.2.6 User Directory or Domain Migration

If user accounts are migrated to a different directory server, or to another domain in the same server, perform the follow these steps in the ZENworks Service Desk to sync the existing accounts with the new server:

IMPORTANT: •It is recommended that you perform the steps in the test environment and then replicate the same in the production environment.

• Ensure that the email and username for accounts are the same in the new source, else the accounts will not be reconciled in the ZENworks Service Desk.

Scenario 1: When the Primary Email is same in the new source

- 1. In ZENworks Service Desk, modify the existing LDAP configuration, and update the new server details.
- 2. Save the details and sync the changes.

The existing user accounts in ZENworks Service Desk will be synced with the new LDAP source.

Scenario 2: When the Primary Email has to be changed in the target source

- 1. In ZENworks Service Desk, ensure that the target Primary Email address is added as the Email alias for users, the alias can either be updated manually or imported from the old user source alias field.
- 2. In the ZENworks Service Desk, modify the existing LDAP configuration and update the new server details.
- 3. Save the details and sync the changes.

The existing user account in ZENworks Service Desk will be synced with the new LDAP source.

NOTE: After successful migration, email alias in the old user source, which is a Primary Email in the new user source will be updated as the Primary Email in ZENworks Service Desk.

6.3 Custom Fields

- Section 6.3.1, "Enabling a Custom Field," on page 485
- Section 6.3.2, "Data Type List," on page 488
- Section 6.3.3, "Custom Fields for Incidents, Change and Service Requests," on page 490
- Section 6.3.4, "LDAP/ADS Accounts Custom Fields," on page 491

The Custom Fields function allows screens in the system to be adapted to meet specific requirements of an organization, as additional fields can be created for different parts of the application.

Custom fields can be set for different system screens and include the option to select:

- Data type
- Style
- Defining if the field is required or includes a description
- Determining whether it can be viewed or edited by the Customer (Incident, Change and Service Request

Custom fields only.)

NOTE: A maximum of 5 fields is allowed for each option.

6.3.1 Enabling a Custom Field

To enable a Custom Field:

1. Select Setup>Custom Fields

The Custom Fields screen appears.

 From the Category Filter drop-down list select the screen option The displayed list includes all screens where custom fields can be added.

Custom Fields			
		Category:	Articles
Field	Data Type	Style	Change Requests
Custom 1	String	Text	Groups Incidents Invoices
Custom 2	String	Text	Mixed Mode Accounts Org Units
Custom 3	String	Text	Partner Orgs Problems
Custom 4	String	Text	Purchase Orders
Custom 5	String	Text	Releases Service Requests
	1 - 5 of 5 Results		SLAs

Custom Fields	Custom Field Locations	
Articles	Additional field for Articles in the Knowledge Base.	
Change Requests	Additional field for a Change Request.	
Customers	Additional field for Customer Information.	
Groups	Additional field for Service Request, Incident, Problem and Change Groups.	
Incidents	Additional field for Incident Information.	
Invoices	Additional field for Invoices. (Option visible when Billing>Invoices have been enabled for the system.)	
Org Units	Additional field for an Organizational Unit.	
Partner Orgs	Additional field for Partner Organization.	
LDAP/ADS Accounts	Customized LDAP/ADS fields can be used to map to a Directory Server when importing user account details. See Authentication.	
Problems	Additional field for Problem details.	
Releases	Additional field for Release Management details.	
Service Requests	Additional field for Service Request information.	
SLAs	Additional fields for Service Level Agreement Information screen.	
Users	Additional field for the Users Information screen.	
Purchase	Additional field for Purchase Orders. (Option visible when Billing>Purchase Orders have been enabled for the system.)	

NOTE: Problem, Change, Release and Service Requests are in Service Manager only

1. To define a custom field, click on the appropriate field label hyperlink

An editable window appears.

Custom Fields			
Custom Field			
Field Label	Custom 1		0
Category	Article		
Active	Yes No		
		Cancel	Save

2. Toggle the Active field to Yes

Once activated, a list of options is displayed.

Custom Fields	
Custom Field	
Field Label	Custom 1
Category	Article
Active	Yes No
Required	Yes No
Data Type	String
Style	Text List
Unique Value	
Default Value	
Input Validation	Yes No
Enable Description	Yes No
	Cancel Save

Options	Description
Field Label	Edit the Field Label by entering the relevant name. (Required.)
	NOTE: The label entered within this field is applied to the English UI. For it to appear in another language, configure this label in the Setup>Localization>Content tab.
Active	Defines the Custom Field visibility.
Required	Defines if the field is mandatory when displayed.

Options	Description
Data Type	The format required for the field.
	Select the data type from the following:
	 String (Text or List)
	 Number-Custom Field that requires a number
	 Boolean (Radio Buttons)
	 Date-Custom Field that requires a value in a date format
	 Currency- A currency can be defined for the Field
	 Hyperlink - A URL can be included in the field.
Style	From the options provided, the way the data type will be displayed.
	 String custom field - either an open text field or a list, or
	 Boolean custom field - uses radio buttons to define Yes/No or True/False.
Unique Value	When active, the system prevents the duplication of data within the customized field.
Input Validation	When enabled the Input Mask and User Mask can be defined.
	<i>Input Mask</i> : A regular expression to use for data validation of values entered by a User (i.e., Zip/ Post Code, telephone no.)
	<i>User Mask</i> : A User Friendly representation of the Input Mask that Customers can understand should it appear in a validation error message.
Enable Description	When enabled, a Description field appears that allows the User to enter details of what information the field is expected to capture. These details are accessible next to the custom field on the relevant screen.

6.3.2 Data Type - List

When the Data Type String - List is selected the List Contents field is displayed, which provides the facility to create a drop down list to be created as options within the field.

To create a new list entry within the List Contents field:

1. Right click the Entries link

The Create option is displayed

Style	Text List	
List Contents	Entries	
Default Value	Create	
Enable Description	Rename	
Enable Description	Delete	
	Cancel Save	

2. Click Create

A New node link displayed

Style	Text List
List Contents	🛓 🌆 Entries

- 3. Enter the name of the field
- 4. Click outside the field to save the entry

List Contents	🛓 🕼 Entries
	- Giline work

5. Repeat this process until all list entries have been added

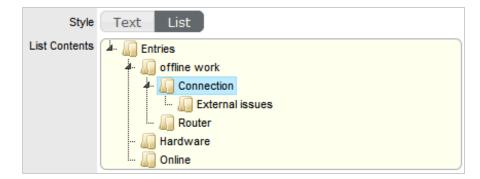
To create a nested list, right click on the relevant list entry and repeat the above process.

🔺 🌆 Entries	
🕂 📗 offline work	
🚛 🌆 Connection	
💷 🜆 New n	ode
··· 📗 Router	
📗 Hardware	
🕼 Online	

6. To move an existing entry to a new position, select the entry, then drag and drop the entry into its new location

Style	Text List
List Contents	🛓 🚛 Entries
	 A offline work Connection A Router ✓ Hardware A Hardware A Hardware Online

7. When all the relevant details have been defined for the custom field, click Save.



6.3.3 Custom Fields for Incidents, Change and Service Requests

If a custom field is enabled for an Incident, Change or Service Request, additional options are displayed. These include:

	Description
Customer Visible	The custom field is visible in the Customer Portal, otherwise it can only be viewed via Technician access.
Customer Editable	Allows the Customer to edit the content within this field.
Default Value	The custom field will automatically be populated with the value entered here when a request is created. This value can be edited within the request screen, if required.

Custom Fields			
Custom Field			
Field Label	Custom 1 (1)		
Category	Change Request		
Active	Yes No		
Required	Yes No		
Customer Visible	Yes No		
Customer Editable	Yes No		
Data Type	String •		
Style	Text List		
Unique Value			
Default Value			
Input Validation	Yes No		
Enable Description	Yes No		
Description	Customer field description is used to type the detailed information that is useful for both customers and users.		
	Cancel Save		

NOTE: If Customer Visibility is set to No for a required field, then a Default Value must be defined. This will enable the Customer to save a new request without seeing the relevant field.

6.3.4 LDAP/ADS Accounts Custom Fields

The LDAP/ADS custom fields are used to define specific Customer and User fields configured within LDAP/ADS. The custom fields for Customers and Users are completed when Users and Customers are entered manually or imported using a .CSV file.

If Mixed Mode LDAP is applied, the same set of custom fields are used. These are listed with the label Mixed Mode within the Custom Field Category filter list.

6.4 Privileges

- Section 6.4.1, "Privileges," on page 492
- Section 6.4.2, "User Privileges," on page 492
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- Section 6.4.5, "System Privileges," on page 503

6.4.1 Privileges

The Privileges tab contains global setup options that govern the application behavior, how Customers and Users can interact with the system and define system defaults.

Ideally, Privileges are set upon initial configuration, however, the system will adapt to changes made later.

There are four tabs within Privileges:

- User
- Customer
- Requests
- System

6.4.2 User Privileges

Within the User tab, privileges for Users with the Technician and Partner Role can be configured by customizing the options within the Technicians options list. This also includes enabling functionality related to all User work hours and public holidays. Defaults can also be adjusted for Users across the Knowledge Management and Configuration Management processes.

Specific to Technician Users, the following privileges include the ability to:

- Create new Customers
- Create new Items
- Reassign requests
- Edit other Technicians' requests
- Create, edit, publish and delete Knowledge Base Articles by default.

NOTE: Privileges assigned to the Technician Role are also applied to the Partner Role.

Enabling User Privileges

To configure User Privileges:

1. Select Setup>Privileges

The User tab is displayed.

User Privileges		
Technicians		
Create Customers	Allows Technicians to create Customer Accounts.	
Reassign Requests	Allows Technicians to reassign requests to another Technician within the same Team. When disabled, requests can only be reassigned through Escalation or changing the status of the request by the Supervisor.	

User Privileges		
Duplicate Requests	Allows Technicians to copy requests to fast track request creation. Supervisors have this privilege by default.	
Manual Request Time	Disables the timer that automatically monitors and records the time when a request is in Edit Mode.	
	NOTE: This option is not available when Contracts are enabled in the Setup>Billing tab, as time worked on a request must be added to Notes manually by Users.	
	 In the redesigned request page, the automatic time will not monitor and record the time when the request is in the Edit mode. 	
View All Requests	Allows Technicians to view all the requests, regardless of Team assignment, logged in the system for the Processes they are assigned.	
	It also allows Technicians to edit requests that are assigned to fellow Team members.	
Update Closed Requests	Set to Yes to enable Technicians to add Notes to requests that are assigned a Workflow Exit State.	
Allow Reopen Requests	Enables technicians to reopen closed requests.	
	NOTE: By default, supervisor will be able to reopen closed requests even without enabling this privilege.	
Reset SLA on Request Re- open	By enabling this privilege, SLA will be reset when technician reopens the request.	
	When SLA is reset, then the Response Time, Restoration Time, Resolution Time, Due Date and Open Date parameters will also be reset.	
Search All Items	Within the Items tab of a request, the All Items option is displayed in the Find Item box for Technician Users, if this option is enabled.	
Include Globals Default	By enabling this option, the "Include Global* Options" is ticked by default in the Find Item field, when a User is creating a request.	
Subject Required	Allows technicians to enable or disable the subject field in the new end-user portal.	
Subject Required	To make the completion of the Subject field mandatory for Users during the request creation process, set the option to Yes.	
Technician Alerts	Allows Technicians to create system Alerts.	
Work Hours		
Define Work Hours	Allows the Technician's availability to be configured within the Users>Schedule tab. This ensures that Requests are only forwarded to the User during the Defined Work hours, unless there are no other Users available.	
	*If this option is enabled, the Users Work Hours must be defined for each User, otherwise the built-in technician assignment logic will be ignored and all new requests will be assigned to the Team Lead.	

User Privileges Scheduled Vacations Allows leave to be scheduled for Users, within the Users>Schedule tab. This allows vacations to be planned and automatically detected by the System when the User commences leave. The System will not assign the User new Requests when they are on vacation. Vacation Reassign This option becomes available when the 'Schedule Vacations' option is active. When enabled, this option ensures active requests of the User commencing leave are automatically re-assigned to available Technicians within the User's Team. Login during Vacation This option becomes available when the Schedule Vacations option is active. When enabled, users can login into Service Desk and work on requests during vacation. The System will not assign the User new Requests when they are on vacation .. Schedule by Technician This option becomes available when the Schedule Vacations option is active. When enabled, users can login into Service Desk and work on requests during vacation. The System will not assign the User, new Requests when they are on vacation. **Observe Public Holidays** This option ensures the System gives consideration to public holidays when calculating SLA times, escalations and breaches. NOTE: When enabled, the Public Holidays sub-menu option is visible within the Admin>Localization>Holidays tab. Assignment Control When enabled provides the Assignment option within the User Information screen. This allows a Supervisor or Administrator to turn request assignment off for a User who is available in the system. **Edit Customer Partner** Allows Customers to be assigned to Partners within the Customer Information tab. **Create Outage** Enables a Technician to create outages for Items. **Force Analysis** The system will propose relevant Solutions within the Analysis tab, during the request creation process. Configuration Set the default privileges for the User Roles' ability to create, edit and delete Roles Item information in the CMDB. If you change the default privileges, for an existing user the privileges will not be updated. Since, these settings are not system level settings. But when you create a user the default privileges are assigned. Individual settings below user information section will determine the actual privileges for that user. If you want to change these settings for many users, use the Bulk edit feature. Knowledge Roles Configure the default Knowledge Base authoring permissions for each User Role.

- 2. Click Yes to enable, or No to disable a Privilege option
- 3. Click Save

6.4.3 Customer Privileges

Customer Privileges specify the options that are available to Customers within the Customer Portal.

Enabling Customer Privileges

To enable Customer Privileges:

1. Select Setup >Privileges >Customer

The Privileges screen is displayed.

Customer Privileges	Description	
Create Account	Allows Customers to create their own account from the Login screen.	
Default Web Access	Define the default setting for Web Access on newly created Customer Accounts.	
Default Tab	Select the default tab for the customer. By default the selected option will be displayed in the Customer portal.	
Generic Requests*	Define if Customers can view, create or edit Generic Requests in the Customer Portal.	
Generic Request Type*	* This option becomes visible when Generic Requests option is active. Define the type for generic request from Incident, Service Request or Change Request. For example, if your generic request type is set to Incidents, when you create a generic request, the request gets listed as incident in the User portal. Then the technician can include item details.	
Incidents	Define if Customers can view, edit, create (create and view), create or edit Incidents in the Customer Portal.	
Change Requests	Define if Customers can view, edit, create (create and view), create or edit Change Requests in the Customer Portal.	
Service Requests	Define if Customers can view, edit, create (create and view), create or edit Service Requests in the Customer Portal.	
Service Incidents	If the option to create Incidents in the Customer Portal is enabled, this can be refined by defining if Incidents can be logged against Service Items. If this option is disabled then Services are not displayed in the Category drop- down list during the Incident creation process.	
	Also, if a Customer attempts to log an Incident against a Service via email by including the Item# in the Subject line, and this option is disabled, the system will send an error message. The "NoServiceIncidentContent" error message can be customized in the Admin>Setup>Email>Templates>Error Message filter.	

Customer Privileges	Description		
Default Request*	Define the default request type from Generic Request, Incident, Service Request, Change Request or Quick Call. The list shows if the options are enabled. For example, if Service Request option is turned off, then Service request option is not shown as an option.		
Items	Define if Customers can view, create or edit their own Item details within the Customer Portal.		
Show Only Active Items	Allows Customers to only view Items that are marked as Active in the system.		
Show Subject Field	Displays the Subject field above the Description field in the Customer Portal.		
Show Status Field*	Allows to hide or display the Item status in the Customer Portal.		
Enable CC for Requests	Enables customers to add emails IDs as CC for requests.		
Enable Search for CC	Enables auto suggestion of email IDs and names of existing users when customer start specifying the mail IDs in the CC field of a request.		
Allow Re-open	Enables customers to reopen closed requests.		
Reset SLA	This privilege will be enabled only when Allow Re-open is enabled. By enabling this privilege, SLA will be reset when customer reopens the request.		
Allow Re-open	Enables customers to reopen closed requests.		
Show Priority/Urgency	Enables customers to view and set the Priority/Urgency for their requests. Select "No" to hide Priority/Urgency in the customer portal.		
Show Time Spent	Enables customers to view the time spent by a technician on a request note.		
Item ID search*	Allows Customers to search by an Item's ID when creating a new request.		
Force Search	When enabled, proposes solutions for Incidents based on the Item Type, Classification and Description provided.		
Create Forum Topics*	Allows Customers to create a new Forum topic through the Customer Portal.		
Display Room	Displays the Room for an Item when creating a request.		
View Technician	Yes allows Customers to view the details of Technician assigned to their request in the Customer Portal.		
Show All Services	Enables the Service Catalog link in the Services tab of the Customer Portal. This allows Customers to view and log requests against all Services offered by the support organization (i.e., request access to a service). Services listed here are not assigned an Exit Item Lifecycle State.		
Show Service Targets	Displays the Response, Restoration and Resolution targets for the SLA assigned to the request in the Customer Portal.		
Enable RSS*	When enabled, provides the RSS Requests Menu option in the Customer Portal.		

Customer Privileges	Description	
Enable Titles	When enabled, displays the Titles Tab within the Setup, which can be customized. This list is then displayed in the Title field in the User and Customer Information screen. See Titles.	
Enable Item Shadow	When enabled, if requests are logged against an Item on the Customer Portal, Technicians can amend the Item assigned to the request without the Customer seeing the change.	
Customer Defined Contact	When enabled, this option allows the Customer to define their preferred method of contact in their Profile or My Account screen. Their preference applies when a Team has the Customer Notification option set to Customer Defined.	
Items in Request	If you select Mandatory, then the Item, Item Type and Item Category fields are mandatory when creating a request.	
	If you select Optional, then the Item, Item Type and Item Category fields are optional when creating a request.	
	If you select Hide, then Item, Item Type and Item Category fields are not displayed while creating a request and request creation will be similar to creating a Generic Request in the Classic Customer portal.	
	NOTE: This privilege was known as Items Required in ZENworks Service Desk 8.0 and 8.1.	
Items Required	If you select Yes, then the Item, Item Type and Item Category fields are mandatory when creating a request.	
	If you select No, then the creation of request will be similar to creation of Generic Request in Classic Customer Portal in ZENworks Service Desk 8.0 and prior versions.	
Show Additional Information	Enables you to display additional details such as location Preferred contact type while creating requests.	
Show Contact Details	When enabled, allows customers to provide contact details such as Location and Preferred Contact Type and view Line Manager while creating requests.	
	NOTE: This privilege was known as Show Additional Information in ZENworks Service Desk 8.0 and 8.1.	
Default Date Style	Sets the default Date format to be used across the application.	
Default Timezone	Sets the default time zone across the application. This can be overridden on a per User basis, by a User who sets their time zone for their log in account	
LDAP/AD	(Visible when an LDAP/AD connection is configured.)	
Include Customers	Set to Yes if the system is to import Customer details when synched with an LDAP/AD server.	
Mixed Mode	Allows Customer accounts to be created directly through the system, as well as being imported via LDAP/AD.	
View Shared Requests	(Request visibility options for the Customer Portal.)	

Customer Privileges	Description
By Ownership	Allows requests to be viewed by all Owners of the Item, when logged against a Shared or Global Item.
	(See the table below for toggle option outcomes.)
By Org Unit	(This option is visible when the By Ownership is enabled.)
	Allows requests to be viewed by all Customers of an Org Unit assigned to the Item, when logged against a Shared or Global Item.

Fields marked with * are not applicable for the new end-user portal.

- 2. Click Yes to enable, or No to disable a Privilege option
- 3. Click Save.

Setting the View Shared Requests options

When setting the visibility of requests logged against shared Items, refer to the table below to ensure the correct visibility option is configured for your organizational requirements:

By Ownership	By Org Unit	Shared Request Visibility
No		Only visible to the Customer who logged the request.
Limited	No	Visible to the Customer who logged the request and other Owners in the same Org Unit, assigned to the Item.
Limited	Limited	Visible to Customer who logged the request and members of Org Unit they belong to, if the Org Unit is also assigned to the Item.
Limited	Yes	Requests visible to Owners within all Org Units assigned to the Item.
Yes	No	Visible to Customer who logged the request and other assigned Owners.
Yes	Limited	Visible to Customer who logged the request, other members of the Org Unit the Customer logging the request belongs to and other Owners assigned to the Item.
Yes	Yes	Visible to everyone who share the Item assigned to the request.

6.4.4 Requests Privileges

Requests Privileges allows the Administrator to control the functionality available for requests and set default requirements. These privileges are applied system-wide.

Enabling Requests Privileges

To enable Requests Privileges:

1. Select Setup > Privileges > Requests

The Requests Screen appears.

Request Options	
Enable Escalation Control	Enables escalation to be enabled or disabled on a per request basis. This option is only available to Supervisor Users.
Queues	Allows Teams to use a holding bay for requests that are received via email or the Customer Portal. The Queues can be enabled within the Team Information screen, on a per Team basis.
Control Deployments via RFC	When enabled, Change Requests are automatically created from newly entered Deployments, and will require approval before work commences on the Deployment.
Control CMS via RFC	When enabled, changes made within the CMDB by a Technician will generate a Change Request requiring approval before the change is implemented.
Customer CMS via RFC	When enabled, Customers creating Items via the Customer Portal generate a Change Request that requires approval before the change is implemented in the CMDB.
Minimum Solution Relevance	Define the minimum degree of relevancy for content included in the Description field of a request, when the system automatically searches the Knowledge Base to propose solutions.
Enable Quick Calls	Enables the functionality that allows the Supervisor to profile Requests using Quick Call Templates. These can be used by other system Users when creating new requests.
Request Priority	Derived: Allows the system to derive the Priority based on Urgency and Impact of the request.
(Derived/Selected)	Selected: Allows you to manually select the Priority from the list.
	You can still select Urgency and Impact, but Priority will not be derived from the selections.
	NOTE: Applicable only on the request detail page.

Request Options	
Default Priority	** This option is displayed when the Incident Priority is set to Selected. The selection made from the drop-down menu, is automatically applied as the default Priority for newly created requests.
Handshaking	Enables notifications to be sent to a Customer using the Propose button within an Incident or Request, stating the Incident/Request will be closed if no reply is received from them within a set number of days.
	NOTE: Note: The Solution button within an open Incident/Request is not accessible when the Handshaking facility is enabled.
	When enabled, if Problems or Changes are closed, any related Incidents or Requests are moved to the Pending - Approval State not to the default Closed State.
Handshaking Close Action	Sets the system default number of days to lapse before an Incident or Request will close if the Customer does not respond to the handshake email notification. This can be adjusted on a per Org Unit basis.
	NOTE: To allow Customers to re-open an Incident or Request using the link in the handshake email, the web server must be using Port 80.
Customer Additional Information Reminder	Sends reminder mails to customers to notify that additional information is requested by the technician.
	When a technician requests for additional information from customer and customer fails to provide the required information with specified duration (Remind After Days), email reminders will be sent to the customer. If customer fails to provide the required information after a specified number of reminders (Remind Count), then a note will be added to the request. Depending on the Handshaking settings, the request will be processed further.
	 The content of the reminder email can be configured in the CustomerAdditionalInformationReminder and CustomerAdditionalInformationReminderSub ject email templates. To configure the templates, go to Setup > Email > Templates tab.
	 The Handshaking setting is not applicable for Problem and Change requests.

Request Options	
Remind After Days	Define the number of days to lapse before sending reminder email to customer to provide additional information that is requested from the technician.
Remind Count	Define the number of reminder mail that should be sent to customers to provide additional information that is requested from the technician.
Approval Reminder	To automatically send Managers reminder emails regarding Requests requiring their approval, set this option to Yes. When Yes is selected, define the number of days to lapse before a reminder will be sent.
	The content of the reminder email is drawn from the ApproveChange or ApproveServiceRequest template. These are configured within Setup>Email>Templates tab.
Default Notes Visibility	Sets the system default visibility of Notes, when added to requests. If it is expected that the majority of Notes are to be emailed to Customers, select Public.
Allow Unknown	When set to No and a User opens a request that is assigned the Unknown Service Item, the User will be prompted to update the Item before saving the request.
Archive Requests	When enabled, the number of days a request is closed before being removed from the List View and archived is to be set.
	Requests that are archived are no longer included for searching. However, they can be still accessible for reporting purposes.
	If you modify the date range or disable the setting, the archived request that are no longer eligible for archiving will get unarchived.
	NOTE: Archiving is reversible. However, if the previous archive task is running, then archive options will be disabled until the current task is completed.
Default SLA	Is used as the Default SLA when a new request is created without an SLA defined for the Item, Customer or Org Unit.
Default Incident* Team (required if using AMIE)	Set the Default Incident Team, which is used for AMIE integration and also set as a default Support Team for Item Types.

Request Options

Default Problem* Team (required if using AMIE)	Set the Default Problem Team, which is used for AMIE integration and also set as a default Support Team for Item Types.
Default Change* Team (required if using AMIE)	Set the Default Change Team, which is used for AMIE integration and also set as a default Support Team for Item Types.
Default Request Team* (required if using AMIE)	Set the Default Request Team, which is used for AMIE integration and also set as a default Support Team for Item Types.
Review Options	
Review SLA	When enabled will display the Review date field in the Service Level Information screen. The default number of days between reviewing SLAs should be set and the number of days before the review date for an Alert Reminder, should also be entered.
Review RFC	When enabled the system will display a Review date in the RFC Information tab. The default number of days between reviewing RFCs should be set and the number of days before the review date for an Alert Reminder, should also be entered.
KBA Options	
Control KBA via Request	When enabled, a Request is generated when the KBA is created, deleted or amended and can only be published to the KB by a User with publishing privileges.
Request Type	Specify the type of request to be generated when new or amended KB content is moved to a "Pending Publication" state.
	(The options are based on the ownership of Change and Service Request licenses.)
Default SLA	Set the default SLA to be used for when requests are logged regarding updates in the knowledge base. Applying an SLA here, determines which workflow and team will receive the requests for approval, as with any other request logged in the system.

* To be set after Teams have been configured.

- 1. Click Yes to enable, or No to disable a Privilege option
- 2. Click Save

Purge Deleted Attachments

Purge Deleted Attachments

This action will purge all the deleted attachments that were deleted from requests and request groups. This is an irreversible action, and you will not be able to retrieve the deleted attachments.

6.4.5 System Privileges

The System Privileges screen allows an Administrator to control the following options:

- Knowledge Base
- Surveys
- Forums
- Outages
- Other general settings

Enable System Privileges

To enable System Privileges:

- 1. Select Setup > Privileges > System
- 2. The following information is displayed:

Customer Privileges	Description
Host Address	To be completed with details of the machine hosting the application, if required.
Edit Item Numbers	Allows users to edit the identification number of an Item.
Public Knowledge Base	Allows access to the Public Knowledge Base on the Login Page.
Public Surveys	Provides access to Public Surveys on the Login Page.
Public Alerts	Alerts with the visibility defined as "Everyone" will be made available on the Login Page.

Public Request

Customer Privileges	Description
Passwords	When LDAP or Active Directory Authorization is not used internal authentication is used. To define the password type to be used by the system select:
	<i>Random</i> : the system will generate a random string whenever a password is reset.
	<i>Email</i> : The Users Email Address will be used as the password.
	<i>Manual</i> : Allows the User to manually create a password.
Password Questions	Enables the ability to set security questions within the My Account screen for Customers and Users, which are referenced when resetting or re- sending login credentials.
Session Timeout	The number of minutes the system waits before terminating idle sessions.
	NOTE: Ensure that the session timeout on the server hosting the application, is equal to or greater than the Timeout option defined in the System Privileges. For changing the timeout option on the server that is hosting the application, edit as follows:
	 For a standalone application: Edit the / <mfsd_server_installation_path> /Server/webapps/LiveTime/WEb- INF/web.xml file.</mfsd_server_installation_path>
	 For an appliance: Edit the srv/ tomcat6/webapps/LiveTime/WEB- INF/web.xml file.
Default Name Pattern	Select the order for names being displayed in the system, when the First and Last Name are shown together on a screen.
Outbound Web Services	When enabled, request Workflow States and Item Lifecycle States can be assigned a 'listener', which allows these details to be updated in external systems. (Refer to the Extend section of the LiveTime website for details on how to develop a listener.)

Customer Privileges	Description
OpenID Provider	Enables the system to function as an OpenID Provider for User authentication across network resources, as the user authentication source.
	The OpenIDProvider URL should be:
	<protocol>://<server>/LiveTime/ WebObjects/LiveTime.woa/</server></protocol>
	wa/providerLookup
	The Protocol should be set to http or https and the server details should include where the system is hosted.
OpenID Consumer	Enables the system to delegate authentication of Users and/or Customers to one or more OpenID Providers. OpenID Providers that are to be used as delegates are configured in the Setup>Authentication>Social tab.
Trust all SSL Connections	Enables the system to automatically trust certificate while integration with a 3rd party server such as Email, LDAP and ZENworks. By default (and recommended), Trust all SSL Certificates will be set to "No" and users have to manually trust the certificates.
Attachment Preview	Enables attachment preview of the supported files in the request detail page.
	NOTE: • The preview might not be displayed immediately.
	 Sometimes Preview might not be generated even for the supported files.
Hide old pages	Hides placeholder pages of the older UI which has been re-designed.

Customer Privileges	Description
Telemetry	Telemetry enables ZENworks to collect statistical data about your usage of Service Desk. This data will enable us to ensure that you have the best possible experience with Service Desk.
	Telemetry is scheduled to run once a month.
	If your Service Desk server does not have outward connectivity and you want to upload the data manually, then perform the following:
	 Copy the telemetry enc file from the following location:
	 Windows: \Program Files\ServiceDesk\LiveTime\ Telemetry
	 Linux: /usr/local/ServiceDesk/ LiveTime/Telemetry
	 Appliance: /LiveTime/Telemetry
	 Using any FTP client connect to productfeedback.microfocus.com with username: anonymous and password: blank (optionally use your email-id).
	3. Upload the file to the stats/ MFSDTelemetry folder.
Mandatory Product Data	Telemetry collects the following mandatory product data:
	License type
	Technician count
	Customer count
	 ZENworks integration
	Database type
	Operating system
Gather Configuration Data	(Optional) This collects the list of categories and count.
Gather Feature Usage Data	(Optional) This collects the following feature usage data:
	Quick call count
	 Request info and count
	Process info and count
Forum Options	
Use Forums	This option enables and disables all Forums within the system.

Customer Privileges	Description
Default Sort Order	Sets the default Forum Topic sort order to either ascending or descending.
Public Forums	This option enables Public Forums to be viewed from the login page and does not require an account to view.
Outages Options	
Planned Outages Page	A link to the Planned Outages page is displayed on the Login Screen. Outages can be set within Configuration Item properties to schedule when the item will be off-line.
	NOTE: To display the Outages tile, Planned Outages Page and Outages Page should be set to Yes in Setup > Privileges > System Outage Options.
	The Outage will be displayed only when the Minimum Criticality for an Item Category is set to equal or higher criticality, and the Item must be deployed.
	For Item, Criticality must be equal to or higher than the Item Category Minimum Criticality setting.
	To view the Outages Offline, go to the "Item Category" and ensure that the Offline State and Customer Visible are set to Yes.
Outages Page	A link to the Outages Page is displayed on the Login Screen.
Minimum Criticality	Defines the Minimum Criticality required for Items to be displayed on the Outages pages.
Show Affected Relationships	Enables Item from the Outages page to show the Item's Relationships.
Show Affected Users	Allows Item owner's details to be displayed on the Outages page.
Show Inactive Items	Displays inactive Items on the Outages page.
	An inactive Item is an Item that is currently not in use by the organization.
Show Change Requests	Allows Customers to view Change Requests related to Outages displayed in the Customer Portal.
Search Outages	Enables Outages to be searched using the Customer email addresses or Item number.
KBA Review Options	

Customer Privileges	Description
Review KBA	When enabled a Review date field is displayed in the KBA Information screen. The default number of days between reviewing KBAs should be set and the number of days before the review date for an Alert Reminder, should also be entered.
KBA Comment Options	
Enable KBA Comments	Enables commenting on the KBAs.
KBA Comment Visibility	Using this field, you can enable the comment visibility to Customers and Technicians. Owner of KBA will always have comment visibility.

- 4. Click Yes to enable, or No to disable a Privilege option
- 5. Click Save.

NOTE: Note: All Outages options apply to Service Manager only.

Re-Index Button

Re-index

The Re-Index button at the base of the System Privileges page is used to re-build the system index. If the search engine appears to be failing text searches, this process will re-create the index. The indexing rebuild runs as a background process.

The following content and attachments is re-indexed:

- Knowledge Base
- Forums
- All requests
- Items

For more information on search, see "Full Text Search Options" on page 255.

6.5 Customize

- Section 6.5.1, "Customize," on page 509
- Section 6.5.2, "Portals," on page 512
- Section 6.5.3, "Cascading Style Sheets (CSS)," on page 515

6.5.1 Customize

The *Customize* menu allows the Administrator to brand the application where system banners can be replaced with the appropriate organizational banners. Graphics included should be PNG images. The Application Banner should be 250 x 60 pixels and all other banners should be 500 x 60 pixels.

Adding a Customized Banner

To add a customized banner:

1. Select Setup>Customize

Banner Type	Displayed
Application	Visible on the Log in page of the system.
User	Visible in the portals for Supervisor, Technician, Administrator, Partner, Finance and Manager Users
Public/Email	Displayed on public portals for Knowledge, Outages, Surveys and Forums. This banner is also included in emails when the Setup>Email>Setup option of Include Banner is set to Yes.
Customer	Visible in the Customer Portal.
	NOTE: Banners for Partner Organizations can be uploaded in the Banners tab of the User>Partner Organization screen. This will override the system Customer Portal banner for Customers associated with the Partner Organization.

2. To use *Custom Banners*, select the *Use Custom* checkbox at the top of the Customize *Banners screen*.

Banners	Portals	CSS	
			Use Custom 👿
Add your own graphics The graphics must be F			n transparency.

3. To upload a new banner, click New

A window with a browse function appears.

Browse No file selected.	Upload
--------------------------	--------

Browse to the location of the image and click _____
 The image will be uploaded.

- 5. Repeat the process until all banners have been replaced
- 6. Click Save.

NOTE: When the Purchase Orders functionality is enabled within the Setup>Billing tab, the option to upload a logo that will be used for system generated POs is displayed. The graphic should be saved as 150x150 PNG file.

Portals Tab

All Public Access home page messages can be fully customized under the Portals tab. Links to documents and downloads may be added. The home page messages can be customized for:

- Alerts
- Forums
- Knowledge Base
- Login Page
- Public Outages
- Planned Outages
- Surveys
- Customer Portal welcome message

NOTE: Outage Home and Planned Home Messages apply in Service Manager only.

To customize a Public Access message:

- 1. Select Setup > Customize
- 2. Click the Portals tab

Banners	Portals CSS
Name 🛓	Title
AlertHome	Public alerts page.
AllServices	Displayed when the Customer selects Service Catalog page under Services Tab .
CustomerForums	Displayed when the Customer Selects Forums Tab.
ForumsHome	Public forums page.
Items	Displayed when the Customer Selects Items Tab.
KnowledgeHome	Public knowledge page.
Login	Displayed on the main login page.
Logout	Displayed when the user logs out.
OutagesHome	Public outages page.
PlannedHome	Public planned outages page.
Requests	Displayed when the Customer Selects Requests Tab.
SelfHelp	Displayed when the Customer Selects Self Help Tab.
Services	Displayed when the Customer Selects Services Tab.
Sspr	Displayed on the main login page.
StoreltemHome	Displayed when the Customer Selects Store Tab.
SurveyHome	Online surveys page.
Welcome	Displayed when the Customer has logged in.

3. Select the Name hyperlink The HTML editor appears.

ustomer For	- Font Fami	y - Font	Size 🔹	esa 25 нтm	L.	
<u>А</u> -В <i>I</i>	<u>U</u> ARC	≡ j≡ "		X 2 X 2		

- 4. Edit the message as required
- 5. Click Save.

Cascading Style Sheets

The system can be further customized using cascading style sheets (CSSs) to amend:

- Color
- Fonts
- Tabs
- Graphics

See: Cascading Style Sheets (CSS).

6.5.2 Portals

All Public Access home page messages and some Customer Portal pages can be customized within the Portals tab.

Knowledge of HTML is required to edit this section. Links to documents and downloads may be added. The content can be customized for the following system Portals:

 Name
 Description

 AlertHome
 Accessed by clicking the Alerts link on the system Login screen.

Name	Description
AllServices	Visible as the header within the Service Catalog screen of the Services tab in the Customer Portal.
CustomerForums	Visible as the header within the Forums page of the Customer Portal.
ForumsHome	Visible as the header within the Forums pages of Public Forums.
Items	Visible in the Items tab within the Customer Portal.
KnowledgeHome	Accessed by clicking the Knowledge Base link on the system Login screen.
Login	Visible on the screen where system users enter their login credentials.
Logout	Visible on the page displayed when system users log out.
OutagesHome	Accessed by clicking the Outage link on the system Login screen of Service Manager installations.
PlannedHome	Accessed by clicking the Planned Outage link on the system Login screen of Service Manager installations.
Requests	Visible in the Requests tab within the Customer Portal.
SelfHelp	Visible in the Self Help tab within the Customer Portal.
Services	Visible as the header within the Services tab of the Customer Portal.
SurveyHome	Displayed in the public online surveys page.
Welcome	Displayed on the landing page when the Customer logs into the Customer Portal.

To customize a Portal message:

1. Select Setup > Customize

Banners	Portals CSS
Name 🛓	Title
AlertHome	Public alerts page.
AllServices	Displayed when the Customer selects Service Catalog page under Services Tab .
CustomerForums	Displayed when the Customer Selects Forums Tab.
ForumsHome	Public forums page.
Items	Displayed when the Customer Selects Items Tab.
KnowledgeHome	Public knowledge page.
Login	Displayed on the main login page.
Logout	Displayed when the user logs out.
OutagesHome	Public outages page.
PlannedHome	Public planned outages page.
Requests	Displayed when the Customer Selects Requests Tab.
SelfHelp	Displayed when the Customer Selects Self Help Tab.
Services	Displayed when the Customer Selects Services Tab.
Sspr	Displayed on the main login page.
StoreltemHome	Displayed when the Customer Selects Store Tab.
SurveyHome	Online surveys page.
Welcome	Displayed when the Customer has logged in.

2. Select the Name hyperlink The HTML editor appears.

Format	- Font F	amily	Font S	ze	-	<u>аў</u> нт	πL		
A - B /	<u>U</u> ABC	IE E	66	E ≡	三	X ₂ X ²			

- 3. Edit the message as required
- 4. Click Save

Cascading Style Sheets

The system can be further customized using cascading style sheets (CSSs) to amend:

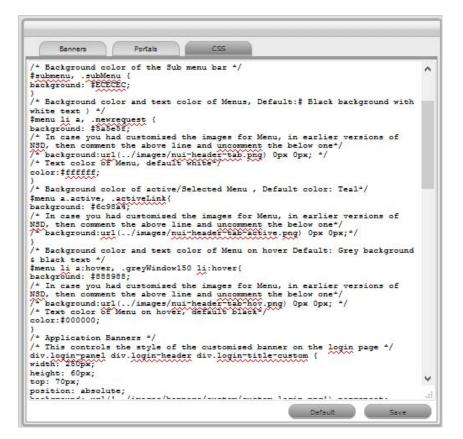
- Color
- Fonts
- Tabs
- Graphics

6.5.3 Cascading Style Sheets (CSS)

- "Background Colors" on page 516
- "Application Banners" on page 517

The CSS tab allows Users to customize the look and feel of banner backgrounds and tabs within the system. Knowledge of working with cascading style sheets is recommended when making changes to these settings.

The options available for configuration include:



Background Colors

CSS Editor	
Background Colors	
#header	This controls the background color of the header.
#menubar, .greyWindow150	This controls the background color of the menu bar.
#submenu, .subMenu	This controls the background color of the submenu bar.
#menu li a, .newrequest	This controls the color of the menu background and the text.
#menu a.active, .activeLink	This controls the background color of the active selective menu.
#menu li a:hover, .greyWindow150 li:hover	This controls the background color of menu on hover.

Example 1

This example shows how to change the default header color to green. In the #header section for background, you can either directly specify green or use the Hex color code for green. After saving the changes, you can see a change in the background color of all portals as shown below:

Banners	Portals	CSS				
norrale (llear	S to customize	1 */			the	^
<pre>/* Background c #header{</pre>	olor of the Hea	der : defa	ult color is	black*/		- 11
background: gre	en:					

Example 2

The following screen displays the customized colors of the header, menu bar, submenu bar; the active menu and the configurations made to get this result:

<pre>/* Edit this CSS to customize the color combinations across all the cortals (User, Customer, Admin) */ * Background color of the Header : default color is black*/ theader(background: #006633; /* Background color of the Menu bar */ tmenubar, .greyWindow150 { background: Lighthlue; } /* Background color of the Sub menu bar */ fsubmenu, .subMenu { background: #CC66FF; /* The color and text color of Menus, Default:# Black background with white text) */ tmenu li a, .newrequest { background: #CC66FF; /* In case you had customized the images for Menu, in earlier versions of NSD, then comment the above line and uncomment the below one*/ /* Background color of active/Selected Menu , Default color: Teal*/ tmenu a.active, .activeLink(background: #FF0000) /* In case you had customized the images for Menu, in earlier version of NSD, then comment the above line and uncomment the below one*/ /* Text color of Menu, default white*/ color:#ffffff; /* /* Background: color of active/Selected Menu , Default color: Teal*/ tmenu a.active, .activeLink(background: #FF00000; /* In case you had customized the images for Menu, in earlier version of NSD, then comment the above line and uncomment the below one*/ /* Background: url(/images/nui-header-tab_Phone) Opx Opx;*/ /* Background: url(/images/nui-header-tab_Phone) Opx Opx;*/ /* Background color and text color of Menu on hover Default: Grey background & black text */ tmenu li a:hover, .greyWindow150 li:hover(background: #88988; /* In case you had customized the images for Menu, in earlier versions</pre>	Banners	Portals	CSS		
<pre>with white text) */ fmenu li a, .newrequest { fmenu li a, .newrequest { fmenu li a, .newrequest { background: #535557; /* In case you had customized the images for Menu, in earlier versions /s Background:url(/images/nui-header-tab.png) Opx Opx; */ /* Background color of active/Selected Menu , Default color: Teal*/ /* Text color of menu, default white*/ color:#ffffff; /* Background: effr0000; /* In case you had customized the images for Menu, in earlier version /s background: effr0000; /* In case you had customized the images for Menu, in earlier version of NSD, then comment the above line and uncomment the below one*/ /* Background:url(/images/nui-header-tab-active.png) Opx Opx;*/ /* Background color and text color of Menu on hover Default: Grey background & black text */ fmenu li a:hover, .greyWindow150 li:hover(</pre>	<pre>vortals (Use) /* Background #header{ background: # /* Background menubar, .gu background:] /* Background:] /* Background: submenu, .su </pre>	Customer, Adr i color of the 1 0006633; i color of the 1 reyWindow150 { Lightblue; i color of the 1 ubMenu {	min) */ Header : default Menu bar */		ll the
<pre>menu a.active, .activeLink(ackground: #FF0000; * In case you had customized the images for Menu, in earlier version if NSD, then comment the above line and uncomment the below one*/ * Background:url(/images/nui-header-tab-active.png) 0px 0px;*/ * Background color and text color of Menu on hover Default: Grey background & black text */ menu li a:hover, .greyWindow150 li:hover{ background: #888988; * In case you had customized the images for Menu, in earlier versions</pre>	with white te menu li a, ackground: 4 /* In case yo f NSD, then /* Background /* Text color	ext) */ newrequest { /ba5e5f; bu had customize comment the abd frurl(/images, c of Menu, defau	ed the images fo ove line and unc /nui-header-tab.	or Menu, in earlier comment the below o	versions
<pre>packground & black text */ mmenu li a:hover, .greyWindow150 li:hover{ packground: #888988; * In case you had customized the images for Menu, in earlier versions</pre>	* Backgroup			, Default color:	Teal*/
of NSD, then comment the above line and uncomment the below one*/ * Background:url(/images/nui-header-tab-NoV.Dng) Opx Opx; */	menu a.activ background: /* In case yo of NSD, then	ou had customize comment the abo	ove line and und	comment the below o	ne*/

NOTE: After saving the changes, ensure that you clear the browser cache to view your custom changes.

Application Banners

CSS Editor

Application Banners

CSS Editor

div.login-panel div.login-header div.login-title-custom	This controls the style of the customized banner on the Login page.
div.login-panel div.login-header div.login-title-container	This controls the style of the default banner on the Login page.
div.login-panel div.login-header span.login-app-logo	This controls the helpdesk icon graphic on the Login page.
#header .customPngBanner	This controls the style of the customized banner within the User portal.
#header .defaultBanner	This controls the style of the default banner graphic within the User portal.
#header .customPngBanner	This controls the style of the customized banner within the Customer & Public portals.
#pageHeader .defaultBanner	This controls the style of the default banner within the Customer & Public portals.
Menu Options (User Portal)	
#menu a.active	This controls the highlight on the active (main) menu selection.
submenu a:hover	This (in tandem with the span extension) controls the mouseover (hover) on the submenu tabs.
#submenu a:hover span	This (in tandem with the hover default above) controls the mouseover (hover) on the submenu tabs.
#submenu a.active	This controls the highlight applied to the selected submenu options.

If unwanted changes are made to the system Style Sheets, use the Default button to return the system to the out-of-the-box format.

6.6 Localization

- Section 6.6.1, "Regions," on page 519
- Section 6.6.2, "Hours," on page 521
- Section 6.6.3, "Content," on page 522
- Section 6.6.4, "Item Type Request Fields," on page 527
- Section 6.6.5, "Priority," on page 532
- Section 6.6.6, "Email Signatures," on page 533
- Section 6.6.7, "Titles," on page 535

6.6.1 Regions

This option allows the Administrator to customize the geographic regions or States that are available for each Country. This information is applied to Customers and Org Units when their contact details are being defined. When the Customer or Org Unit "Country" field is completed within the information screen, the States that are displayed are drawn from the Geographic Regions defined here.

To define a State for a Country:

- 1. Go to Setup > Localization > Regions tab
- 2. Search and select a Country hyperlink from the list provided

R	egions	Hours Content	Holidays	Titles
Details				
Name	Australia			
Continent	Asia Pacific			
Default Fime Zone	(GMT +10:00) Melb	ourne, Sydney, Canberra, 💌		
States	0			
	Name	🛓 Time Zone		
	Australian Capital Territory	(GMT +10:00) Melbourne, S Canberra, Port Moresby	/dney,	
	New South Wales	(GMT +10:00) Melbourne, S Canberra, Port Moresby	/dney,	
	Northern Territory	(GMT +9:30) Adelaide, Darv	/in	
	Queensland	(GMT +10:00) Brisbane		
	South Australia	(GMT +9:30) Adelaide, Darv	/in	
	Tasmania	(GMT +10:00) Melbourne, S Canberra, Port Moresby	/dney,	
	Victoria	(GMT +10:00) Melbourne, S Canberra, Port Moresby	/dney,	
	Western Australia	(GMT +8:00) Beijing, Perth, Singapore, Taipei		
		1 - 8 of 8 Results		

3. Click 💽 to add another State or region

Localization	
Region	s Hours Content Holidays Titles
Details	
Name	
Initials	
Time Zone	(GMT +10:00) Melbourne, Sydney, Canberra,
	Cancel Save

- 4. Enter the Name, representative Initials and select the relevant Time Zone
- 5. Click Save
- 6. Repeat Steps 3 to 5 to add more regions
- 7. Select Save.

Editing States

A default or customized template can be easily edited:

- 1. Go to Setup > Localization > Regions tab
- 2. Search and select a Country hyperlink from the list provided
- 3. Select the relevant State Name hyperlink.

Localization	
Region	s Hours Content Holidays Titles
Details	
Name	Queensland
Initials	QLD
Time Zone	(GMT +10:00) Brisbane
	Cancel Delete Save

- 4. Edit the Name, Initials or Time Zone details
- 5. Select Save.

Deleting a State

A default or customized template can be easily deleted:

- 1. Go to Setup > Localization > Regions tab
- 2. Search and select a Country hyperlink from the list provided
- 3. Select the relevant State Name hyperlink

- 4. Select the Delete button
- 5. Select Save.

Region Search

To find a Country or State within a Country, the Search facility can be used. To conduct a search:

- 1. Go to Setup > Localization > Regions tab
- 2. Select Search

Localization					
Region	5	Hours	Content	Holidays	Titles
Search					
Country Name					
Continent	Africa	•			
State					
	(Cancel	Clear	Search	

3. Enter the known details

Search options include Country Name, Continent or can also be refined by the State within a Country.

4. Click Search.

6.6.2 Hours

For the ease of configuring the Technician Scheduled hours of work and customizing hours of operation for Service Level Agreements, work hour templates can be created within the Setup>Localization>Hours screen. These templates are then made available throughout the application, wherever hours of operation are defined.

Localization							
Regions	Hours	Content	Holidays	Title	:5		
New							
Template Name	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Weekdays 8 to 5	N/A	08:00 - 17:00	08:00 - 17:00	08:00 - 17:00	08:00 - 17:00	08:00 - 17:00	N/A
Weekdays 9 to 5	N/A	09:00 - 17:00	09:00 - 17:00	09:00 - 17:00	09:00 - 17:00	09:00 - 17:00	N/A
			1 - 2 of 2 Results	5			

To create a template:

- 1. Go to Setup>Localization>Work Hours tab
- 2. Click New
- 3. Enter the Template Name

(Required.)

4. Set the hours of operation

Localization	
Regions	Hours Content Holidays Titles
Details	
Template Name	Weekdays 7 to 5
Schedule	
Sunday	▼ -
Monday	07:00 💌 - 17:00 💌
Tuesday	07:00 🔻 - 17:00 💌
Wednesday	07:00 🔻 - 17:00 💌
Thursday	07:00 💌 - 17:00 💌
Friday	07:00 🔻 - 17:00 💌
Saturday	 ▼
	Cancel Save

5. Select Save.

Editing a Template

A default or customized template can be easily edited:

- 1. Go to Setup>Localization>Work Hours tab
- 2. Click the relevant Template Name hyperlink
- 3. Amend the hours, as required
- 4. Select Save.

Deleting a Template

A default or customized template is deleted from the List View:

- 1. Go to Setup>Localization>Work Hours tab
- 2. Click the Template Name hyperlink
- 3. Select Delete

A warning message will be displayed.

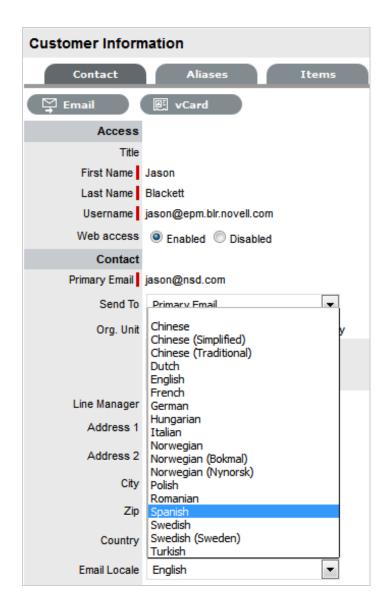
4. Click OK.

6.6.3 Content

The Content tab allows Users to configure automated messages, user interface and system objects content for language files used by the application.

Localization						
Regions	Hours	Content Holidays	5 Titles			
Locale	Language	■ Country	E Character Set			
Chinese	Chinese		UTF-8			
Chinese (China)	Chinese	China	UTF-8			
Chinese (Taiwan)	Chinese	Taiwan	UTF-8			
Dutch	Dutch		UTF-8			
English	English		UTF-8			
French	French		UTF-8			
German	German		UTF-8			
Hungarian	Hungarian		UTF-8			
Italian	Italian		UTF-8			
Norwegian	Norwegian		UTF-8			
		1 - 10 of 18 Results 🚽 🌱				

The customized content is applied to Customers and Users by setting the Email Locale option in their account information screen.



Content can be customized across the following elements and messages:

- Email Keywords
- Emal Message Templates
- Email Summary Tables
- Error Message Templates
- General Custom Fields
- Item Type Request Fields
- SMS Message Templates
- System Objects
- User Interface messages
- Email Signatures

NOTE: It is recommended that the localization of user interface content, email and sms messages be done after they have been configured and reviewed within the Setup>Email and Setup>Customize tabs, respectively.

To customize content:

- 1. Select Setup>Localization
- 2. Move to the Content tab
- 3. Select the Locale link for the language file that is to be edited
- 4. Within the Category field, select the element to be customized

calization				
Regions	Hours	Content	Holidays	Titles
Edit				
Category	Email Summary Table	5		
Template	Email Keywords Email Message Templa	tes		
	Ernai Message Templa Ernai Message Templa General Custom Fields Item Type Request Fi SMS Message Templat System Objects UI Messages Email Signatures Informazioni-/strong>< class="datalabel"> <stri <{created}></stri 	tes y td artic elds ding tes tr by ellp ites tr by ellp ites tr by ellp ites tr by ellp ites tr by ites tr by ites tr by ites trop (displayString kbald})	} tth="150" JType}} > <td ig> /strong> jn="top" trong></td 	

5. Within the default field displayed when the relevant Category is selected, choose the element to be customized

ocalization		
Regions	Hours Content	Holidays Titles
Edit		
Category	Email Summary Tables	
Template	Request Summary	_
Current	Article Summary Group Summary	alabel
	Invoice Summary Item Summary	er="0"
	Maintenance Contract Summary Maintenance Contract Summary By Month Outage Summary	aaa">≺tr r="0"
	Request Summary Survey Summary	
	<strong {{displayStringType}} N.:{{in</strong 	
	E	Data di

6. Click Edit

Localization		
Regions	Hours Cont	ent Holidays
Edit		
Category	Email Summary Tables	•
Template	Request Summary	
Current	<style type="text/css">#incidentS {background: #efefef;}</style> <di id="incidentSummary"><table td="" wi<=""><th>iv</th></table></di 	iv

7. Amend the content and format, if required

ocalization		
Regions	Hours Content Holidays Titles	
Categ	Frail Summary Tables	
Temp	Request Summary -	
Request Summary	Insert Parameter	•
Format 🔹 Font Family	🔹 Font Size 🔹 📾 🧩 нтть	
<u>A</u> • B <i>I</i> <u>U</u> ≜≋∈ ⋮Ξ]Ξ 46 │ ≣ ≣ ≡ ×, ×,	
{{Processo}} Informaz	ioni	<u>^</u>
{{Processo}} N.:	{{ID richiesta}}	=
Data <u>di apertura</u> :	{{Data di apertura}}	
Classificazione:	{{Classificazione}}	
Tecnico:	{{Nome tecnico}}	
N. elemento:	{{N. elemento}}	
Tipo di elemento:	{{Tipo di elemento}}	-
Path: div » table » tbody » tr »	td V	Vords:43
Customizable Email Message	containing Incident Summary data.	
Date Style mm/dd/yy	•	
Restore Default		

8. Click Save.

Repeat the above process for all the relevant elements in the default list or select the Content tab to return to the Locale list.

6.6.4 Item Type Request Fields

Within the system, service organizations can refine custom fields made available during the request creation process based on the Item assigned to the request. In the Fields tab a User can create custom fields that apply to the Item Type. Therefore, when a request is logged against an Item that uses an Item Type with custom fields configured within the Fields tab, the Fields are made available within the Details tab of the request creation process.

These fields are in addition to the fields created by the Administrator within the Admin>Setup>Custom Fields, which are created for the specific Process, such as Incident, Problem, Change and Service Requests.

Type Information		_				_		
Information Classifi	cations Items	5	Requests	Fi	elds	Resp	onses	
Field	Data Type	Style	Active	Required	Customer Visible	Customer Editable	Default Value	
Access Enabled?	Boolean	Yes/No	0			\checkmark	No	
Type Custom 2	String	Text			Ø	a		
Type Custom 3	String	Text						
Type Custom 4	String	Text			a	a		
Type Custom 5	String	Text			v	v		
		1 - 5 of 5 F	Results					
							-	_

To create Field labels within the Type Information screen:

- 1. Click the Fields tab
- 2. Click Edit
- 3. Select a Field hyperlink

The Custom Field screen is displayed.

Type Information					
Information Classifications	Items Rec	quests I	Fields	Responses	
					Email Services
Custom Field					
Field Label	Type Custom 2		D		
Category	ltem Type				
Active	Yes No				
				Cancel	Save

- 4. Click Yes to activate the Field
- 5. Complete the following details:
- 6.

Categories Fields	Description
Category	

Categories Fields	Description
Field Label	The name of the field.
Active	Indicates if the field is active.
Required	Indicates if the field is required or mandatory field.
Customer Visible	Defines if the Customer can see the field within the
	Customer Portal.
	If Yes is selected, define if the Customer can edit the field information on the Customer Portal.
Data Type	Dictates the field's Data Type. The options available include :
	 String - List or Free Text
	Number
	 Boolean - radio buttons for Yes/No and True/ False
	 Date - creates a date field
	 Currency- creates a currency field
	 Hyperlink.
Style	Defines how the data is recorded or presented in the field. (e.g., String - List or Free Text field.)
	See Lists or below for more information about creating a list within the field.
Unique Value	When active, the system prevents the duplication of data within the customized field.
Default Value	Value entered is the default system entry for the field, when the field is not completed manually.
Input Validation	When enabled the Input Mask and User Mask can be defined.
	<i>Input Mask</i> : A regular expression to use for data validation of values entered by a User (i.e., Zip/ Post Code, telephone no.)
	<i>User Mask</i> : A User Friendly representation of the Input Mask that Customers can understand should it appear in a validation error message.
Enable Description	When enabled a Description field appears, allowing the User to enter details of what information is the field is expected to capture. These details are accessible next to the custom field on the relevant screen.

7. Click Save

The active Field will now be available during the request creation process, for all Items that use the Item Type.

quest Informa	tion		
Customer	Detalls		
Reques	1		Field configured in Item Type>Fields
Request Type	New Incident	\$	Access enabled? O Yes O No
Classification	Service Offline	\$	
Description	Transfer and the second	family ▼ Font ⊭ : Ξ	size • SS (S) HTTL 400 • E Ξ Ξ X ₂ X ²
	Path:		Words: 0

Data Type - List

When the Data Type String - List is selected the List Contents field is displayed, which provides the facility to create a drop down list to be created as options within the field.

To create a new list entry within the List Contents field:

1. Right click the Entries link

The Create option is displayed

Style	Т	ext List			
List Contents		Entries)
Default Value		Create			
Enable Description		Rename			
Enable Description	1	Delete			
			Cancel	Save	

2. Click Create

A New node link displayed

Style	Text List
List Contents	🛓 🌆 Entries

- 3. Enter the name of the field
- 4. Click outside the field to save the entry

List Contents	Leftries	
	I. In offline work	

5. Repeat this process until all list entries have been added

To create a nested list, right click on the relevant list entry and repeat the above process.

👍 🛄 Entries	
🖇 🌆 offline work	
A Gonnection	
🛄 New node	
📗 Router	
📗 Hardware	
🜆 Online	

6. To move an existing entry to a new position, select the entry, then drag and drop the entry into its new location

Style	Text List
List Contents	🔺 🌆 Entries
	 A offline work Connection A Router ✓ Hardware A Hardware Online

7. When all the relevant details have been defined for the custom field, click Save.

Style	Text List
List Contents	🛓 🔚 Entries
	🕌 🌆 offline work
	A 💭 Connection
	🛺 External issues
	- 🛺 Router
	🚛 Hardware
	🛄 Online

Creating Nested List Entries

List entries can be expanded to include nested options.

To create a nested list:

1. Right-click the relevant list entry header

The Create, Rename, Delete and Make Default options are displayed.

Item Categories	
Category	Lifecycle Classifications Responses Types
Classifications	Hardware
	Classifications Configuration Faults Create Rename Delete Make Default
Custom	
	Done

2. Select Create

A text box will appear under the list entry.



- 3. Enter the name for the list entry
- 4. Click away from the text box to commit and save the change
- Move an existing list entry to a new position, if required Select the entry, then drag and drop the entry into its new location
- 6. The above steps can be repeated until the nested list is complete.

Lassifications
🚛 🚛 Configuration
🛓 🚛 Faults
🕼 Internal
🕼 External
- 📗 Downloads
📗 General (Default)
- 🕼 Manuals
🕼 Network

Renaming a List Entry

Any list entry can be renamed.

To rename a list entry:

1. Right-click the list entry link

🔺 🌆 Classifications	\$	
🖛 📗 Configurat	ion	
🔺 🌆 Faults		
🛵 Inte	ernal	
📗 Ext	ternal	
	eate	
- Ge Re	name	
	lete	
Ma	ke Default	

- 2. Click Rename
- 3. Edit the field content
- 4. Click away from the text field to save the change.

Deleting a List Entry

To delete a list entry:

- 1. Right-click the relevant list entry
- 2. Click Delete
- 3. Click Done when the list is complete.

6.6.5 Priority

The Priority determines the timeframe in which an Incident should be handled and sets the service level targets adopted by the Incident that drive the SLA triggers and actions. It represents the degree of importance of the Incident to the Customer and also indicates the urgency of the request to the Technician.

An Incident can have one of four possible Priorities:

- Urgent
- High
- Medium
- Low

Setting Incident Priority

The Administrator configures the options for determining the Priority within the Setup>Privileges>Request tab. The Priority options include:

- Selected Priority where the system configured default Priority is applied to the request but can be manually adjusted by the User
- Derived Priority where the Impact is derived from the Item Criticality and the User enters the Urgency, enabling the system to calculate the Priority.

Urgency: The value selected reflects how quickly a resolution is required

Impact: The value selected indicates the impact the Incident has on the User and Organization. The higher the Impact the higher the Priority to resolve the Incident.

If the Administrator has set the Request Priority option to Derived, the Priority of an Incident results from the Impact being mapped from the Criticality of the Item and then combined with the selected Urgency. However, if required, the Impact can be manually adjusted within the Incident Information screen to affect the Priority.

The following table displays the calculations applied by the system using the Item Criticality mapped directly to the Incident Impact, to determine an Incident's Priority:

Impact / Urgency	Urgent	High	Moderate	Low	Very Low
Critical	1.000	0.850	0.700	0.550	0.410
High	0.850	0.723	0.595	0.468	0.349
Moderate	0.700	0.595	0.490	0.385	0.287
Low	0.550	0.468	0.385	0.303	0.226
Very Low	0.410	0.349	0.287	0.226	0.168

The above calculations result in the following Priorities:

Priority	Upper	Lower
Urgent	1	0.83
High	0.83	0.58
Medium	0.58	0.34
Low	0.34	0

6.6.6 Email Signatures

Email Signatures that are applied at the base of all emails sent by the system are customized within the Full Email Templates filter of the Setup>Email>Templates tab. These can also be customized on a per Team basis using the Localization functionality.

To set the system default Signature:

- 1. Select Setup>Email
- 2. Go to the Templates Tab

The Full Email Templates filter view is displayed

- 3. Click to the final page of the Email Templates
- 4. Select the Signatures link

Email						
Server	Setup Templates SMS Log					
	Full Email Templates					
Name	<u>≜</u> Content					
Signature	 Micro Focus Service Desk					
SlaBreached	{{Phase}} Time Exceeded {{Time Limit}} {{Hr/Min}}.					
SlaBreachedSubject	Contract Breached {{Name}}					
SlaTimeElapsed	{{Time Elapsed}}% of the time to complete the {{Phase}} for this {{Process}} has elapsed.					
SlaTimeElapsedSubject	Contract ('{{Name}}') - {{Phase}} time warning {{Time Elapsed}}% elapsed					
SurveyCompleted	Thank-you for completing our survey on {{Name}}					
SurveyPrefix	You have been selected to take part in a user feedback survey for our Service Desk.					
	Please access the Service Desk to complete the survey described below.					
SurveyReminderPrefix	In an effort to continually improve the Service Desk customer experience, we would value your feedback regarding a recent Service Desk interaction.					
	Please take a moment to complete the user feedback survey described below, that was emailed to you recently. Your time and effort will be most appreciated.					
	To provide feedback, access the survey through the following link.					
	🜪 🛖 51 - 58 of 58 Results					

- 5. Edit the content
- 6. Click Save.

Team Signatures

After Teams have been created by the Supervisor in the User>Teams tab, an Administrator can customize the content of the Signature for the Team within the Setup>Localization>Content tab. This function allows individual signatures to be customized for each Team and in the relevant language for Customers.

To amend the Signature details on a per Team basis:

- 1. Select Setup>Localization
- 2. Click the Content tab
- 3. Select the Link of the language file to be customized

To create a signature file for each Team in English, select the English Locale link.

4. In the Category list select Email Signatures

A Signature list is displayed that includes the default Signature and the list of Team names configured in the system.

5. Select the Team Signature within the drop down list

Localization			
Regions	Hours	Content	Holidays
Edit			
Category	Email Signatures	•	
Signature	Email Keywords Email Message Templa Email Summary Tables	tes	
Current	Error Message Templat General Custom Fields	tes	e Desk
	Item Type Request Field SMS Message Templat	andro	/a>
	System Objects UI Messages		
	Email Signatures		

- 6. Click Edit
- 7. Amend the signature details
- 8. Click Save.

6.6.7 Titles

When the Use Titles option is enabled in the Setup>Privileges>Customer tab, the Titles option is visible within the Setup>Localization screen. Titles configured here become an option within the Customer and User Information screens. When this option is enabled, a list of title options are displayed in the Titles table.

Localization					
Regions	Hours	Content	Holidays	Titles	
New					
Title				Sort	à
Dott.				1	-
Dott.ssa				2	
Dr.				3	
Dra.				4	
Frau				5	
Frau Dr.				6	
Herr				7	E
Herr Dr.				8	
Herr Prof.				9	
Ing.				10	
М.				11	_
Miss				12	
MIIe.				13	
Mme.				14	
Mr.				15	
Mrs.				16	
Ms.				17	
Prof.				18	-
	(1 - 25 of 44 Res	ults 🚽 🔿		

Edit a Title

Titles listed can be re-named or have their sort order changed as required.

To edit a pre-existing entry in the Titles list:

- 1. Within Setup>Localization>Titles
- 2. Select the relevant Title hyperlink
- 3. Amend the Title detail, if required

Localization								
Regions		Hours	Co	ntent	Н	olidays	Titles	
Details								
Title	Mr.							
Sort Order	15							
				Cancel		Delete	Save	

4. Update the Sort Order detail, if required

This will change where the Title appears in the drop-down list options when the Title field is included in the Customer Information screen.

5. Click Save.

Alternatively, to remove an entry from the Titles list, select the Title hyperlink and click Delete.

Create a Title

To create an additional Title list option:

- 1. Within Setup>Localization>Titles
- 2. Select the New button

Localization				
Regions	Hours	Content	Holidays	Titles
Details				
Title				
Sort Order				
			Cancel	Save

- 3. Complete the Title details
- 4. Enter Sort Order number

This will define where the Title appears in the drop-down list options when the Title field is included in the Customer Information screen.

5. Click Save.

6.7 Licenses

The Licenses menu displays information about the currently installed license. Details of the current license, hosting server and licensed users can be viewed from this screen. A new license can also be installed.

IMPORTANT: Service Desk has two editions that are differentiated by different License Keys:

- ZENworks Service Desk for Incident Management: This includes Incident, Configuration, Knowledge, and Service Level Management (Basic) feature with an emphasis on internal or external customer support. This comes with single Incident Workflow, and can be configured only with single LDAP/AD source.
- ZENworks Service Desk for ITIL Management: This is a comprehensive service management solution that is fully compliant with Information Technology Infrastructure Library(ITIL)standards.ZENworks Service Desk for ITIL Management supports eleven core ITIL processes including Request, Incident, Problem, Change; Configuration, Knowledge, Release

and Deployment; Finance, Service Level Management, Service Catalog, and Service Portfolio. This enterprise-wide solution delivers complete customer service and offers support for any size organization.

6.7.1 Viewing a License

To view a license:

1. Select Setup > License.The Licensing page appears.

Licensing				
License	Host		Install	Users
Product Service Manager Version #7.2				
Licensee Novell				
User Limit 20 (Licensed: 0) (Tempora	ary: 20) (Used	d: 6)		
Incident Roles 20 (Licensed: 0) (Tempor	ary: 20) (Used	d: 6)		
Request Roles 20 (Licensed: 0) (Tempor	ary: 20) (Used	d: 6)		
Problem Roles 20 (Licensed: 0) (Tempora	ary: 20) (Used	d: 6)		
Change Roles 20 (Licensed: 0) (Tempora				
Install Date 12/07/15 10:30	2 7 1			
Temporary				
Start Date December 8, 2015				
End Date February 6, 2016				
Status Valid License				

You can see the details about License information below:

License Information	Details			
Product	Identifies which service management product is currently installed.			
Licensee	The organization that holds the license.			
User Limit	The maximum number of non-Customer users that are allowed to use the system. Value inside brackets indicates how many licenses have already been used.			
Incident Roles	The number of individual Incident Management licenses purchased.			
Request Roles	The number of individual Request Fulfillment licenses purchased.			
Problem Roles	The number of individual Problem Management licenses purchased.			
Change Roles	The number of individual Change Management licenses purchased.			
Install Date	The date on which the license is installed.			
Status	Indicates whether the license is currently valid.			

NOTE: Highlighted fields apply in Service Manager only.

6.7.2 Host Tab

The Host Tab shows the host name and IP address for the server where the application is deployed.

6.7.3 Install Tab

The Install Tab allows a new license to be entered using a License Key and Certificate for the application.

Updating License Information

To update License Information:

1. Select Setup > Licenses > Install. The Install Tab appears.

Licensing				
License	Host	Install	Users	
License Key				
Certificate				
			Save	

- 2. Enter the license key for the application.
- 3. Enter the Certificate details.
- 4. Click Save. The License tab will show the updated license details.

6.7.4 Users Tab

The Users Tab lists all current Users of the system, including their assigned processes. Administrators can filter the list based on process by using the Filter drop-down box in the top right corner of the Users tab.

Licensing							
Licen	ise	Host In	stall	Us	sers		
First Name	≣ Last Name	Username	≡ ;	nciden Proces	All Users [sy All Users [sy Change Proc Incident Pro	s] :ess Users [: :ess Users [sys]
Vaibhav	Jain	vaibhav@epm.bl	r.novell.com		Problem Proc Request Pro		
Joe	К	joe@epm.blr.nov	ell.com	9	0	0	0
Ingo	Engels	ingo@epm.blr.no	vell.com	\bigcirc	0	0	0
Craig	Wilson	craig@epm.blr.no	ovell.com	0	0	0	0
Sankar	R	sankar@epm.blr	novell.com	\bigcirc	\checkmark	0	\bigcirc
Kamal	К	kamal@epm.blr.r	novell.com	9	0	9	0
		1 - 6 of 6 R	Results				
						Done	

NOTE: The Process filter and columns (Problem, Change and Request Process Users) apply in Service Manager only.

6.8 Database

This section is used to specify the JDBC Database connection details that the service management application uses to connect to the database.

6.8.1 Configuring Database Settings

To configure database settings:

1. Select Setup>Database>Edit The Database Configuration screen appears.

Database Configuration
Database
Database Type
PostgreSQL 👻
Database Server Host
10.71.65.64
Database Server Port
5432
Database Name
nsd
Database Username
nsd
Password
•••••
Cancel Advanced Test
Save

Database Setup	
Database Type	Use the dropdown box to select the type of database.
Server Host	Enter the IP Address of the Server Host.
Server Port	Enter the Server Port number.
Database	Enter the database name.
User name	Enter the Username
Password	Enter the Password.

- 2. Enter or modify database connection details
- 3. Select the Test button to verify the details entered and check the connection
- 4. Click Save.

NOTE: The system must be re-started for any changes to take effect.

6.8.2 Test Button

Test

Allows the Administrator to validate the database connection details between the service management application and the database. A system message will advise whether the connection was successful.

6.8.3 Advanced Button

Advanced

The Advanced options allows the Administrator to change the default connection type, as well as generating scripts based on the database selected. *When the Advanced button is clicked, the Connection Type field displays a drop-down menu to select the JDBC connection. This option is set by default to Internal JDBC.*

NOTE: Changing the connection type to Custom JDBC Driver allows the Administrator to change the driver. *This option is NOT recommended.*

Database Configuration
Database
Connection Type
Internal JDBC
Database Type
PostgreSQL 💌
Database Server Host
10.71.65.64
Database Server Port
5432
Database Name
nsd
Database Username
nsd
Password
•••••
Cancel Create Upgrade
Drop Test Save

The buttons displayed provide the following functionality:

Advanced Settings	Description		
Create	Generates a SQL creation script for the connected database that can be used by a DBA to create the system database.		
Upgrade	Allows DBAs to upgrade to the database for a new release.		
	NOTE: Before upgrading make a backup of the existing database.		
Drop	Creates a script that the database administrator can run against an existing system database to erase the schema and content.		

6.9 Backing-up and Restoring Internal PostgreSQL Database

6.9.1 Backing-up Internal PostgreSQL Database

To take a backup of the internal PostgreSQL database, perform the following steps:

1. Stop Servicedesk service, by running the following command:

service servicedesk stop

2. witch to postgres user, by running the following command:

sudo -su postgres

- 3. Go to the root level (/) or to the /tmp to avoid permission issue warning Example: cd /tmp
- 4. Take database backup and keep it in /tmp location with file name "servicedesk_db.backup" pg_dump --dbname=servicedesk --file=/tmp/servicedesk_db.backup -encoding=UTF8 --blobs --format tar
- Start the service desk service, by running the following command: service servicedesk start

6.9.2 Restoring the Internal PostgreSQL Database

To restore the internal PostgreSQL database, perform the following steps:

- 1. Copy the database backup to the /tmp location
- stop Servicedesk service, by running the following command: service servicedesk stop
- Switch to postgres user, by running the following command: sudo -su postgres
- 4. Go to the root level (/) or to the /tmp to avoid permission issue warning

Example: cd /tmp

5. Drop existing internal database.

If the drop fails, then the database is being used. Example: servicedesk any other database viewer tool. Ensure that you stop those services)

dropdb servicedesk

6. Create empty internal database, by running the following command:

```
createdb servicedesk --template=template0 --encoding=UTF8 --
owner=sdadmin
```

- 7. Restore database from the backup file, , by running the following command: pg_restore /tmp/servicedesk_db.backup --dbname=servicedesk -n public
- 8. run vacuum command to optimize, by running the following command:

vacuumdb -f -z servicedesk

 Start the service desk service, by running the following command: service servicedesk start

6.10 LDAP

- Section 6.10.1, "LDAP Authentication," on page 545
- Section 6.10.2, "Active Directory Integration," on page 547
- Section 6.10.3, "LDAP Server Integration," on page 554
- Section 6.10.4, "LDAP/Active Directory Advanced Settings," on page 558
- Section 6.10.5, "User Directory or Domain Migration," on page 563

6.10.1 LDAP Authentication

There are several ways to authenticate users of the service management application. By default the system uses its internal authentication mechanism but there is also the option to authenticate against one or more Directory Servers or use OpenID Providers.

Internal Authentication

Using internal authentication requires the Administrator or Supervisor to create accounts for all User types by entering the contact information, access levels and password. This information is then saved to the system database. The typical case for using Internal Authentication is where there are few Users, or in an environment that has no pre-existing directory server. Usually, the Administrator would configure the User accounts prior to announcing the system is operational, and from that point on, maintain the accounts as necessary. (See: Create Customers or Create Users.)

OpenID Providers

OpenID is a decentralized process to verify a Customer's or User's online identity. It addresses the single sign-on issue by not relying on a centralized website to confirm a User's identity. The system can be enabled to be an OpenID consumer, which provides seamless authentication between third

party authentication utilities and the service management system. OpenID Providers are configured within the Social tab, and Customers or Users that have accounts with the configured OpenID Providers can log into the system by selecting the relevant icon on the Login page.

Directory Server Authentication

The system allows the Administrator to connect to one or more Directory Servers for User authentication purposes. This removes the need to create User accounts as it allows the application to synchronize User accounts and access levels with the existing Directory Server. It has the added benefit of allowing the Administrator to work with existing infrastructure. (See: AD Authentication or LDAP Authentication.)

Directory Server Groups (External Authentication)

Roles are used to grant access within the application. Users must be assigned to Groups on the directory server that correspond to the Roles within the support system. Group members are assigned Roles and access levels within the service management tool.

The default group names the system expects to find on the directory server are:

- Administrators
- Supervisors
- Technicians
- Partners
- Managers
- Finance
- Customers

The Group names can be customized in the LDAP/Active Directory Advanced tab. Users can belong to more than one group, for example if a User holds the Roles of Technician and Manager, they would belong to the Technicians and Managers groups.

NOTE: Users can have only one of the Partner, Supervisor and Technician Roles. Therefore, they can belong to only one of these groups. However, they may also belong to any other group, or combination of groups.

The following fields may or may not be mapped, depending on the options set by the system Administrator:

- First Name
- Last Name
- Email
- Phone
- Mobile
- Pager
- Address

- City
- Zip
- Country

Email Address

All User accounts must include an email address to be successfully imported into the system. If additional fields have been mapped from the authentication server to corresponding fields in the application, a drop-down menu containing all the optional values for the field will be available beside the mapped field. Choose the correct value from each list.

Mixed Mode Authentication

The application can use a combination of internal and external authentication. This means, the service management tool can be synchronized with a Directory Server to import User and Customer details as well as allowing Customer Accounts to be created directly within the system. Such a feature is useful, if the service and support solution is being used for internal and external customer support.

To enable Mixed Mode authentication, after the system has connected to the Directory Server, move to the Setup>Privileges>Customer tab and enable the Include Customers option to display the Mixed Mode field. Set the Mixed Mode option to Yes.

NOTE: If authenticating against a Directory Server, all User accounts will validate against the server except for the application default Administrator User. The default Administrator User account details can be modified within the My Account tab of the application.

6.10.2 Active Directory Integration

Active Directory is a unique implementation of the LDAP standard, as the requirements for communication need to conform to the Microsoft[™] Windows Authentication protocols. To meet this need, it is necessary to enter all domains from which Users will authenticate. Multiple sources of Active Directory can be synchronized with the system, if required.

NOTE: •From ZENworks Service Desk 8.3.1 onwards, Setup > LDAP is changed to Setup > User Sources.

• Additionally, Azure Active Directory is available as one of the user sources

For more information on Azure Active Directory Integration, see Azure Active Directory Integration.

Configuring the Active Directory Integration

To configure the Active Directory integration:

- 1. Select Setup > LDAP (User Sources)
- 2. Click New

The LDAP/Active Directory Server (User Source Configuration) screen tab is displayed.

- 3. Enter the Server Name
- 4. Select Active Directory within the Type drop down list

LDAP / Active Directory Setup			
Server			
Server			
Name			
Туре	Active Directory		

5. Define all the Domains from which Users will be authenticated

Domains will need to be entered in both NT and Windows 2000 domain naming systems formats. This is because Active Directory conforms to Microsoft[™], Windows NT and Windows 2000 authentication protocols.

Make entries with care, as they are not validated against the Directory Server by the system Domain Editor.

NOTE: Verify the Active Directory setup before you provide the Windows NT domain and Windows 2000 domain credentials.

Name Type	For mydomain.mycompany.com NT Style = MYDOMAIN 2000 Style = mydomain.mycompany.com
Active Directory	6
Win NT Domain	
Win 2000 Domain	

NOTE: Here is an example of both the naming conventions for the domain:

mydomain.mycompany.com

NT Style = MYDOMAIN

2K Style = mydomain.mycompany.com

- 6. Enables Import Groups, if you have configured Store and want to assign store items to an LDAP group using "LDAP Group Extension". To import LDAP Groups, select Import Groups and specify Group Admin DN, Password and Group Node/Base DN.
- 7. Click Save
- 8. Using the drop-down arrow, select the Default Domain, which is used in the following three ways:
 - on the login page
 - to authenticate against, when synchronizing with the Directory Server
 - where the system expects to find the User Groups.
- 9. Enter all other required fields to configure the Directory Server

10.

Settings	Description		
Security	Determines how the integration layer will authenticate. For Active Directory this should be set to Cleartext– Username + Password. Anonymous connections to Active Directory are rarely enabled.		
Server Host	Enter the hostname or IP address of the Active Directory Server. On a Windows NT domain this will be the primary domain controller.		
Server Port	The default Active Directory Server Port is 389. This is rarely changed.		
Username	Used by the system to authenticate against the Active Directory Server when reading account information. The domain prefix/suffix will be appended, based on the default domain, when connecting to the Server.		
Password	Enter the Password for the Username account.		
Users Node	The component of the base domain name that refers to the location of the User Groups .For example, if the location of the User Groups is the following:		
	ou=UserGroups, ou=MIS, dc=myoffice, dc=mycompany, dc=com (SeeLDAP/Active Directory Advanced Settings for information on Group configuration.)		
	Groups must be in the default domain, in this case myoffice.mycompany.com. The Users Node only needs the location of the Groups within the default domain, so the Users Node in this example will be: ou=UserGroups, ou=MIS.		
Additional Filter			
LDAP Query	In this field, you can specify an additional LDAP query to filter-out records based on specified criteria. Filter Query is applied on user attributes and will be applied only within the group names specified in the Advanced tab.		
	Following is an example of the LDAP Query:		
	(&(mail=*epm.com)((department=Biology)(depai tment=Chemical)))		
	NOTE: The filter query should be standard LDAP query (vendor specific).		

Settings	Description		
LDAP Groups for Store Item	Group Admin DN: Specify the group admin DN.		
	Example: cn=user, cn=users, dc=domain, dc=com		
	Password: Specify the password of the DN.		
	Group Node/Group based DN: If this field is not specified, then it considers the value specified in Users Node/Base DN.		
	NOTE: The above options are enabled only when you select Import Groups checkbox in the Groups section. This is used to assign a store item to an imported LDAP Group using the LDAP Group Extension.		
Locale			
Default Timezone	Select the default Timezone to be applied to all User accounts imported via Active Directory.		

11. Click Save.

Repeat the above process to add more than one authentication server for authorizing User access.

Azure Active Directory Integration

Azure Active Directory is a unique implementation of the LDAP standard, as the requirements for communication need to conform to the various protocols. To meet this need, it is necessary to enter all domains from which Users will authenticate. Multiple sources of Active Directory can be synchronized with the system, if required.

Azure Active Dire	ctory Setup
Server	
Server	
Name	MFZSD Azure AD
Туре	Azure Active Directory 🐱
	Required Azure Permissions: User. Read. All, Group. Read. All of type Application
Settings	
Server URL	https://login.microsoftonline.com
Tenant Id	5d896b8d-1ef6-4ecb-ab72-524661a27:
Client Id	42ba56e9-ebe6-4352-9e0a-cc1906837
Client Secret	•••••
Groups	
Import Groups	
	Required Azure Permissions: Group.ReadWrite.All of type Application
Locale	
Default Timezone	(GMT -8:00) Pacific Time (US & Canada); Tiju 🗸
	Cancel Save

Prerequisites:

• Register ZENworks Service Desk as an application with the Azure Active directory.

For more information, see Registering an Application or any documentation provided by the service provider.

NOTE: • While registering the application, use the following URLs as the redirect URI with Web platform:

- https://<FQDN>/LiveTime/WebObjects/LiveTime.woa/wa/oauthlogin
- https://<FQDN>/servicedesk/login
- Ensure that you select platform type as Web.
- Ensure that you add redirect URIs of all the public interfaces (IP or domain name) of ZENworks Service Desk.

- Obtain OAuth parameters (Tenant Id, Client Id, Client Secret) from the Azure for the registered ZSD application
- Provide required Azure API permissions for the registered ZSD application as displayed in the ZSD UI

Configuring the Azure Active Directory Integration

To configure the Azure Active Directory integration, perform the following steps:

- 1. Select Setup > User Sources
- 2. Click New

The User Source Configuration tab is displayed.

- 3. In the Server panel, specify the Server Name
- 4. In the Type drop down, select Azure Active Directory.

Ensure that you provide the User.Read.All, Group.Read.All permissions in the Application that you had created in the Azure portal.

- 5. In the Settings section, specify the following details that is obtained from the Azure portal after registering the application:
 - a. Server URL
 - b. Tenant ID
 - c. Client ID
 - d. Client Secret
- 6. Enables Import Groups, if you have configured Store and want to assign store items to an LDAP group using "LDAP Group Extension".

To additionally import groups for the store assignment, ensure that you provide Group.ReadWrite.All permissions in the application that you had created in the Azure portal.

- 7. In the Default Timezone, select the default Timezone to be applied to all User accounts imported via Active Directory.
- 8. Click Save.

Test Button



The Test button creates a connection to the Active Directory Server, applying the configuration settings. If successful, it will attempt to determine how many Users are in each group and display a Results Screen.

NOTE: If the test fails, an error message will display the cause.

Sync Button

Sync

The Sync button runs the synchronization process to import all Users from the Server Directory. If new Active Directory Accounts have been created and those Users require immediate access to the system, a manual synchronization would be used.

Only one synchronization can run at a time. When multiple Users need access, create the accounts, then run a single manual synchronization.

A manual synchronization may take some time as it depends on the connection speed with the external service. The manual synchronization works best for small directories. Larger Active Directory implementations can take some time to propagate the changes, so account information may not be immediately available.

Login

After successful configuration and import of user account, user can log into ZSD by providing their complete username. Click Login with Azure, you will be redirected to the Azure portal to complete the login process. After successful login, you will be redirected back to the ZENworks Service Desk portal.

NOTE: After successful login, ZENworks Service Desk will maintain its own session and will not depend on Azure session. Hence, Logging out from ZENworks Service Desk will not log you out from Azure.

Importing Customers

Customer details can be imported using Active Directory by enabling the option, if required. When the system is setup to synchronize with Active Directory, move to the Setup>Privileges>Customer tab and enable the Include Customers option.



If there is a need to create Customers using Active Directory and the system's internal authentication capability, Mixed Mode authentication can also be enabled. After the option to Include Customers is set to Yes in the Customer Privilege tab, the Mixed Mode field is displayed. Set this option to Yes to allow Customers to be created directly in the system and using Active Directory.

Imported Account Usernames

Accounts imported from Active Directory use the UPN as the Username, as opposed to the NT style login. The domain component of the UPN is derived from the selected domain in the popup on the login page, which means Users need to enter their login name only to connect to the support application.

Login details are passed directly to the directory server for authentication and are not retained within the service management system.

6.10.3 LDAP Server Integration

Multiple types and sources of directory servers can be synchronized with the system at any one time. Among the several LDAP servers supported by the system, and which this section discusses, are the following:

- Open LDAP
- Netscape Directory Server
- Micro Focus eDirectory

It should, however, be noted that LDAP does follow a standard and as such the settings detailed herein should also apply to other implementations.

Configuring LDAP Server Integration

To configure LDAP Server integration:

- 1. Select Setup>LDAP
- 2. Click New

The LDAP /Active Directory Server tab is displayed.

3. Enter the Server Name

(If the system is to synch with Zenworks, ensure the Server Name matches the User Source Name used by Zenworks.)

4. Select LDAP within the Type drop down list

LDAP Setup	
Server	
Server	
Name	
Туре	LDAP Server
Settings	LDAP Server
Security	Active Directory ie + Password -

5. Complete the Settings fields

6	•	

Fields	Description
Security	Secure Socket Layering (SSL) encryption is provided for Active Directory and LDAP server integration. Details entered here determines how the integration layer authenticates.
	User authentication can be with Secure Socket Layering (SSL) or Clear Text. Select Anonymous or User name and Password.
	If Anonymous is selected, ensure anonymous access to the directory is available.

Fields	Description
Server Host	Enter the host name or IP Address of the LDAP Server.
Server Port	This is the LDAP Server Port. The default is 389.
User name	The system authenticates the user name against the LDAP Server. Leave this blank for anonymous connections.
	Where a user name is provided, Netscape allows the internal users to connect as the account name, so using 'cn=Directory Manager' is acceptable.
	Open LDAP expects the fully qualified Domain Name for the user, regardless of access level, so at the very least 'cn=Manager,dc=example,dc=com'.
	For other accounts the user BaseDN is required. Users logging in need only enter their login name, it is assumed the login name will be unique across the entire directory.
Password	If a User account is specified in the User name field, enter the account password.
BaseDN	<i>The</i> Base Domain Name refers to the domain location of the User Groups. For example, assume that the location of the User Groups is the following:
	ou=UserGroups,ou=MIS,dc=myoffice,dc=mycompa ny,dc=com
	The above String would be the BaseDN.
Additional Filter	
LDAP Query	In this field, you can specify an additional LDAP query to filter-out records based on specified criteria. Filter Query is applied on user attributes and will be applied only within the group names specified in the Advanced tab.
	Following is an example of the LDAP Query:
	(&(mail=*epm.com)((department=Biology)(depar tment=Chemical)))
	NOTE: The filter query should be standard LDAP query (vendor specific).

Fields	Description
LDAP Groups for Store Item	Group Admin DN: Specify the group admin DN.
	Example: cn=user, cn=users, dc=domain, dc=com
	Password: Specify the password of the DN.
	Group Node/Group based DN: If this field is not specified, then it considers the value specified in Users Node/Base DN.
	NOTE: The above options are enabled only when you select Import Groups checkbox in the Groups section. This is used to assign a store item to an imported LDAP Group using the LDAP Group Extension.
Locale	
Default Timezone	Select the default Timezone to be applied to all User accounts imported using the authentication server.

7. Enter all required fields to configure the Directory Server

LDAP Setup	
Server	Advanced
Server	
Name	epm.blr.novell.com
Туре	LDAP Server
Settings	
Security	Cleartext - Username + Password 🔹
Server Host	127.0.0.1
Server Port	389
Username	Administrator
Password	••••••
Base DN	ou=People,dc=MY-DOMAIN,dc=c
	(e.g. ou=Groups,DC=example,DC=com)
Locale	
Default Timezone	(GMT +5:30) New Delhi
Test	Sync Delete Cancel
	Save

Test Button

Test

The Test button will create a connection to the LDAP Server using the configuration settings. If successful, it will attempt to determine how many Users are in the top level of each group and display a Results screen.

NOTE: If the test fails, an error message will display the cause.

Configuring OpenLDAP for ZENworks Service Desk

While configuring OpenLDAP for ZENworks Service Desk, ensure that you consider the following points:

- 1. The LDAP group has objectClass of top and groupOfUniqueNames
- 2. The givenName, sn, and mail attributes are specified.
- 3. In the Service Desk LDAP settings, set the Include Disabled Accounts setting to Yes

Following are the LDIF examples to create a user, to create a group and to add user to the group:

1. To create a user:

```
# User Entry (use with ldapadd utility)
dn: cn=user1,dc=example,dc=com
cn: user1
objectClass: inetOrgPerson
givenName: user
sn: one
mail: user1@example.com
userPassword: <userpassword>
```

2. To create a group: (At least one user must be added as a member while creating the group)

```
# Group Entry (use with ldapadd utility)
dn: cn=group1,dc=example,dc=com
cn: group1
objectClass: top
objectClass: groupOfUniqueNames
uniqueMember: cn=user1,dc=example,dc=com
```

3. Add user to the group:

```
# Add Member Entry (use with ldapmodify utility)
dn: cn=group1,dc=example,dc=com
changetype: modify
add: uniqueMember
uniqueMember: cn=user2,dc=example,dc=com
```

Synch Button

Sync

The Synchronization button runs the synchronization process manually. It is most useful for the initial deployment, and when new directory server accounts have been created for Users who require immediate access to the system.

If using Certificates ensure the certificate details are entered in the Certificates tab before synchronizing.

Only one synchronization can run at a time. For multiple users needing access, create the accounts on the LDAP server then run a single manual synchronization.

A manual synchronization may take some time as it depends on the connection speed with the external service. The manual synchronization works best for small directories, as larger directories take more time to propagate changes.

Importing Customer Details

Customer details can be imported using LDAP by enabling the option, if required. When the system is setup to synchronize with LDAP, move to the Setup>Privileges>Customer tab and enable the Include Customers option.



If there is a need to create Customers using LDAP and the system's internal authentication capability, Mixed Mode authentication can also be enabled. After the option to Include Customers is set to Yes in the Customer Privilege tab, the Mixed Mode field is displayed. Set this option to Yes to allow Customers to be created directly in the system and using LDAP.

6.10.4 LDAP/Active Directory Advanced Settings

Before setting up the LDAP/ADS configuration within the system, the Advanced settings should be revised. The default setup assumes that the User Groups that the system uses to authenticate match what is on the server, and that the User information imported matches the attributes available on the server.

LDAP/Active Directory Advanced Options Set-up

To configure the Advanced options within the LDAP/Active Directoy Setup window:

1. Select Setup>Authentication

The LDAP /Active Directory Setup screen appears.

- 2. Click Edit
- 3. Move to the Advanced tab of the selected Authentication Server

User Groups Administrator Role Administrator Role nsdSupervisors Technician Role nsdTechnicians Patner Role nsdPatners Manager Role nsdRustomers Mobile Standard Custom Customer Role nsdCustomers Mobile Standard Custom Yes No Default Date Style mm/dd/yy Technicians Yes No Standard Custom Standard Cu	Active Directory	Advanced Setup		
Update Schedule Interval Weekly Sum Opmmencement Time Sun Sun Baddministrators Supervisor Role nsdAdministrators Supervisor Role nsdSupervisors Technician Role nsdRanagers Pather Role nsdManagers Pinance Role nsdUcstomers Manager Role nsdUcstomers No Yes No Default Date Style mm/dd/yy Technicanard Outom Yes No Yes	Server	Advanced		
Interval Weekly Commencement Time Sun Supervisor Role nsdAdministrators Supervisor Role nsdSupervisors Technician Role nsdTechnicians Patner Role nsdPartners Manager Role nsdManagers Pinance Role nsdGustomers Settings No Include Disable Yes No Standard Customer Standard Default Date Style mm/dd/yy Yes No Customer Standard Outom Custom Settings No Include Customers No Default Date Style mm/dd/yy Yes No Custom Standard Custom Custom Settings No Include Customers No Default Date Style mm/dd/yy Yes No Custom Standard Custom Custom Settings No Standard Custom Standard C				Revert to defaults
Individe Weekly Commencement Time Sun Supervisor Role nsdAdministrators Supervisor Role nsdSupervisors Technician Role nsdFachnicians Pather Role nsdPartners Manager Rol nsdManagers Phane © Standard Customer Role nsdCustomers Mobile © Standard Custom ©	Update Schedule			
commencement Time Sun © 1:00 User Groups Administrator Role nsdAdministrators Supervisor Role nsdSupervisors Technicians msdTechnicians Patner Role nsdPartners nsdPatners msdIanagers Phane Role nsdCustomers Settings No Include Disable Yes Accounts Yes Default Date Style mm/dd/yy (it) Standard Custom Custom Custom Custom (it) Standard Custom Custom Custom (it) Standard Custom Custom Custom (it) Standard Custom Custom (it) Standard Custom (it) Standard Custom Custom (it) Standard (it) St	Interval	Weekly 🔻	First Name	Standard Custom
User Groups Administrator Role NsdSupervisors Technician Role nsdTechnicians Patner Role nsdPartners maid maid Patner Role nsdRanagers Pinance Role nsdCustomers Manager Role nsdCustomers Mobile Yes No Default Date Style mm/dd/yy Include Custom Yes No Standard Custom Yes No Default Date Style No Standard Custom Yes No Standard Custom Yes No Standard Custom Yes No Standard Custom Standard </td <td>Commencement Time</td> <td>Sun 🔻 @ 0:00 🔻</td> <td></td> <td>·</td>	Commencement Time	Sun 🔻 @ 0:00 🔻		·
Administrator Role nsdAdministrators Supervisor Role nsdSupervisors nsdTechnicians nsdTechnicians Partner Role nsdPartners nsdPartners nsdManagers Finance Role nsdCustomers Oustomer Role nsdCustomers Monger Role Yes No Fax Default Date Style Yes Monger Custom Custom mm/dd/yy T Pager Standard Custom Custom ger Custom T Standard Custom Custom Standard Custom Custom Standard Custom Stan	User Groups		Last Name	Standard Ocustom
Supervisor Role nsdSupervisors Technician Role nsdTechnicians Partner Role nsdPartners nsdManagers insdGinance Customer Role nsdCustomers Settings Include Disable Accounts Yes Yes No Default Date Style mm/dd/yy Include Customer Imm/dd/yy Include Customer Imm/de/yy Include Customer Imm/de/yy Include Customer Imm/de/yy Include Customer Imm/de/yy Imm/de/yy Imm/de/yy <th>-</th> <th>nsdAdministrators</th> <th></th> <th>sn 💌</th>	-	nsdAdministrators		sn 💌
Technician Role nsdTechnicians Partner Role nsdPartners Manager Role nsdFinance Customer Role nsdCustomers Noclude Customers No Include Customers Yes No Default Date Style mm/dd/yy Yes No Guitor Custom Settings Standard © Custom Mobile Standard © Custom mobile Custom Yes No Default Date Style mm/dd/yy Yes No Settings Standard © Custom Yes No Customer Custom Standard © Custom Custom Settings Standard © Custom Yes No Standard © Custom Standard © Custom Standard © Custom Standard © Custom Standard © Custom Technicians Standard © Custom Technicians <	Supervisor Role		Primary Email	Standard Custom
Partner Role nsdPartners Manager Role nsdManagers Finance Role nsdCustomers Customer Role nsdCustomers Settings Yes No Include Customers Yes No Default Date Style mm/dd/yy Yes No Im/dd/yy Include Customers Im/dd/yy Yes No Im/dd/yy Include Customers Im/dd/yy Include Customers Im/dd/yy Yes No Im/dd/yy Include Customers Im/dd/yy Im/dd/yy Im/dd/yy				mail 💌
Manager Role nsdManagers Finance Role nsdCistomers Customer Role nsdCustomers Include Disable Yes Accounts Yes Ves No Default Date Style mm/dd/yy Include Customers Standard Customer Role Standard Customer Role Standard Include Customers Yes No Fax Include Customers Imm/dd/yy Include Customers Yes Include Customers Include Custom Include Customers Standard Customer Custom Include Custom Include			Email Alias	Standard Custom
Finance Role nsdFinance Customer Role nsdCustomers Settings Yes Include Disable Yes Yes No Default Date Style mm/dd/yy mm/dd/yy Image: Address Standard Ostandard Custom ger Image: Address Standard Ostandard Custom Include Customers Image: Mobile Image: Include Customers Image: Image: Image: Image:<				mail 💌
Customer Role nsdCustomers Settings Yes Include Disable Yes Accounts Yes Default Date Style mm/dd/yy Include Customers Yes Default Date Style mm/dd/yy Include Customers Standard Customer Role Standard Include Customers Yes No Fax Include Customers Standard Include Customers Tes No Pager Include Customers Standard Customer Role Include Custom Include Customers Standard Include Customers Standard Include Customers Standard Include Customers Standard Include Customers Include Custom Include Cus			Phone	Standard Custom
Settings Include Disable Accounts Yes No Default Date Style mm/dd/yy Imm/dd/yy				
Include Customers Ves No Default Date Style mm/dd/yy Image: Standard Customer Standard Customer Image:		nsacustomers	Mobile	Standard Custom
Accounts Include Customers Default Date Style mm/dd/yy Imm/dd/yy Pager Imm/dd/yy Pager Address Imm/dd/yy Imm/dd/yy Pager Imm/dd/yy Imm/dd/yy Pager Imm/dd/yy Pager Imm/dd/yy Imm/dd/yy Pager Imm/dd/yy Imm/dd/yy Imm/dd/yy Pager Imm/dd/yy Imm/dd/yy Imm/dd/yy Imm/dd/yy Imm/dd/yy Imm/dd/yy Imm/dd/yy Imm/dd/yy Imm/dd/yy <th>_</th> <th>Yos No</th> <th></th> <th></th>	_	Yos No		
Include Customers Yes Default Date Style mm/dd/yy mm/dd/yy Image: Pager Image: Address Standard O Custom Image: Image: Image: <			Fax	Standard Custom
Default Date Style mm/dd/yy Pager Standard Custom pager Address Standard Custom Cu	Include Customers	Yes No		
Address pager Address Standard City Standard City Standard Custom I I	Default Date Style	mm/dd/yy 💌 🍯	Pager	
Address Standard Custom City Standard Custom City Standard Custom City Standard Custom Cus				
City Standard Custom Zip Standard Custom Country Standard Custom Country Standard Custom Custom Custom Custom Custom Custom Custom Custom			Address	
City Standard Custom Standard Custom				
Zip Standard Zip Standard Country Standard Country Standard Custom Image: Standard Customer Orgs Line Managers Yes No			City	
Zip © Standard © Custom Country © Standard © Custom © Standard © Custom © Standard © Custom © Standard © Custom © DjectGUID © Standard © Custom © DjectGUID ▼			City	
Country Standard Custom Country Standard Custom GUID Standard Custom GUID Standard Custom objectGUID Customer Orgs Line Managers Yes S No			Zin	
GUID Standard Custom objectGUID Customer Orgs Line Managers Yes @ No			Σip	Standard Custom
GUID Standard Custom objectGUID Customer Orgs Yes @ No Line Managers (Yes @ No			Question	
GUID Standard Custom objectGUID Customer Orgs Line Managers Yes S No			Country	
Customer Orgs Line Managers Yes No				
Customer Orgs (See Yes (Construction of the Vector of the			GUID	Custom
Line Managers (Ves () No				objectGUID 🔹
			Customer Orgs	🔘 Yes 🔘 No
Cancel Save			Line Managers	🔘 Yes 🔘 No
Current Save				Cancel Save

4. Enter the relevant details for the fields, as required

5.

Field	Description
Revert to Defaults	Resets the installation defaults.
Update Schedule	Sets a routine synchronization to update the system with current AD/LDAP accounts. Select the required Daily, Weekly or Monthly intervals and Commencement details.
Commencement Time	Set the day of the week and time the system is to start automatically synchronizing with the directory server.
User Groups	Provides imported Users Roles. (The system will look for these groups by default)
	The User Group names can be customized, only requiring a unique name for each group. The grou names on the Directory Server must be identical t the User Group names entered here. Customize o use the default User Group names as necessary.
	Members of each group will be assigned the appropriate Role within the system. To assign multiple Roles to a User, make sure they are members of each of the required groups.
	Users can have only one of the Supervisor, Technician or Partner Roles but they can also hav any other Role or combination of Roles.
Settings	Include Disable Accounts: Set to Yes if the system is to import disabled accounts details when synched with an LDAP/AD server.
	Include Customers: Set to Yes if the system is to import Customer details when synched with an LDAP/AD server.
	Default Date Style: Set this field as the default date format for imported users.
	NOTE: Ensure that you set this field before importing LDAP users, and this will be applicable only for newly imported users.

Field	Description
Attribute Mapping	Maps attributes from the directory server to corresponding fields in the system. Native system fields are First Name, Last Name, Email (A unique Email Address must be included for a User account to be created), Phone, Mobile, Pager, Address, City, Zip and Country.
	NOTE: Mandatory User information for new and existing User accounts include the First Name, Last Name and Email address. If these details are not available, the application will not validate an existing User account and automatically reassign any open or active requests to another valid User.
	<i>Standard</i> :Next to each field is a drop-down menu containing the list of default fields specific to either LDAP or ActiveDirectory server type. For each native name, the default fields are selected. Use the default mapping or select the mapping attribute as required.
	Custom: Select the Custom option to manually enter an Attribute Field.
GUID	Global Unique Identifier
	For ADS select objectGUID
	For OpenLDAP select entryUUID
	For eDirectory select GUID.
LDAP User fields/ Mixed Mode User Fields	The LDAP User field headings will be replaced with any custom LDAP/ADS Accounts fields created by the Administrator in Setup>Custom Fields (See Custom Fields.), or Mixed Mode User Fields if the Mixed Mode option is enabled in the Server tab.
	Use the drop-down list to select the appropriate mapping to the matching directory server field or select Custom to manually enter a Field.
Customer Orgs	Organizational Unit relationships can also be mapped from the authentication server. By default this is not enabled. To activate Customer Organizational Unit mapping, select Yes for the Import Customer Organizational Units option and define where the Company and Department information is to be derived.

Field	Description	
Line Managers	LDAP attribute that defines a Customer's line manager, which is used for processing approvals on Service and Change Requests. Only system users with the Customer Role can be assigned as Line Managers.	

6. Click Save.

Mapping Fields to the Matching Directory Server Field

The LDAP User field headings will be replaced with any custom LDAP/ADS fields created by the Administrator in Setup>Custom Fields. See Custom Fields. Use the drop-down list to select the appropriate mapping to the matching directory server field or select Custom to manually enter a Field.

LDAP User field 1	Standard Groups	 Custom
LDAP User field 2	Standard	Custom

User details are imported when synchronization with the Active Directory/LDAP server takes place. Imported fields cannot be modified through the service management tool directly, the appropriate authentication server console must be used.

Import Customer Org Units

Organizational Unit relationships can also be mapped from the authentication server. By default this is not enabled. To activate Customer Organizational Unit mapping, select Yes for the Import Customer Organizational Units option.

Customer Orgs	🖲 Yes 🔘 No		
Company	Standard	Custom	
	company		-
Department	Standard	Custom	
	department		

NOTE: The details of the Org. Units are not populated upon this synch, only the Org. Unit names.

For the Org. Unit details to be assigned to Customer or User Information, create the Org. Unit in the Supervisor>User>Organizational Units tab and ensure the Org. Unit name is identical to what is stored in the authentication server. If the details are not identical, the system will create another Org. Unit.

6.10.5 User Directory or Domain Migration

If the user accounts are migrated to a different directory server, or to another domain in the same server, perform the follow these steps in the ZENworks Service Desk to sync the existing accounts with the new server:

IMPORTANT: Ensure that the email and username for accounts are the same in the new source, else the accounts will not be reconciled in the ZENworks Service Desk.

- 1. In the ZENworks Service Desk, modify the existing LDAP configuration and update the details as required.
- 2. Save the details and sync the changes.
- 3. The existing user accounts in ZENworks Service Desk will be synced with the new LDAP source.

NOTE: It is recommended that you perform the steps in the test environment and then replicate the same in the production environment.

6.11 PSS

• Section 6.11.1, "Password Self Service," on page 563

6.11.1 Password Self Service

The Password Self Service option is provided for organizations using Password Management tools such as NetIQ SSPR, PWM, or other similar tools to enable users to manage their passwords themselves without contacting service desk.

This is applicable when the system is using Directory Servers such as Active Directory or eDirectory for user authentication. It is not applicable when using internal authentication.

It should be noted that these tools provide a URL in different formats to redirect the end users to manage their passwords, so administrators are advised to check the documentation of their PSS tool for the URL and type of services to provide – such as reset forgotten password, change current password, setup of challenge response, new user registration, and so forth. Organizations might prefer to provide service to either reset a forgotten password or change a current password.

When configured, PSS allows customers and users to manage their passwords in their directory servers, thereby reducing requests to the service desk and increasing end user productivity.

To configure PSS:

1 Select Setup > PSS

ழ பி	er	F	leports	ပို My A	ccount	@	Setup	
Email Custo	m Fields	Privileges	Customize	Localization	Licenses	Database	LDAP	PSS
PSS Setu	p							
Р	ss							
Edit								
Se	If Service	•						
Enable S	elf Service	Off	On					
	Settings							
Dis	play String URL	Password	Self Service					

2 On the PSS Setup page, click Edit.

PSS Setup		
PSS		
Self Service		
Enable Self Service	Off On	
	Cancel Save	

3 Set the Enable Self Service option to On.

PSS Setup	
PSS	
Edit	
Self Service	
Enable Self Service	Off On
Settings	
Display String	Password Self Service
URL	

- **4** Specify the required URL.
- 5 Click Save.
- 6 Log out to find the Password Self Service link on the main login screen.

By default, the system uses the display string **Password Self Service**. If you want to use your own display string or use a localized string, do the following:

- 1 Click Setup > Localization > Content,
- 2 Select UI Messages as the Category.
- **3** Select **PSS** as the message string.
- 4 Click Edit to change the display string.
- 5 Click Save after modifying the message string.

Category	UI Messages	•	
Message	PSS	•	
oss			
Format - Font Family -	Font Size -	55 HTTL	
A - B / U AR E 1	" ≣ ≣ ≡ ×	x ³	
Path: p			Words:3
Path: p Displayed on the main login page			Words:3

6.12 AAF Sources

Advanced Authentication provides multi-factor authentication to protect sensitive data by using a series of authentication methods.

NetIQ Advanced Authentication can be integrated with ZENworks Service Desk to provide a more secure way to access the Service Desk portals. The multi-factor authentication can be enabled for all the users imported from an LDAP (non-Azure AD) server and can be configured for all the user roles.

For more information, see the ZENworks Service Desk - Advanced Authentication Getting Started document in the ZENworks Service Desk documentation site.

6.13 SSO

6.13.1 Single Sign On

Single sign-on (SSO) options are provided for organizations using request header-based, single signon technologies such as Shibboleth. These work best with directory server technologies, as they keep the account details synchronized. It should be noted that some of these technologies rely on application server redirects to be implemented, so Administrators are advised to check the documentation of their SSO provider for details on how to activate and use request header-based Single Sign On.

For an overview of SAML-based SSO configuration, see Overview of SAML-based SSO configurations.

When configured, SSO allows Customers and Users who have logged in to their networks using their directory server authentication credentials to automatically access the service management application without re-entering their login details.

To configure SSO:

1. Select Setup > SSO.

SSO Setup	
sso	Social KeyShield SSO
Edit	
Single Sign On	
Active	Off On

- 2. Click Edit.
- 3. Toggle to On.

SSO Setup	
sso	Social KeyShield SSO
Single Sign On	0
Active	Off On
HTTP Headers	
Session ID	
Username	
Email	
	Cancel Save

4. Complete all fields:

Fields	Description
Session ID	Enter the name of the HTTP Header that contains the SSO session id. All the Headers can be viewed by clicking 🕕.
Username	Enter the name of the HTTP Header that will contain the Login of the User attempting to access the support system.
Email	Enter the name of the HTTP Header that will contain the email address of the User attempting to access the support system.

- 5. To view all Session Headers, click 🕕.
- 6. Click Save.

For Active Directory: userPrincipalName (UPN) which will be in the format of logon_name@domain_name.

Example: ppedron@opentext.com

For eDirectory: Logon name from the UID

Example: If UID is "cn=ppedron,o=opentext", then the parameter to be passed is just log in name. In this scenario, the login name is "ppedron".

NOTE: If you are using multiple directory servers of different types, then go through the identity provider's documentation on how to pass the attribute differently for different types of directories.

Overview of SAML-based SSO configurations

This document provides an overview of SAML-based SSO configurations. In this scenario, we have used Shibboleth as a SAML service and identity provider. However, similar configurations can be used for other providers that support SAML-based SSO.

Administrators are advised to check the documentation of their respective SSO provider for details on how to activate and use request header-based SAML SSO.

Commonly Used Terminologies

Following are some of the common terminologies that will be used in this document:

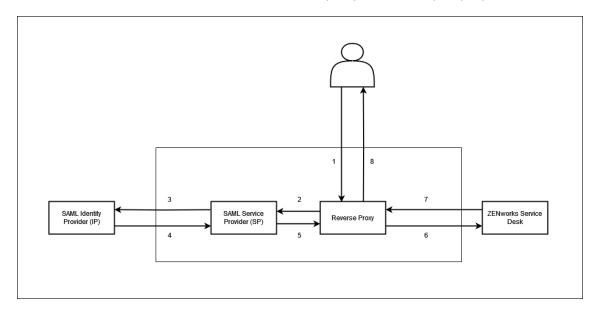
- Reverse Proxy: A web server (Example: Apache or Nginx) acting as a proxy for ZENworks Service. This will be the public-facing access point for the ZENworks Service Desk. Users will never directly interact with the actual ZENworks Service Desk server. You can select any proxy server recommended by the service provider. The reverse proxy should be installed on the same device where the SP is installed.
- SP: SAML Service Provider (Example: Shibboleth SP). Configured with reverse proxy. Generally, SP can be configured with any IDP supporting SAML.
- IDP: SAML Identity provider (Example: Shibboleth IDP).

- User: A Service Desk user.
- ZSD: ZENworks Service Desk server.

Workflow

The following steps provide a generic SAML-based SSO workflow:

1. Users access the ZENworks Service Desk via reverse proxy. The reverse proxy is protected via SP.



- 2. The SP detects the user's attempt to access the restricted content within the resource.
- 3. The SP generates an authentication request, and then sends the request to the user and then to the IDP.
- 4. The IDP authenticates the user and then sends the authentication response to the user, and then back to the SP.
- 5. The SP verifies the IDP response and sends the request through to the reverse proxy. The SP adds the required configured HTTP headers to the request.
- 6. Reverse proxy sends the request to the ZENworks Service Desk.
- 7. ZENworks Service Desk validates the users based on the HTTP headers and sends back the response to the reverse proxy.
- 8. The reverse proxy serves the requested content to the user.

Configuration

1. Set up an IDP (The organization can use the existing SAML SSO IDP).

For more information, refer to the respective IDP vendor documentation for the installation and configuration details.

- 2. Deploy a new device to host reverse proxy and SP.
- 3. Install the SP of your choice and its supported web server (reverse proxy).

For more information, refer to the respective SP vendor documentation for the installation and configuration details.

- Configure web server to act as a reverse proxy where request is protected by the SP.
 For more information, refer to the respective SP and web server vendor documentation.
- 5. Configure SP to communicate with IDP for authentication.

For more information, refer to the respective SP vendor documentation.

6. Configure IDP to accept the request from SP or register SP with IDP.

For more information, refer to the respective IDP vendor documentation.

7. On successful authentication, IDP should release the attributes email, and username (UPN in case of AD).

For more information, refer to the respective IDP vendor documentation.

8. SP should inject the SAML session, email, and username attributes to the reverse proxy as an HTTP header.

For more information, refer to the respective SP vendor documentation.

9. Configure SSO on the ZENworks Service Desk to accept the attributes for verification. For more information, see Single Sign On.

Important configuration consideration

Following are some of the important configuration consideration that should be noted while configuing SAML-based SSO:

- Make sure that the ZENworks Service Desk server is accessible to the public only via the reverse proxy address and not directly. This can be achieved by configuring the firewall.
- Ensure that the required HTTP header is injected only by the SP running on the same device. Since SP and a reverse proxy are installed on the same device, a simple rule of allowing header injection only by the same IP or local host might be sufficient.

For more information, refer to the respective reverse proxy vendor documentation.

Limitations

Following are some of the Limitations of SAML-based SSO:

- No common logout. i.e. Logging out from the ZENworks Service Desk will not log out from the IDP-SP session.
- The ZENworks Service Desk login page can be accessed directly, and the user can directly log
 into the ZENworks Service Desk. Hence, the SSO configuration should be used for ease of use to
 leverage SSO login and should not be used to enforce multifactor login.

6.13.2 Keyshield SSO

The Keyshield SSO feature is now integrated into ZENworks Service Desk this feature provides a single sign-on mechanism, and works with other Micro Focus products such as Filr, GroupWise, and Vibe.

KeyShield SSO is a single sign-on that enable users to access their applications without authenticate to each one of them. When configured, Keyshield enables customers and users who have logged onto their networks using their directory server authentication credentials, to automatically access the service management application without re-entering their login details.

To configure KeyShield SSO:

- **1** Select Setup > Setup > SSO.
- 2 In the SSO page, click KeyShield SSO.

SSO Setup		
sso	Social KeyShield SSO	
KeyShield SSO		
Enable KeyShield SSO	Off On	
Settings		
KeyShield Server URL		
API Authorization Key		
	Cancel Save	

- **3** Toggle On, then specify the following settings:
 - KeyShield Server URL: The KeyShield server's IP address (https:// <ipaddress>:<port>).
 - API Authorization Key: The API key generated in the Keyshield server.
- 4 Click Save.

6.13.3 Social

The Social tab is available when the OpenID Consumer option is enabled within the Setup>Privileges>System tab. This functionality delegates the authentication of Customers and Users when accessing the system to OpenID Providers.

Defining an OpenID Provider

To enter the account details for an OpenID Provider:

- 1. Select Setup > SSO > Social tab
- 2. Click New

SS	0		Social			
	Details					
	Name]	
	Enable (Yes	 ● No 			
	Icon	6				
	URL					

- 3. Complete the Name field
- 4. Select Yes to enable the Provider to authenticate Users and Customers
- 5. Click 🥢 to upload the OpenID's icon that will be displayed on the system Log in page

lcon	Choose File no file selected
	32 x 32 pixels

- Click Choose File to search for the image file The image must be 32x32 pixels.
- 7. Click ____ to upload
- 8. Define the URL details for the OpenID Provider
- 9. Click Save.

The icon for the OpenID Provider will now be active on the system Log in page.

6.14 Reports

6.14.1 Schedule Reports

Schedule Reports allow the Administrator to configure the system to automatically send reports via email to Supervisor, Technician, Finance, Partner and Manager Users on a regular basis. The content of the email is defined on a per Role basis with the reports drawn from the default system reports or those built using the system report builder.

Setting Up Scheduled Reports

To set up scheduled reports:

1. Select Setup>Reports

Scheduled Reports				
Schedu	le			
Role	🛓 Schedule	Active		
Finance	Daily @ 00:00	a		
Manager	Monday @ 05:00	2		
Partner				
Supervisor				
Technician				
	1 - 5 of 5 Results			

2. Select the relevant Role link

The screen defaults to the Details screen.

3. Click Yes within the Active field

Scheduled reports are enabled for all Users of selected Role.

email	Description
Send	Define if the automated reports are to be sent Daily, Weekly or Monthly.
Time	Using the 24 hour clock, set what time of day the report is to be emailed to the User Role group.
Content	
Date Range	Set the number of previous days, weeks or months that the report is to be calculated over.
Page Size	Nominate A4, Legal or Letter as the page format size for the report.
Selected Reports	
90	Add or remove reports in this section.

4. Complete the email details

Nominate the frequency and time of day the reports are to be sent.

5. Complete the Date Range for the emailed reports

The Date Range intervals include daily, weekly and monthly. Define the number and interval type for sending the reports.

- 6. Set the paper size
- 7. Click 😳 to add reports to the schedule

The screen defaults to the display Category and Name drop down lists.

8. Select the Report Category

The Name list is refined based on the Category selected. For example, if KPI is set as the Report Category the Names list includes all types of KPI summary reports included by default in the system.

Scheduled Reports	
Schedule	
Report	
Category Name Customer	Service Level Service Level Organization Configuration Finance
	Find Customer (Last Name)
	Cancel Add

9. Define the report Name and any other required options

Based on the Report Name selected, the options to create a trend report or define the results by specific parameters (i.e., Customer Name, Item Type, etc) are displayed.

10. Click Add

Repeats steps 7 to 10 to associate all the required reports with the scheduled reports email.

11. Select Test, if required

Schedul	ed Reports	
Sc	hedule	
	Report	
	Category	Service Level
	Name	Requests SLA Times by Customer
	Customer	Find Customer (Last Name)
		Cancel Add

12. Search and select the User who is to receive the test report

Ensure that the user creating the scheduled report must have the role for that type of report, to search and assign a recipient.

13. Click Test

A test copy of the report is sent to the defined User with the test interval range based on *one* day, week or month, not the actual number defined in the Previous field for the scheduled reporting period.

14. Click Save.

Repeat the above process for all relevant User Roles.

6.15 Billing

6.15.1 Billing

The Billing module allows Users to create Invoices, Purchase Orders and manage Customer support Contracts. Billing allows support organizations to charge Customers for support services provided, and manage Items purchased with Service Contracts.

When the Billing module is enabled by the system administrator, the Invoices and Purchase Orders sub-menu options are available within the application Finance tab. Purchase orders can simplify the tracking of where and when new Items are purchased or leased. This feature is not meant to replace an organization's original PO system, it is designed to easily link a specific PO number (and its associated vendor and date information) with an Item.

The Invoices section allows Customers to be billed for products (Items) or support services (Contracts) provided by the organization. An Invoice can be created when an Item and Service Contract is ordered by a Customer. Alternatively, Invoices can be created for Service Contracts alone, as the Item may already exist in the system.

Invoices can be generated through the following screens:

- Within the Invoices section
- When a request is created against an out-of-contract Item
- When an Item, Customer or Organizational Unit is created, or edited to assign a new SLA.

The Billing options include:

- Purchase Orders
- Contracts
- Invoices

Billing	Description	
Purchase Orders	Allow Users to track Items from the moment an order is placed to its delivery and implementation POs cover leased and purchased Items.	
Contracts	Within Contracts, Users can manage Customer Service agreements over a specific time period.	
Invoices	Allow Users to charge Customers for contracts. When Invoices are activated, Contracts are automatically enabled	

Billing	Description	
Display SLA Prices	Enables SLA Price fields to be visible in the SLA Editor screen. This allows the Supervisor to allocate costs to SLAs and assists with the calculation of Break Even Point costs for Service Items.	
	See: SLAs.	
Email Notifications	(This option is visible when Contracts are enabled.)	
	Enables the system to update Finance Users via automated emails, regarding Invoice and/or Contract related matters.	
Global Settings		
Currency	Defines the currency that is to be automatically applied by the system for all financial transactions.	

NOTE: Invoices and Contracts will not work when Global Items are in use. If Billing is enabled after the application has been in use, a Supervisor will need to assign owners to Global Items before Billing can be activated.

6.15.2 Invoices

💭 HOME REQUESTS OPERATIONS CHANGE CONFIGURATION STORE SETUP SERVICE USER KNOWLEDGE REPORTS FINANCE 🗹

The Invoices sub-menu option is available within the Finance tab when the option has been enabled by the system administrator. Invoices allows support organizations to charge Customers for support services provided, and manage Items purchased with Service Contracts.

(For more information about enabling Billing, see: Setup>Billing within the Administrator Guide.)

An Invoice can be created when an Item and Service Contract is ordered by a Customer. Alternatively, Invoices can be created for Service Contracts alone, as the Item may already exist in the system.

Invoices can be generated by the system through the following screens:

- Within the Invoices section
- When an Incident is created against an out-of-contract Item
- When an Item, Customer or Organizational Unit is created, or edited to assign a new SLA.

The following sections are covered within Invoices:

- Invoice creation creating an invoice for a Service Contract or an Item with a Service Contract
- Invoice summary screen Summary tabs, emailing and editing an Invoice, and information about an Invoice Status
- Invoice payment and delivery processing an Invoice when payment is required.

6.15.3 Creating Invoices

Invoices can be created for Items and associated service Contracts, and for Items or Service Contracts only.

Creating an Invoice to purchase an Item and Service Contract

To create an Invoice:

- 1. Select Finance>Invoices
- 2. Click New

The Customer tab appears.

- 3. To assign a Customer to the Invoice:
 - a. Search for a Customer who already exists in the system

Enter any known information such as their First Name, Last Name, Email Address, Org. Unit or Username in the Find Customer fields. To view a list of all Customers in the database, leave all the fields blank.

Invoice Editor			
Customer	Items Contract Summary		
Contact			
Name		Find Customer	
Email		First Name	Email
Phone			
Fax		Last Name	Phone
Pager			
Mobile		Username	Org. Unit
Org. Unit			
Address 1			
Address 2		Supported Org. Units	0
City		Only	
State			
Zip			
Country			
Delivery Details	✓ Use Customer Details		
		Cancel	Next

b. Click

c. Click on a Customer's name to assign them to the Invoice

The Delivery Details are automatically extracted from the Customer Details. If they are not the same, uncheck by clicking the tick in the Use Customer Details box and enter the correct details.

d. Select Next to continue.

The system moves to the Items tab.

- 4. To add an Item Type for an Item Order:
 - a. Select Add if the Invoice is to purchase a new Item

Otherwise, click Next to purchase a Service Contract.

b. Search for the Item Type to be associated with the Invoice

Leave the search field blank and click the Search button to display a list of Item Types that can be assigned to the Invoice

c. Select the relevant Item Type link to add it to the Invoice

Invoice Editor							
Customer	Items	Contra	ct Summar	v			
Item Type	lphone 6						
Unit Price	\$0.00						
Actual Price	0.00						
Units	1						
Taxable							
			(Cancel		Save	
🔯 Item Type	Item #	Unit Price	🔳 Actual Price 🔳 🛛	Units 🔳	Taxable 1	Total Price	■
		0 - 0 0	of 0 Results				

- d. Enter the Actual Price information, if relevant and the number of Units to be ordered
- e. Mark the order as Taxable if required

The tax is not included in the Actual Price but will be calculated within the Invoice Summary tab.

f. Click Save to add

The Item Type details are applied to the Invoice

Invoice Editor						
Customer	Items	Contra	ct	Summary		
🔯 Item Type	≣ Item #	Unit Price	E Actua	Il Price 🔳 Units	s 🔳 Taxable	Total Price
Iphone 6	TBA	\$	0.00	\$0.00	1	\$0.00
		1-1	of 1 Results			
		Delete	Ad	ld 🖉	Cancel	Next
		bbA				

g. To add more Item Types, select and repeat the above process. Alternatively, click Next to move to the Contract tab, if required.

- 5. To add a Service Contract for a newly ordered Item Type:
 - a. Select Add to add a Service Contract to the Invoice

Or, click Next to go to the Invoice summary.

- b. Select the appropriate SLA from the drop-down options
- c. Select the Item Type related to the Service Contract

To search for an Item Type enter any known details in the Find Item Type search field.

d. Click the Item Type link to assign it to the Invoice

Invoice Editor		
Customer	Items	Contract Summary
SLA	Warranty 💌	
Item Type	lphone 6	
SLA Price	\$0.00 per Annum	
Actual	0.00	
Units	1	
Taxable	V	
Time	Subscription	•
Start Date	01/07/16 12:34	
End Date	01/07/17 23:59	
		Cancel Save
SLA ≣ Item	Type 🔳 Item #	Contract Unit Price
		0 - 0 of 0 Results

- e. Amend the Actual Price, if relevant
- f. Check the Contract as taxable, if relevant
- g. Select the Time period covered by the Contract:

Subscription - a contract that covers a specified period of time

Time Limited Subscription - a contract that covers either a specified period of time or number of support hours, whichever limit is reached first

Support Hours - a contract that defines the number of support hours covered

Support Hours by Month - a contract that covers a total number of support hours purchased for a defined timeframe and allocated on a per month basis.

h. Click Save.

i. To add another contract to the Invoice, click

proc	Add ess.	and r	epeat the	above					
Inv	oice Edi	tor							
	Custor	mer	Items	Contra	ct s	ummary			
	SLA	≣ Item Type	≣ Item #	Contract Ui #	nit Price 🔳 Ad	ctual 🔳 Ui	_	≣ Taxat ours	ole Total 🔳
	Warranty	Iphone 6	TBA	TBA	\$0.00	\$0.00	1	N/A 🥑	\$0.00
				1 - 1 of	1 Results				
			D	elete	Add		Cancel		Next

6. Click Next to move onto the Summary page

Invoice Editor			
Customer	Items Contract	Summary	
			Invoice # 100034
Customer Details		Delivery Details	
Name	James Stewart	First Name	James
Org. Unit	Micro Focus - Information Technology	Last Name	Stewart
Address 1		Address 1	
Address 2		Address 2	
City		City	
State		State	
Zip		Zip	
Country		Country	
Order Details		Status	
PO Number		Invoice Status	Pending
Order Date	01/07/16 12:31	Delivery Status	Undelivered
Invoice Date	01/07/16 12:31	Payment Status	Pending Unpaid
Due Date	01/19/16 00:00	Payment Date	
Entered By	Kamal K	Shipping Date	01/07/16 12:31
Processed By		Tracking Number	
Details			
Custom 1			
Custom 2			
Custom 3			
Line Items			
Items	Item Type	■ Actual Price ■ Unit	s 🔳 Taxable Total Price 🔳
	Iphone 6	\$0.00	1 \$0.00
		Subtotal	\$0.00
Contracts	SLA 🔳 Item Type	Actual ≣ Units ≣ Price H	
	Warranty Iphone 6	\$0.00 1	N/A 🤡 \$0.00
		1 - 1 of 1 Results	
		Subtotal	\$0.00
Apply Terms		Costs	
Notes		Line Items Total	\$0.00
		Shipping	0.00
		Tax	\$0.00 (@ 13.00 %)
		Adjustment	0.00
		Total	
			Cancel Save

- 7. Enter a PO Number and make any other adjustments, if relevant
- 8. Click Save

- 9. Select **Email** to send the Invoice to the Customer, if required
- 10. Click Done.

Creating an Invoice to Purchase a Service Contract

To create a Service Contract Invoice:

- 1. Select Finance>Invoices
- 2. Click New

The Customer tab appears.

- 3. To assign a Customer to the Invoice:
 - a. To search for a Customer who already exists in the system

Enter any known information such as their First Name, Last Name, Email Address, Org. Unit or Username in the Find Customer fields. To view a list of all Customers in the database, leave all the fields blank.

Invoice Editor						
Customer	Items	Contract	Summary			
Contact						
Name				Find Customer		
Email				First Name	Email	
Phone						
Fax				Last Name	Phone	
Pager						
Mobile				Username	Org. Unit	
Org. Unit						
Address 1						
Address 2				Supported Org. Units		0
City				Only		
State						
Zip						
Country						
Delivery Details	Use Customer Details					
				Cancel	Next	

- b. Click
- c. Click on a Customer's name to assign them to the Invoice

The Delivery Details are automatically extracted from the Customer Details. If they are not the same, uncheck by clicking the tick in the Use Customer Details box and enter the correct details.

d. Select Next

The system moves to the Items tab and displays the following message



e. Click Next again

The system moves to the Contract tab.



- 4. To create a Service Contract:
 - a. Select Add to create the Service Contract
 - b. Select the appropriate SLA from the drop-down options

Invoice Editor	
Customer	Items Contract Summary
SLA	
Contract Type	manually n
SLA Price	SLA
Actual	0.00
Taxable	
Time	Subscription 🔹
Start Date	01/07/16 12:41
End Date	01/07/17 23:59
	Cancel Save
SLA E Contr Type	act Name Contract Unit Price
	0 - 0 of 0 Results

c. Select the Contract Type

d.

Contract Type	Description
Item Contract	To purchase a contract for an Item. Search and select an Item using the Find Item search.
Customer Contract	To purchase a contract for a Customer. Search and select a Customer using the Find Customer search.
Org Unit Contract	To purchase a contract for an Organizational Unit. Search and select an Org Unit using the Find Org Unit search.

- e. Amend the Actual Price, if relevant
- f. Check the Contract as taxable, if relevant
- g. Select the Time period covered by the Contract:

If *Subscription* is selected, the Start and End Dates are automatically completed by the system.

If *Time Limited Subscription* is selected, the Support Hours field is displayed and the number of support hours purchased by the Customer should be entered. Also, the Start Date and End Date fields should be completed manually, entering the length of time for the subscription period.

If *Support Hours* is selected, the number of support hours purchased by the Customers should be entered.

If *Support Hours by Month* is selected, a contract that covers a total number of support hours purchased for a defined timeframe and allocated on a per month basis.

(If a Contract is forward dated with a Start Date set in the future, the Pending Contract status is assigned. See Pending Contracts.)

- h. Click Save
- 5. To add another contract to the Invoice, click

		Add		and re	epeat the ab	ove									
р	roce	ess.													
	Invo	oice Edi	tor												
		Custor	mer		Items		Contra	ct	Summa	ary					
		SLA	■	Contract Type	Name	Co #	ntract Ui	nit Price 🔳	Actual	Units	≣ Ho	urs	Taxable	Total	■
		SLA		Per Item	ltem :Wifi Service (WIFI Service)	ΤB/	4	\$1 ,500.00	\$1,500.0	00	1	N/A	Ø	\$1,500	0.00
							1 - 1 of	f 1 Results							
					D	elete		Add		Can	icel		Ne	xt	

6. Click Next to move onto the Summary page

- 7. Make any adjustments, as required
- 8. Click Save
- 9. Select Email to send the Invoice to the Customer, if required
- 10. Click Done.

6.15.4 Invoice Summary

The Invoice Summary tab includes the invoiced Customer, delivery and order details. It allows Users to email the Invoice to relevant parties and displays the status of the Invoice. The summary screen also allows Finance Users to process an Invoice when payment is received.

The following fields are included with the Invoice Summary tab:

Fields	Description
PO Number	Auto-generated or manually entered order identification number.
Order Date	Auto-generated or manually adjusted order date.
Invoice Date	Auto-generated or manually adjusted date for the invoice creation.
Due Date	The date the invoice is due. Auto-generated based on the Default Invoice Due value defined by the Administrator.
Entered By	The User who created the invoice.
Processed By	The User who processed the invoice.
Invoice Status	Displays what stage of the order process the invoice is in.
Delivery Status	Details the status of delivery for items on the invoice
Payment Status	Details if the invoice has been paid
Payment Date	Date the invoice was processed for payment.
Shipping Date	Manually entered date of shipping.
Tracking Number	Reference number manually entered to track the order.
Apply Terms	For the system terms and conditions to be included in the PDF Invoice and the Invoice emailed to the Customer, tick the Apply Terms option.
Notes	Enter any additional Invoice information within the Notes field.
Shipping, Discounts and Taxes	Before saving an Invoice, any shipping costs to be included in the grand Invoice total can be entered in the Shipping field.

Fie	lds

Description

Adjustment

The Adjustment field records Customer discounts and will be subtracted from the final order total.

NOTE: A flat tax percentage can be added to taxable line Items included on the Invoice. This is a global property that is configured by the system Administrator, in Setup>Billing>Tax Rate, but can be edited if required.

Invoice Editor								
Customer	Items		Contract	Sur	nmary			
Edit	PDF						In	voice # 1 0003
Customer Details				De	livery Details			
Name	James Stewart				First Name	James		
Org. Unit	Micro Focus - Inf	formation T	echnology		Last Name	Stewart		
Address 1					Address 1			
Address 2					Address 2			
City					City			
State					State			
Zip					Zip			
Country					Country			
Order Details					Status			
PO Number	12				Invoice Status	Pending		
Order Date	01/07/16 12:39				Delivery Status	Undelivered	Proc	ess
Invoice Date	01/07/16 12:39			F	Payment Status	Pending Unp	aid	
Due Date	01/19/16 00:00				Payment Date			
Entered By	Kamal K				Shipping Date	01/07/16 12	39	
Processed By				Tr	acking Number			
Details								
Custom 1								
Custom 2	1							
Custom 3								
Line Items								
Contracts	SLA =	Contract Type	Name	Actual Price	≣ Units ≣	≣ Ta Hours	xable	Total Price ≣
	SLA	Per Item	ltem :Wifi Servi (WIFI Service)	ice \$1,5	00.00 1	N/A	0	\$1,500.00
				1 - 1 of 1 R	esults			
					Subtotal	\$1,500.00		
Apply Terms	\checkmark				Costs			
Notes					Line Items Total	\$1,500.00		
					Shipping	\$0.00		
				Т	ax (@ 13.00%)	\$195.00		
					Adjustment	\$0.00		
					Total	\$1,695.00		
						Email		Done

Emailing an Invoice

Once an invoice is created, selecting the Email button will send a copy of the Invoice to:

- The Customer who placed the order
- The system Finance User

- The User who recorded the Invoice
- The Customer who will take delivery, if different to the person who placed the order

If the system Administrator has enabled the Email Invoice functionality in the application Setup, the Invoice will be emailed automatically to the relevant parties when it is created.

Invoice Status

When an Invoice is first logged in the system it has a status of Pending. A pending Invoice can be edited. However, when an Invoice has been successfully delivered or processed, the Invoice Status moves to Active and it is no longer editable.

Status	
Invoice Status	Pending
Delivery Status	Undelivered Process
Payment Status	Pending Unpaid
Payment Date	
Shipping Date	01/07/16 12:39

An Invoice changes to a status of Cancelled when one of the following events occurs:

- Another Invoice is created to supersede the original Invoice; or
- The Invoice was created for a specific Incident and that Incident was deleted/cancelled either manually or due to the Incident Cancel Time, set by the system Administrator, being exceeded. See Setup>Billing within the Administrator Guide.

Editing an Invoice

To amend Invoice details or to include additional Line Items, edit or enter the information prior to selecting the Process hyperlink. This link is not available when the Invoice is in Edit mode, as all Invoice information must be locked down to ensure the application has control of the details of the Items and their delivery.

6.15.5 Invoice Payment & Delivery

Relative to the workings of your support organization, Item and/or Support Contract Invoices may or may not need to be paid before an Item can be delivered to your Customer or Support Contract used by your Customer.

To update the Shipping Date, open the Invoice in Edit mode when the Delivery Status is Undelivered and enter the relevant date within the Shipping Date field.

Processing an Invoice when Payment is Required

For organizations where the option of Payment Required is enabled by the Administrator, a User with Finance access is the only User who can update the Payment Status of an Invoice. To update the Payment Status, the Finance User selects the Payment Received hyperlink of an Invoice to change the status to Paid. Once payment has been made, any other User, such as a Supervisor, can process the Invoice.

Status	
Invoice Status	Pending
Delivery Status	Undelivered Process
Payment Status	Pending Unpaid Payment Received
Payment Date	

Processing an Invoice when Payment is not Required

If the Payment Required option has not been enabled by the system Administrator, a Line Item can be activated in the support system by selecting the Delivery Status Process hyperlink. This means that Customer payment does not need to be received by the organization before the Customer Item is delivered or a support contract is activated in the system.

When the Process hyperlink is clicked, the Invoice Status is updated to Active, and the Delivery Status changes to Delivered. (If the invoice is related to a support contract, the request status is moved from Pending - No Contract to the Workflow default open State, such as Pending.)

Status		
Invoice Status	Active	
Delivery Status	Delivered	
Payment Status	Pending Unpaid	Payment Received
Payment Date		
Shipping Date	07/29/10 14:01	

6.15.6 Service Level Agreements (SLAs)



Service Level Agreements (SLAs) are used by organizations to manage the levels of service expected of the IT and to ensure optimal maintenance of critical business systems and services. SLAs are documents that are negotiated between the Service Provider and Customer departments, to identify expectations and clarify responsibilities.

This tab is used to create and modify Service Level Agreements that provide request management capabilities.

SLAs include the following elements:

- Name
- Service Level Manager
- Priority Targets

- Automated Alert Notifications
- Pricing (if enabled in Admin>Setup>Billing)
- Blackout Periods
- Workflows

Details

Creating a Service Level Agreement

To create a new Service Level Agreement:

- 1. Select Service >SLAs
- 2. Click New

The screen defaults to the Details tab of the SLA Editor screen.

SLA Editor			
Details	Targets Blackouts	Workflows	
Details		Internal Costs	
Name		Annual Cost	0.00
On Breach	cc Team Leader	Request Cost	0.00
Pause on Holiday		Hourly Cost	0.00
Customer Timezone		Customer Prices	
Timezone	(GMT +5:30) New Delhi	Annual Price	0.00
Requirements		Request Price	0.00
Availability	97.0 % Uptime	Hourly Price	0.00
Interval Measured in	Days		
SLM			
Name		Find Service Level Ma First Name	Email
Email		That Name	Lindi
		Last Name	Phone
			0
			Cancel Next

- 3. Complete the fields, including any custom fields, as required:
- 4.

SLA Editor	
Details	
Name*	The name to identify the SLA.

SLA Editor	
Review Date	Details are completed based on the Admin default settings but can be edited by the User. An Alert is sent based on the default days set in the Review SLA Alert field in Admin>Setup>Privileges>Requests.
On Breach	Notification can be set to Carbon Copy (CC) an email to the Team Leader when the Warning or Escalation alert is sent to the Technician assigned to the request. It should be noted that the Service Level Manager is also notified when an SLA is breached.
Pause on Holiday	**This option is only displayed if the Observe Public Holidays option has been enabled within the Administrator>Setup>Privileges>User tab.
	Enable this option, if the SLA is to be adjusted on designated Public Holidays. The Public Holidays are defined within the Administrator>Setup>Public Holidays screen and associated with requests via the assigned Technician and their associated Country.
Customer Timezone	When enabled, SLA times displayed within the Technician request view uses the Customer timezone.
Timezone	This is visible when Customer Timezone is not set and all SLA dates are calculated based on the Timezone set within this field. This is especially applicable for User Work Hours, Blackouts, which also impacts the SLA Reports.
Requirements	
Availability*	Used to state the time an Item under the SLA is required to be online. The default value is set to 97%.
Interval Measured in	Defines the number of days over which the Availability requirement is calculated.
Priority	
Process Name	The field is displayed when Workflows have been assigned to the SLA.
	If multiple Workflows have been assigned for each Process, this field allows the User to assign a default Workflow for the SLA. When a request is created using the SLA, the default Workflow is assigned to the request.

SLM (Service Level Manager)

SLA Editor	
Name Email	Use the Find Service Level Manager search option, to enter the contact details of the Manager who will monitor the performance of the SLA.
	This is also the User who is assigned responsibility for managing the performance of external support providers when a request moves into a Workflow State that is supported by an Underpinning Contract.
Internal Cost ^	
Annual Cost ^	The SLA cost is calculated on the basis of what is costs the service organization to provide the service agreement, as applied on a yearly basis per User. The figure is associated with Items and used to calculate the cost of supplying a Service. This figure can be used as the basis for setting the Annual Price.
	The figure entered should be on a Annual Cost per User basis.
Request Cost ^	Indicates the cost applied on a Per Request basis. This figure can be used as a reference for setting the Incident Price.
Hourly Cost ^	Indicates the cost applied on an Hourly basis. This figure can be used as a reference for setting the Hourly Price.
Customer Pricing ^	
Annual Price ^	This is the charge applied to the SLA on a yearly basis and paid by the customer consuming the Service associated with the SLA. (It should be greater than the SLA Cost, as it would include the cost of servicing the SLA plus a profit margin, if relevant.) The figure is associated with Items and used to calculate the price paid by the customer for consuming a Service.
	The figure entered should be on a Annual Price per User basis.
Request Price ^	Indicates the price paid by the customer when the SLA is applied on a Per Request basis.
Hourly Price ^	Indicates the price paid by the customer when the SLA is applied on an Hourly basis.

* Denotes a mandatory field

^ Only applicable when SLA Prices are enabled in Setup>Billing

Targets

The Targets tab is used to configure the SLA's priority Response, Restoration and Resolution Times.

To modify a Priority:

- 1. Select Service > SLAs
- 2. Select an SLA
- 3. Select the Targets tab to display the following fields:
- 4.

SLA Editor	
Targets	
Targets	<i>Common</i> : Select Common if the SLA is to apply across Incidents, Requests, Problems and Change Management.
	<i>Per Process</i> : If the SLA is specific to a Process, select Per Process and choose a Process displayed in the drop-down list.
Interval	Define if the time is to be calculated in Hours or Minutes.
Service Time	
Priority	Urgent, High, Medium and Low.
Milestones	
Initial Response	The maximum time the Customer would wait from the point of request creation before receiving a Note update for a Technician. The Response trigger is stopped when a Note has been added to the request by the assigned Technician and an email is sent to the Customer. If the Response Time is reached, without a Note being added, the request will be escalated.
Restoration Time	The maximum time the Customer would wait from the time the request was created until a workaround or temporary fix has been implemented. The Restoration trigger stops by assigning the request a Workflow State that has to the SLA Restoration option set to Yes. By default, this Workflow State is Open - Restored.
Resolution Time	The taken time from the point of request creation until it the request is moved to a Workflow State with the SLA Resolution option set to Yes. Any of the default Workflow Exit States stop the Resolution Timer.
Notify Override	If the system is to override the default notification method set for a request when the Priority being edited is assigned to a request, check this option.

SLA Editor	
Notification Type	Set Email or SMS as the type of notification when the override action is applied to a Priority.
Alerts	
Reminder	Sends a reminder email to the Technician when the defined percentage of time elapses for a Response, Restoration or Resolution target that has not been met on a request. Can be set up to 200% of the SLA. Note, Alert intervals are not cumulative.
Warning	Sends a warning email to the Technician when the defined percentage of time elapses for a Response, Restoration or Resolution target that has not been met on a request. Can be set up to 200% of the SLA.
Escalation	Escalates the request to a higher escalation layer when the defined percentage of time elapses for a Response, Restoration or Resolution target that has not been met on a request. Can be set up to 200% of the SLA. It should be noted that the Service Level Manager is also notified when an SLA is breached.
Support	
24 x 7	Do not amend if the SLA is to apply 24 hours a day, 7 days a week.
Normal Support	Select if service hours are to be defined for the SLA. When checked, define the service hours by either selecting a template (Templates are configured by the Administrator in the Setup>Localization>Hours tab) or manually define the days and time by making selections within the drop-down lists.

5. Click Edit, if not already in Edit mode

Detail	s Ta	argets B	lackouts	Workflows				
Details								
Targets	Common Common	Per Process						
Interval	🖲 Hours 🔘 N	linutes						
Service Time	Priority	Response Time	Restoration Time	Resolution Time	24 x 7 support	Alert		
	Urgent	6 Hours	12 Hours	24 Hours	Yes	None		
	High	12 Hours	24 Hours	48 Hours	Yes	None		
	Medium	18 Hours	36 Hours	72 Hours	Yes	None		
	Low	24 Hours	48 Hours	96 Hours	Yes	None		

6. Define if the SLA applies across all Processes or to a specific Process

- 7. Define if the SLA is to be calculated in minutes or hours
- 8. Select the Priority link to customize Milestones, Alerts and Support hours

SLA Editor	
Details	Targets Blackouts Workflows
Criticality	Support @ 24 x 7 O Normal Support
Priority	High
Milestones	
Initial Response	12 Hours
Restoration Time	24 Hours
Resolution Time	48 Hours
Notify Override	
Notification Type	None 👻
Alerts	
	 Warning @ 9 Reminder Warning Escalation Cancel Save

9. Modify the Milestone intervals for the Response Time, Restoration Time and Resolution Time, as required

NOTE: The time will be set in minutes or hours, as defined for the SLA.

Milestone intervals are not cumulative

For example, for the default Warranty SLA, the Priority of Urgent has the default Milestone times of 6, 12 and 24 hours. This means a User has 6 hours to send a response to a Customer before the Response time is breached, 12 hours from the point of request creation to meet the Restoration time, and 24 hours from the point of request creation to meet the Resolution time. It should be noted that requests may be moved to non-SLA timed States during these Milestone periods, so the 12 or 24 hours may not be consecutive hours.

10. Check the Notify Override option, if relevant

Set the type of notification, email or SMS, that is to be used to contact the User assigned to the request with this Priority.

11. Create one or multiple Reminder, Warning or Escalation Alerts, if relevant

NOTE: Enter the percentage of time to elapse for an Alert to be triggered for a Milestone. Selecting Warning as the Alert will cause a warning e-mail to be sent to the request's Technician when the specified percentage of a milestone has been reached.

Selecting Escalation will trigger a request escalation to the next support layer of the Team. The escalation system will also fire if the SLA threshold is breached.

It is recommended that reminders be sent at 50% of elapsed time and escalations at 75-80%

These figures are advisory only. The internal processes of your organization will dictate the appropriate values. The Reminder percentage must be less than the Warning or Escalation percentages.

Alerts can be set to 200% of the SLA time, which ensures notifications can be still be received against breached requests

If Alerts are not customized, the application will automatically escalate the request when the Priority milestone is breached

- 12. Click Save
- 13. Modify other Priorities as necessary.

Configuring Support Hours

After the Priority times and Alerts of an SLA have been configured, Support Hours can be defined. These can be set to 24 hours by 7 days a week (24 X 7), or manually adjusted to reflect the support operation open hours.

Under 24 X 7 mode, if the SLA's urgent Initial Response field is set to six hours, and an urgent request that uses the SLA is created at midnight in the assigned Technician's time zone, those six hours will expire by 6:00 AM. This is the option to use if a support operation is staffed 24 hours a day.

If a support operation is not open 24 hours a day, the request timers are not required to run when Technicians are not available. For instance, if the support hours are 9:00 AM to 5:00 PM and the SLA hours reflect this, the SLA timers of the urgent request created at midnight would not start ticking until 9:00 AM the following business day and would expire at 3:00 PM.

To define the SLA support hours:

- 1. Select Service > SLAs
- 2. Select an SLA
- 3. Click the Priority link

This will display the Details tab with Support Hours options of 24x7 and Normal

4. The default setting is 24 X 7, to amend the support hours select the Normal Support option

SLA Editor							
Details	Targets	Blackouts	Workflows				
Criticality				Support	© 24 x 7	Normal Supp	ort
Priority	-			Hours			
Milestones				Apply Template		-	
Initial Response		Hours		Weekdays	Weekdays 8 t	to E	
Restoration Time	24	Hours		Sunday	Weekdays 8 t		> •
Resolution Time	48	Hours		Mandau	00.00	17:00	
Notify Override				Monday	08:00	to 17:00	•
Notification Type	None]		Tuesday	• 00:80	to 17:00	•
Alerts	•			Wednesday	08:00 -	to 17:00	•
				Thursday	08:00 🔻	to 17:00	•
				Friday	08:00 🔻	to 17:00	•
				Saturday	<closed></closed>	to <closed< th=""><th>> •</th></closed<>	> •
						Cancel	Save

5. Select a template from the Apply Template drop-down options or customize Weekdays manually.

Note that the SLA timers become inactive when the support desk is closed.

6. Click Save.

Blackouts

Blackouts are used as part of Change and Configuration Management to advise Users about the appropriate periods of time that an Item associated with an SLA should be scheduled to be taken offline if an Outage is needed. Within the system, when an Outage is being scheduled (Item>Details>Outages) the Blackout period is displayed, informing the User of the best time to schedule a Planned Outage.

A Blackout Period is based on an agreement between the Customer and the Service Desk regarding set times that the Customer has no service expectations. This can also be the preferred time for Item upgrades and maintenance as they will not affect service availability.

A Blackout Period is specified within an SLA. During this time the SLA is viewed as inactive and its measuring time is stopped. OLAs that underpin a Workflow State that apply an SLA with a Blackout Period, also adopt the Blackout Period.

Specifying an SLA Blackout

To specify an SLA Blackout:

- 1. Select Service >SLAs
- 2. Click an SLA hyperlink
- 3. Click Edit
- 4. Move to the Blackouts tab
- 5. Tick the Windows option

SLA Editor						
Details	5	Targets	Blackouts	Work	flows	
Blackouts						
Windows	1					
Interval		•				
Day						
	⊠	Day	Start Time	End Time	Interval	
			0 - 0 of 0 R	esults		
		Remove				
					Cancel	Next

- 6. Set the Interval of weekly or monthly
- 7. Apply a Template or define the day and time period for the approved Blackout manually, then click 🕒
- 8. Define the preferred Timezone

This is required information to save the Blackout information.

SLA Editor					
Details	5 Targets	Blackouts	Workflow	rs	
Blackouts					
Windows	\checkmark				
Interval	Weekly 💌				
Apply Template	-				
Day	Sun 💌 from	<undefined></undefined>	to <undefined></undefined>	- 0	
	🖾 Day	Start Time	End Time	Interval	
	Fri Fri	08:00	17:00	Weekly	
	Thu Thu	08:00	17:00	Weekly	
	Wed	08:00	17:00	Weekly	
		1 - 3 of 3 Re	sults		
	Remove				
				Cancel	Next

9. Click Save.

See: Item Planned Outages using Blackout Periods

To remove time-frames from the Blackout Period:

- 1. Select Service >SLAs
- 2. Click an SLA hyperlink
- 3. Click Edit
- 4. Move to the Blackouts tab
- 5. Check the box next to the Day to be deleted from the Blackout

🖾 Day	Start Time	End Time	Interval
Fri	08:00	17:00	Weekly
📝 Thu	08:00	17:00	Weekly
Ved Wed	08:00	17:00	Weekly
	1 - 3 of 3	Results	
Remove			

6. Click Remove.

Workflows

Workflows are associated with an SLA through the Workflows tab of the SLA Editor screen or within the Workflow itself. All SLAs assigned to the SLA are listed within this tab and Workflows can be added or removed within this tab, as required.

Assigning a Workflow

To assign a Workflow:

- 1. Select Service>SLAs
- 2. Click the relevant SLA link
- 3. Move to the Workflows tab
- 4. Click Edit
- 5. Select Add

The Available Workflow drop-down list will be displayed.

SLA Editor		
Details Tar	rgets Blackouts	Workflows
Available Workflows		Cancel Save
	hange Workflow	escription
Problem V	Norkflow	onfigurable Standard Change Management workflow
	- 1 of 1 cy Change Workflow	I Results
Change D	Deployment Workflow	

- 6. Select a Workflow
- 7. Click Save.

To remove a Workflow assignment, use the checkbox next to the relevant Workflow and click the Remove button.

Default Warranty SLA

The system includes a default SLA that does not include costs, called Warranty. The Warranty SLA can be used or edited as required.

Integration with Request Creation and the Billing System

The prices specified in the SLA provide the basis for fees charged for support on both a Per Request basis and on a subscription basis. The hourly rate is included for reporting purposes. Rather than an Item using an SLA, Items can be covered by maintenance contracts. A contract can cover a particular request, or exist as a subscription.

Maintenance Contracts form part of the request creation process. Requests can be entered into the system without a valid contract, but are flagged as unpaid, and are unable to be worked on until the invoice is processed. There is also a control (configured in the Billing Preferences) for the length of time an unpaid request can exist in the system.

See: Assigning an SLA to a Customer

See: Assigning an SLA to an Organizational Unit when Contracts are Disabled

Assigning a Default Workflow to an SLA

If more than one process Workflow is assigned to an SLA, it is required to select a default Workflow. This default Workflow will be the Workflow assigned to a request when the SLA assigned supports more than one Workflow.

To assign a Default Workflow:

- 1. Select an SLA from the Service > SLA tab
- 2. Click Edit

Note that the system automatically assigns a default Workflow to an SLA, as Workflows are being assigned.

3. Within the Priority Field, use the drop-down lists to update the relevant Incident, Problem, Change and Service Request default Workflows

Priority		
Request	Service Request Workflow	
Change	Standard Change Workflow	•
SLM	Emergency Change Workflow Standard Change Workflow	

4. Click Save to apply the change.

6.15.7 Outages

An Outage is when an Item Status is unavailable due to expected or unexpected events. For example, the Item may be out for repair or faulty. To move an Item into an unavailable State, and therefore list it as inactive, the Item Status selected for the Active State option within the Item Category Lifecycle must be set to No, and the Offline State option set to Yes.

Planned Outages

Planned Outages are used to manage Items' proposed unavailability. This is useful for informing Customers and Users about planned changes to infrastructure that may cause an Item to be taken offline or out of service.

If an Item has an SLA with a specified Blackout Period, ideally Outages should be planned to fall within this time. The Blackout Period is an agreement between the Customer and the service provider regarding a period of time when the Customer has no service expectations. This can also be the preferred time for Item upgrades and maintenance without affecting service availability. To access the Blackout Period details for an SLA associated with an Item, create the Planned Outage within the Outages tab of the Item Information screen.

Viewing Outages

Planned Outages can be viewed from the Login Page and the Customer Portal, if the Administrator has toggled the Setup>Privileges>System Outages Page option to Yes. This enables the Planned and Unplanned Outage links in the Customer Portal and Login Page.

Customer Portal View

In the Customer Portal the Planned Outages information is accessible in the side bar menu of the Items and Services tab.

Plann	Planned Outages				
No.	Start Date	🛓 End Date	≣ Items	Reason	
2	01/08/16 02:05	01/09/16 00:00	1000010 (Iphone 6)	Maintenance	
	Click to view details		1 - 1 of 1 Results		

To view the Outage details, click the Outage No. link. To close the window, click Done.

No.	2	Reason Maintenance	
Start Date 01/08/16 02:05 End Date 01/09/16 00:00			
Items			
Item Number	🛓 Туре	Category	

Login Page View

Planned Outage information can also be accessed from the Login page, Click the View Outages link to display a complete list of current outages. Select the View Planned Outages link to access planned downtime details.



Planne	Planned Outages				
No.	E Start Date	🛓 End Date	■ Items	Reason	
2	01/08/16 02:05	01/09/16 00:00	1000010 (Iphone 6)	Maintenance	
	 Click to view detail 	S	1 - 1 of 1 Results		

Planned Outage Page Options

• Search for Outages based on the Item Type

This functionality is enabled by the Administrator in Setup>Privileges>System Search Outages.

 Within the Outage Details window, click on the Item Number link to show the Item Relationship Map

To enable this feature, the Show Affected Relationships option must be activated by the Administrator in Setup>Privileges>System Outages.

• To return to the Planned Outage list, click the Done.

6.15.8 Purchase Orders

Purchase Orders can simplify the tracking of where and when new Items are purchased or leased. This feature is not meant to replace an organization's original PO system, it is designed to easily link a specific PO number (and its associated vendor and date information) with an Item.

Enabling Purchase Orders

To enable Purchase Orders:

- 1. Select Setup>Billing
- 2. Set the option Enable Purchase Orders to Yes

Billing	
Setup	Contracts
Billing Module	
Enable Purchase Orders	Yes No
Enable Contracts	Yes No
Enable Invoices	Yes No
Display SLA Prices	Yes No
Tax Rate (Percentage)	
Email Notifications	Enabled Disabled
Purchase Order Company Details	
Details	
	h.
Global Settings	
Currency	United States Dollar
	Save

3. Set the default tax rate

The percentage amount entered here is applied by default to all POs.

- 4. Enter the Company Details to be used on the PO
- 5. In Global Settings, select the preferred currency
- 6. Click Save.

NOTE: A logo can be applied to system generated POs by adding the graphic within the Setup>Customize tab. (This option is only displayed when the Purchase Orders functionality is enabled within the Setup>Billing tab.)

The Purchase Order sub-menu option is made available within the Finance tab for Finance, Supervisor and Technician Users, when enabled.

6.15.9 Contracts

A Contract is made up of a Service Level Agreement (SLA) and a Service Delivery Period (start and end time). They can be used to manage an entitlement to service from a start date, through to an end date.

Contracts and Invoices are used together when the Service Desk needs to charge its Customers for any support provided. Billing within the system is on a per Contract basis, and is enabled automatically when Invoices are activated.

Contracts can be created for different elements to suit organizational needs. Contracts can cover the individual elements:

- Items
- Customers
- Organizational Units
- Requests

Pending Contracts are contracts that have a start date set in the future. They automatically become active on the contract start date or can be enabled manually.

Enabling Contracts

To enable a Contract:

- 1. Select Setup>Billing
- 2. Click Yes to enable Contracts

A Contracts tab will be visible.

Billing	
Setup	Contracts
Billing Module	
Enable Purchase Orders	Yes No
Enable Contracts	Yes No
Enable Invoices	Yes No
Display SLA Prices	Yes No
Email Notifications	Enabled Disabled
Global Settings	
Currency	United States Dollar
	Save

3. Define the Email Notifications option for Finance Users

When enabled, automated emails are sent to Finance Users regarding matters relating to POs, Invoices and/or Contracts.

4. Set the Currency for all financial transactions managed by the system

5. Move to the Contracts tab to define parameters for

Billing	
Setup Co	ontracts
Subscription	
Contract Renewal Time	20 days
Default Contract Duration	12 months
Time	
Low Time Alert	Yes No
Threshold	% Elapsed
Low Time Email	Yes No
Threshold	% Elapsed
Expiration	
Time Expired	Complete Request Purchase Time
Overtime	Rollover Ignore
racts	Save

6.

Options	Description		
Subscription			
Contract Renewal Time	The system can automatically send a Contract Renewal Invoice before a contract expires. Enter the number of days prior to the contract expiration date for the system to send the renewal invoice.		
	For Contracts not to be automatically created, leave this field blank.		
	(The information for the invoice can be configured in the InvoiceSummary link within the Setup>Email>Templates>Email Summary Templates filter screen. This template is sent with the InvoicePrefix email that can be edited in Setup>Email>Templates>Full Email Templates list.)		
Default Contract Duration	The system sets the default contract renewal period to 12 months, adjust or delete the entry as required.		
Time			
Low Time Alert	The system can automatically create an alert within the Customer Portal for customers that have Time-based contracts (i.e., purchased a quantity of support hours.) The Alert can be sent based on the percentage of hours that have been used.		

Options	Description
Low Time Email	The system can automatically send an email to a Customer that is getting close to using all their support hours in their Time-based contracts. The Email can be sent based on the percentage of hours that have been used.
	The Email content is set in the ContractTimeLow option of Setup>Email>Templates.
Expiration	
Time Expired	When a Customer's contract is expired when a User is working on a request, this option specifies if the User can Complete the request although the Contract has expired and if the system will lock out the User until the Customer has purchased additional time.
	When Complete Request is selected, the following options are displayed:
	 Rollover - means the time used to resolve the issue will be subtracted from the Customer's renewed contract.
	 Ignore - means the time used to resolve the issue, although the Customer contract has expired, is not allocated to a future contract.
	(The subject line and content for the automated emails sent on contract expiration is configured in the ContractTimeElapsed and ContractTimeElapsed of Setup>Email>Templates.)

7. Enter the Contract Renewal Time, if required

For contracts not to be automatically created, leave this field blank.

- 8. Set Notifications and Thresholds
- 9. Set Time Expired option

Expiration			
Time Expired	Complete	Request	Purchase Time
Overtime	Rollover	Ignore)

10. Click Save.

6.15.10 Invoices

Invoices are used for the billing of Contracts and can also be used for Purchase Orders. When Invoices are enabled, Contracts are enabled automatically. Invoices can be used to maintain the purchasing of Items as well as Contracts for these and existing Items.

Enabling Contracts and Invoices

When an Invoice is created, a Contract is automatically generated.

To enable Invoices:

- 1. Select Setup>Billing
- 2. Click Yes to enable Invoices

When an Invoice is enabled, the following options become

Billing	
Setup	Contracts
Billing Module	
Enable Purchase Orders	Yes No
Enable Contracts	Yes No
Enable Invoices	Yes No
Payment Required	Yes No
Display SLA Prices	Yes No
Tax Rate (Percentage)	
Request Warning Time	hours
Request Cancel Time	hours
Invoice Warning Time	days
Default Invoice Due	days
Email Notifications	Enabled Disabled
Terms and Conditions	
Durkey O. L. O	łı.
Purchase Order Company Details	
Global Settings	h.
Currency	United States Dollar
	Save

3.

Options	Description
Contracts	Contracts are enabled automatically when Invoices are activated.

Options	Description
Payment Required	Setting Payment Required to Yes will require line items on invoices to be paid before they become active in the system. Any incidents logged against an unpaid Contract or Item cannot be worked on until payment is received.
	NOTE: Note: Invoice payments can only be processed by a Finance User.
Tax Rate (Percentage)	The rate used to calculate tax on an invoice subtotal.
Request Warning Time	Where a Contract has not been paid and requests have been raised, a reminder email can be sent stating that payment is due. Use this field to specify the length of time in hours from the opening of the incident before sending a reminder email.
Request Cancel Time	Specifies a waiting time for requests with a Status of Pending-Unpaid before they are cancelled.
Invoice Warning Time	Enter the number of days prior to the due date to send the Customer a reminder email regarding non-payment of an invoice.
Contract Renewal Time	The system can automatically send a Contract Renewal Invoice before the end of a contract. Enter the number of days prior to the contract expiry to send the renewal invoice.
Default Invoice Due*	Enter the number of days to calculate an invoice due date.
Email Notifications	Enables the system to update Finance Users, via automated emails, regarding matters relating to POs, Invoices and/or Contracts.
Terms and Conditions	Free text entered in this field is included in the invoice emailed to the Customer.
Purchase Order Company Details	This option is displayed if the Purchase Orders option is also enabled.
	Enter the Company details to be displayed on Purchase Orders.
Currency	Select the currency for all financial transactions within the system.

*Denotes mandatory field.

- 1. Enable the Payment Required and Email Notification options, if necessary
- 2. Complete all the necessary fields

- 3. Select preferred currency
- 4. Click Save.

6.16 AMIE

The Asset Management Import Engine (AMIE) integrates with the following Inventory Management Products:

- Absolute Manage 6.0
- Centennial Discovery 2005, 9
- Express Software Manager 9.0, 9.5
- + HP Universal CMDB 8.0
- LANDesk 8.5, 9.0, 9.0 (Hardware)
- LANrev 5.1
- LiveTime Discovery 2005, 2007
- LOGINventory 4.3
- Manage Engine Desktop Central 7.0
- Microsoft SMS Version 2003 SP1
- Microsoft SCCM 2007
- Spiceworks 4.0, 5.0
- ZENworks Asset Management 6.5+
- ZENworks Configuration Management 11.1, 11.1 (Hardware)

This section includes the following:

- Section 6.16.1, "AMIE Mappings for Servers," on page 608
- Section 6.16.2, "AMIE Customized Mapping," on page 624
- Section 6.16.3, "Managing Items using Database Mapping (AMIE)," on page 640
- Section 6.16.4, "Importing Items using a .CSV File," on page 647
- Section 6.16.5, "Downloading an Item .CSV Template," on page 655
- Section 6.16.6, "Financial Management," on page 663
- Section 6.16.7, "Service Portfolio Management," on page 664
- Section 6.16.8, "Financial Management Applied," on page 669

6.16.1 AMIE Mappings for Servers

The default AMIE mappings for each server type are as follows:

Absolute Manage 6.0

ITEM CATEGORY	Hardware
FIELD1 = "CPU"	
FIELD	"field1"
VALUE	"computer.PROPCPUSPEED"
VALUE_PREFIX	
VALUE_SUFFIX	"Mhz"
FIELD2 = "RAM"	
FIELD	"field2"
VALUE	"computer.PROPPHYSICALMEMORYSIZE"
VALUE_PREFIX	
VALUE_SUFFIX	"В"
FIELD3 = "MAC Address"	
FIELD	"field3"
VALUE	"computer.PROPPRIMARYMACADDRESS"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD4 = "Network Address"	
FIELD	"field4"
VALUE	"network.PROPIPADDRESS"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD5 = "Network Name"	
FIELD	"field5"
VALUE	"network.PROPWINHOST"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD10 = "Serial Number"	
FIELD	"field10"
VALUE	"computer.PROPMACHINESERIALNO"
VALUE_PREFIX	
VALUE_SUFFIX	mn (Comparison of Comparison o

Centennial Version 2005 & 9

Item Category	Hardware
FIELD1 = "CPU"	
FIELD	"field1"
VALUE	"Hardware.size"
VALUE_PREFIX	
VALUE_SUFFIX	"MHz"
FIELD2 = "RAM"	
FIELD	"field2"
VALUE	"Hardware.size"
VALUE_PREFIX	
VALUE_SUFFIX	"КВ"
FIELD3 = "MAC Address"	
FIELD	"field3"
VALUE	"Client.macAddr1"
VALUE_PREFIX ""	
VALUE_SUFFIX	
FIELD4 = "Network Address"	
FIELD	"field4"
VALUE	"Client.ipaddr1"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD5 = "Network Name"	
FIELD	"field5"
VALUE	"Client.sysMachine"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD6 = "Platform"	
FIELD	"field6"
VALUE	"Windows"
VALUE_PREFIX	
VALUE_SUFFIX	

Item Category	Hardware
FIELD10 = "Serial Number"	
FIELD	"field10"
VALUE	"Hardware.driver"
VALUE_PREFIX	
VALUE_SUFFIX	
Item Category	Software
FIELD3 = "Version"	
FIELD	"field3"
VALUE	"Products.versionName"
VALUE_PREFIX	
VALUE_SUFFIX	111

Express Software Manager 9.0 & 9.5

Item Category	Hardware
FIELD1 = "CPU"	
FIELD	"field1"
VALUE	"machinehardware.c_processor"
VALUE_PREFIX	
VALUE_SUFFIX	"Mhz"
FIELD2 = "RAM"	
FIELD	"field2"
VALUE	"machinehardware.c_ram"
VALUE_PREFIX	
VALUE_SUFFIX	"В"
FIELD3 = "MAC Address"	
FIELD	"field3"
VALUE	"machine.nicaddress"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD4 = "Network Address"	
FIELD	"field4"

Item Category	Hardware
VALUE	"machine.ipaddress"
VALUE_PREFIX	
VALUE_SUFFIX	un
FIELD5 = "Network Name"	
FIELD	"field5"
VALUE	"machine.name"
VALUE_PREFIX	un
VALUE_SUFFIX	nn
FIELD10 = "Serial Number"	
FIELD	"field10"
VALUE	"machinehardware.machineserialnumber"
VALUE_PREFIX	
VALUE_SUFFIX	

HP Universal CMDB 8.0

Item Category	Hardware
FIELD2 = "RAM"	
FIELD	"field2"
VALUE	"CDM_NT_1.A_NT_PHYSICAL_MEMORY"
VALUE_PREFIX	"B"
VALUE_SUFFIX	
FIELD5 = "Network Name"	
FIELD	"field5"
VALUE	"CDM_HOST_1.A_HOST_HOSTNAME"
VALUE_PREFIX	nn
VALUE_SUFFIX	
Item Category	Software
FIELD1 = "Path"	
FIELD	"field1"
VALUE	"CDM_APPLICATION_1.A_APPLICATION_PATH"
VALUE_PREFIX	

Item Category	Hardware
VALUE_SUFFIX	"MHz"
FIELD3 = "Version"	
FIELD	"field3"
VALUE	"CDM_APPLICATION_1.A_APPLICATION_VERSION_N UMBER"
VALUE_PREFIX	m
VALUE_SUFFIX	1111

LANDesk 8.5

ITEM CATEGORY	Hardware
FIELD1 = "CPU"	
FIELD	"field1"
VALUE	"Processor.mhzSpeed"
VALUE_PREFIX	
VALUE_SUFFIX	"MHz"
FIELD2 = "RAM"	
FIELD	"field2"
VALUE	"Memory.bytesTotal"
VALUE_PREFIX	
VALUE_SUFFIX	"B"
FIELD3 = "MAC Address"	
FIELD	"field3"
VALUE	"NetworkSoftware.nicAddress"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD4 = "Network Address"	
FIELD	"field4"
VALUE	"TCP.address"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD5 = "Network Name"	

ITEM CATEGORY	Hardware
FIELD	"field5"
VALUE	"Computer.deviceName"
VALUE_PREFIX	
VALUE_SUFFIX	ни
FIELD6 = "Platform"	
FIELD	"field6"
VALUE	"Windows"
VALUE_PREFIX	00
VALUE_SUFFIX	1 11
FIELD10 = "Serial Number"	
FIELD	"field10"
VALUE	"Computer.compSystem.serialNum"
VALUE_PREFIX	00
VALUE_SUFFIX	111
ITEM CATEGORY	Software
FIELD1 = "Path"	
FIELD	"field1"
VALUE	"software.path"
VALUE_PREFIX	00
VALUE_SUFFIX	mi
FIELD3 = "Version"	
FIELD	"field3"
VALUE	"FileInfo.version"
VALUE_PREFIX	m
VALUE_SUFFIX	

LANrev 5.1

ITEM CATEGORY	Hardware
FIELD1 = "CPU"	
FIELD	"field1"
VALUE	"hardware_info.CPUSpeed"

ITEM CATEGORY	Hardware
VALUE_PREFIX	
VALUE_SUFFIX	"Mhz"
FIELD2 = "RAM"	
FIELD	"field2"
VALUE	"hardware_info.PhysicalMemorySize"
VALUE_PREFIX	
VALUE_SUFFIX	"B"
FIELD3 = "MAC Address"	
FIELD	"field3"
VALUE	"hardware_info.PrimaryMACAddress"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD4 = "Network Address"	
FIELD	"field4"
VALUE	"network_adapter_info.IPAddress"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD5 = "Network Name"	
FIELD	"field5"
VALUE	"network_adapter_info.WinHost"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD10 = "Serial Number"	
FIELD	"field10"
VALUE	"hardware_info.MachineSerialno"
VALUE_PREFIX	
VALUE_SUFFIX	

LOGINventory 4.3+

ITEM CATEGORY	Hardware
FIELD1 = "CPU"	

ITEM CATEGORY	Hardware
FIELD	"field1"
VALUE	"LI_CUP.LI_NAME"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD2 = "RAM"	
FIELD	"field2"
VALUE	"LI_SYSTEM.LI_PCMEMORY"
VALUE_PREFIX	
VALUE_SUFFIX	"МВ"
FIELD3 = "MAC Address"	
FIELD	"field3"
VALUE	"LI_NET.LI_MACADDRESS"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD4 = "Network Address"	
FIELD	"field4"
VALUE	"LI_NET.LI_IPADDRESS"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD5 = "Network Name"	
FIELD	"field5"
VALUE	"LI_PCINFO.LI_PCNAME"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD10 = "Serial Number"	
FIELD	"field10"
VALUE	"LI_SYSTEM.LI_SERIAL"
VALUE_PREFIX	Ш
VALUE_SUFFIX	
Item Category	Software
FIELD3 = "Version"	
FIELD	"field3"

ITEM CATEGORY	Hardware
VALUE	"LI_SOFTWARE.LI_VERSION"
VALUE_PREFIX	
VALUE_SUFFIX	

Manage Engine Desktop Central 7.0

Item Category	Hardware
FIELD2 = "RAM"	
FIELD	"field2"
VALUE	"invcomputer.TOTAL_RAM_MEMORY_MB"
VALUE_PREFIX	"MB"
VALUE_SUFFIX	
FIELD3 = "MAC Address"	
FIELD	"field3"
VALUE	"resourcemacip.MAC_ADDRESS"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD4 = "Network Address"	
FIELD	"field4"
VALUE	"resourcemacip.IP_ADDRESS"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD10 = "Serial Number"	
FIELD	"field10"
VALUE	"invcomputeros.SERIAL_NUMBER"
VALUE_PREFIX	
VALUE_SUFFIX	
Item Category	Software
FIELD3 = "Version"	
FIELD	"field3"
VALUE	"invsw.SOFTWARE_VERSION"
VALUE_PREFIX	

Item Category

Hardware

VALUE_SUFFIX

....

Microsoft SMS 2003 SP1 and Microsoft SCCM 2007

Item Category	Hardware
FIELD1 = "CPU"	
FIELD	"field1"
VALUE	"Processor_DATA.currentClockSpeed0"
VALUE_PREFIX	
VALUE_SUFFIX	"MHz"
FIELD2 = "RAM"	
FIELD	"field2"
VALUE	"PC_Memory_DATA.totalPhysicalMemory0"
VALUE_PREFIX	
VALUE_SUFFIX	"B"
FIELD3 = "MAC Address"	
FIELD	"field3"
VALUE	"Network_DATA.macaddress0"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD4 = "Network Address"	
FIELD	"field4"
VALUE	"Network_DATA.ipaddress0"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD5 = "Network Name"	
FIELD	"field5"
VALUE	"Computer_System_DATA.propName0"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD6 = "Platform"	
FIELD	"field6"

Item Category	Hardware
VALUE	"Windows"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD10 = "Serial Number"	
FIELD	"field10"
VALUE	
VALUE_PREFIX	
VALUE_SUFFIX	
ITEM CATEGORY	Software
FIELD3 = "Version"	
FIELD	"field3"
VALUE	"SoftwareProductMap.productVersion"
VALUE_PREFIX	
VALUE_SUFFIX	111

Spiceworks 4.0, 5.0

Item Category	Hardware
FIELD1 = "CPU"	
FIELD	"field1"
VALUE	"devices.processor_type"
VALUE_PREFIX	
VALUE_SUFFIX	
FIELD2 = "RAM"	
FIELD	"field2"
VALUE	"devices.memory"
VALUE_PREFIX	
VALUE_SUFFIX	"В"
FIELD3 = "MAC Address"	
FIELD	"field3"
VALUE	"devices.mac_address"
VALUE_PREFIX	1111

Item Category	Hardware	
VALUE_SUFFIX		
FIELD4 = "Network Address"		
FIELD	"field4"	
VALUE	"devices.ip_address"	
VALUE_PREFIX		
VALUE_SUFFIX		
FIELD5 = "Network Name"		
FIELD	"field5"	
VALUE	"devices.name"	
VALUE_PREFIX		
VALUE_SUFFIX		
FIELD10 = "Serial Number"		
FIELD	"field10"	
VALUE	"devices.serial_number"	
VALUE_PREFIX		
VALUE_SUFFIX		
Item Category	Printers & Scanners	
FIELD5 = "IP Address"		
FIELD	"field5"	
VALUE	"devices.ip_address"	
VALUE_PREFIX		
VALUE_SUFFIX		
FIELD6 = "Serial Number"		
FIELD	"field6"	
VALUE	"devices.serial_number"	
VALUE_PREFIX		
VALUE_SUFFIX		
Item Category	Network Infrastructure	
FIELD5 = "IP Address"		
FIELD	"field5"	
VALUE	"devices.ip_address"	
VALUE_PREFIX	10.1 1	

Item Category	Hardware	
VALUE_SUFFIX ""		
FIELD6 = "Serial Number"		
FIELD	"field6"	
VALUE	"devices.serial_number"	
VALUE_PREFIX		
VALUE_SUFFIX		
Item Category	Software	
FIELD3 = "Version"		
FIELD	"field3"	
VALUE	"software_installations.version"	
VALUE_PREFIX		
VALUE_SUFFIX		

ZENworks Asset Management 6.5+

Item Category	Hardware	
FIELD1 = "CPU"		
FIELD	"field1"	
VALUE	"NC_CPU.speed"	
VALUE_PREFIX		
VALUE_SUFFIX	"MHz"	
FIELD2 = "RAM"		
FIELD	"field2"	
VALUE	"NC_Workstation.totalMemory"	
VALUE_PREFIX		
VALUE_SUFFIX	"MB"	
FIELD3 = "MAC Address"		
FIELD	"field3"	
VALUE	"NC_Workstation.lanaddress"	
VALUE_PREFIX		
VALUE_SUFFIX		
FIELD4 = "Network Address"		

Item Category	Hardware	
FIELD	" field4"	
VALUE	" NC_Workstation.ipaddress"	
VALUE_PREFIX		
VALUE_SUFFIX		
FIELD5 = "Network Name"		
FIELD	" field5"	
VALUE	" NC_Workstation.machinename"	
VALUE_PREFIX		
VALUE_SUFFIX		
FIELD6 = "Platform"		
FIELD	"field6"	
VALUE	"Windows"	
VALUE_PREFIX		
VALUE_SUFFIX	nn.	
FIELD10 = "Serial Number"		
FIELD	"field10"	
VALUE	"NC_Workstation.serialNumber"	
VALUE_PREFIX		
VALUE_SUFFIX		
Item Category	Software	
Item Category	Software	
FIELD3 = "Version"		
FIELD	"field3"	
VALUE	"NC_Product.model"	
VALUE_PREFIX		
VALUE_SUFFIX		

Zenworks Configuration Management 11.1

Item Category	Hardware
FIELD1 = "CPU"	
FIELD	"field1"

Item Category	Hardware		
VALUE	"NC_CPU.speed"		
VALUE_PREFIX			
VALUE_SUFFIX	"MHz"		
FIELD2 = "RAM"			
FIELD	"field2"		
VALUE	"NC_Workstation.totalMemory"		
VALUE_PREFIX			
VALUE_SUFFIX	"MB"		
FIELD3 = "MAC Address"			
FIELD	"field3"		
VALUE	"NC_Workstation.lanaddress"		
VALUE_PREFIX			
VALUE_SUFFIX			
FIELD4 = "Network Address"			
FIELD	" field4"		
VALUE	" NC_Workstation.ipaddress"		
VALUE_PREFIX			
VALUE_SUFFIX			
FIELD5 = "Network Name"			
FIELD	" field5"		
VALUE	" NC_Workstation.machinename"		
VALUE_PREFIX			
VALUE_SUFFIX			
FIELD7 = "OS Version"			
FIELD	"field7"		
VALUE	" NC_Workstation.osmodel"		
VALUE_PREFIX	111		
VALUE_SUFFIX			
FIELD10 = "Serial Number"			
FIELD	"field10"		
VALUE	"NC_Workstation.serialnumber"		
VALUE_PREFIX	III		

Item Category	Hardware	
VALUE_SUFFIX		
Item Category	Software	
FIELD20 = "Platform String"		
FIELD	"field10"	
VALUE	"NC_Workstation.osproduct"	
VALUE_PREFIX		
VALUE_SUFFIX	Ш	
Item Category	Software	
Item Category	Software	
FIELD3 = "Version"		
FIELD	"field3"	
VALUE	"NC_Product.model"	
VALUE_PREFIX		
VALUE_SUFFIX		

6.16.2 AMIE Customized Mapping

The customized mapping functionality provides the Administrator with greater control over the Item Types and Categories information accessed during the Item import process. It allows the Administrator to customize queries by defining parameters for importing Items.

IMPORTANT: As a prerequisite the Administrator should have knowledge of HQL and schema of the source database.

Export Configuration

Prior to importing Items, to define the parameters of the Items to be imported, the Item parameters must be exported to a file. To export the parameters file:

- 1. Log in as an Administrator
- 2. Select Setup > Item Import > Customize

AMIE				
	Setup	Import	Customize	
	Mapping			
	Operation	Export Configuration		
	Server			
	Туре	Absolute Manage v6.0		•
				Export

- 3. From the Mapping Operation drop-down list, select Export Configuration
- 4. Select the Server Type for the configuration export
- 5. Click Export.

An .xml file is produced.

Customizing the XML File

To customize the Item import, the above exported configuration file will need to be modified. To modify the file:

- 1. In the text editor of your choice, open the XML file
- 2. Modify the properties as required.

The example below explains how the ZENworks Configuration Management 11.1+ (ZENworksCM_11.1.xml) configuration can be customized.

<IMPORT_DEFN> Element

The first line within the XML file displays the following fields:

```
<IMPORT_DEFN SERVER="ZENworks Configuration Management" VERSION="11.1+"
AUTHOR="Micro Focus">
```

They identify an entry for an Asset Management Server type. By modifying these fields, we can effectively create another configuration.

<IMPORT_DEFN SERVER="ZENworks Configuration Management" VERSION="11.1+" AUTHOR="Bob">

This newly configured name will be the Server Type listed as an option when setting up AMIE.

Attributes		
Name	Туре	Description
SERVER	String	Name of Asset Management Server
VERSION	String	Version of Asset Management Server
AUTHOR	String	Author of the XML

Child Elements			
Name	Occurrence	Description	
CONDITIONS	[01]		
ITEM	[1*]		
SCHEMA	[01]		

<CONDITIONS> Element

To support multiple versions of AMIE source with a single XML driver:

<CONDITIONS>

```
<QUERY NAME="versionQuery">SELECT zDevice FROM
com.livetime.assetimport.ZDEVICE zDevice WHERE zDevice.PROPAGENTVERSION =
(SELECT MAX(zDevice1.PROPAGENTVERSION) FROM
com.livetime.assetimport.ZDEVICE zDevice1) </QUERY>
```

```
<CONDITION NAME="version113" QUERYVALUE="versionQuery.PROPAGENTVERSION"
CONDVALUE="11.3" VALUETYPE="NUMERIC" COND="EGREATER" TYPE="LOOKUP" />
```

<CONDITION NAME="version112" QUERYVALUE="versionQuery.PROPAGENTVERSION" CONDVALUE="11.3" VALUETYPE="NUMERIC" COND="LESSER" TYPE="LOOKUP" />

</CONDITIONS>

Child Elements		
Name	Occurrence	Description
QUERY	[0*]	
CONDITION	[0*]	

<QUERY> Element

Define the 'Query' property to locate the table data.

For example, the query below will retrieve the ZENworks version data. The Query Name (versionQuery) is used to reference the property field as described later.

<QUERY NAME="versionQuery">SELECT zDevice FROM com.livetime.assetimport.ZDEVICE zDevice WHERE zDevice.PROPAGENTVERSION = (SELECT MAX(zDevice1.PROPAGENTVERSION) FROM com.livetime.assetimport.ZDEVICE zDevice1) </QUERY>

Attributes		
Name	Туре	Description
NAME	String	
CONDITION	String	

<CONDITION> Element

Get the actual condition value from the <QUERY> written for the <CONDITIONS>

<CONDITION NAME="version113" QUERYVALUE="versionQuery.PROPAGENTVERSION" CONDVALUE="11.3" VALUETYPE="NUMERIC" COND="EGREATER" TYPE="LOOKUP" />

Attributes		
Name	Туре	Description
Name	String	Name of condition, to be used later in different elements.
QUERYVALUE	String	Value as returned from the query.
CONDVALUE	String	Condition value to be compared using condition defined with 'COND' with value returned from the query.
VALUETYPE	ConditionValueType	Valid value types are; NUMERIC and STRING
COND	ConditionType	GValid value types are; REATER, LESSER, EGREATER, ELESSER, and EQUAL
ТҮРЕ	LookupType	"LOOKUP" - retrieves the data from the VALUE attribute as specified using the query.property notation.
		"QUOTED" - treats the VALUE attribute as a hard-coded value.

<ITEM> Element

The configuration mapping file is divided into "blocks" of Item Categories. In each block, we define a number of instructions to execute during AMIE's import process.

Example1:

```
<ITEM CATEGORY="Hardware" ID_KEY_FORMAT="NC_Workstation.ZenWorksAgentId">
```

Example 2:

Defining the block based upon the condition retrieved from <CONDITION> Element

<ITEM CATEGORY="Software" ID_KEY_FORMAT="NC_SoftwareComp.ComponentOID" CONDITION="version113">".

"ITEM CATEGORY" instructs AMIE to import all items within the defined XML block, as generic "Hardware". If you want to be more specific about import for Hardware, you can break down into sub-categories. For example, "Computer", "Printer", and "Network Peripheral".

Assuming the selected Asset Management Server supports the inventory control of these individual categories, defining an XML block for each category would allow the Administrator to import each Hardware Item as a "Computer, "Printer" or "Network Peripheral".

Attributes		
Name	Туре	Description
CATEGORY	String	Specifies the category of the Items getting imported. This category must exist in Service Desk prior to import.
DEFAULT_STATE	String	Default state of item to be imported. Refer to the Item life-cycle in Service Desk.
SCHEMA	String	
ID_KEY_FORMAT	String	
CONDITION	String	To illustrate the format of the primary key field for this category in the Asset Management database. In the example, "NC_Workstation.ZenWorks AgentId" says that the "ZenWorksAgentId" column of the "NC_Workstation" table will contain the primary key for hardware.

Child Elements			
Name	Occurrence	Description	
ASSET_ID_LIST	[01]		
RELATIONSHIP	[0*]		
QUERY	[0*]		
OWNERSHIP	[01]		
ITEM_TEAMS	[01]		
ITEM_TYPE			
ITEM_PROPERTY	[0*]		

<ASSET_ID_LIST> Element

To get initial list of primary key of the assets to be imported. <QUERY> element will be called for each retrieved entries from this element and PARAM_NAME will be used in <QUERY> element while defining the query conditions.

For example,

```
<asset_ID_LIST PARAM_NAME="ASSETID" HEX_KEY="TRUE">
<SELECT>SELECT ncWorkstation.ZDEVICE.PROPZUID</SELECT>
```

<FROM>FROM com.livetime.assetimport.NCWORKSTATION ncWorkstation</FROM>

```
<WHERE>ncWorkstation.PROPMACHINENAME != 'Lost and Found' and ncWorkstation.PROPISDELETED is null</WHERE>
```

<SORT1 ASCENDING="true">PROPWORKSTATIONOID</SORT1>

```
<ALIAS>ncWorkstation</ALIAS>
```

Attributes		
Name	Туре	Description
PARAM_NAME	String	A name for the primary key. This will be used in the query written under query element.
HEX_KEY	String	Specifies whether primary key is of Hexadecimal format. Valid values are 'TRUE' and 'FALSE'
CONDITION	String	Whether the query has to be executed on certain condition as defined from the Condition element earlier.

Child Occurrence		
Name	Occurrence	Description
SELECT		"SELECT" clause of the query
FROM		"FROM" clause of the query
WHERE	[01]	"WHERE" clause of the query
SORT1	[01]	Sort based on column
SORT2	[01]	Sort based on column
SORT3	[01]	Sort based on column
ALIAS		"ALIAS" if used for the FROM clause
SQLCOUNT	[01]	SQL query for count

<Sort1>,<Sort2>,<Sort3> Element

	Attributes		
Name	Туре	Description	
ASCENDING	boolean	'true/'f'alse'	

<RELATIONSHIP> Element

When defining multiple Item Category types to import, for example Hardware and Software, an Administrator can specify how they are related. Configuring these properties will allow Items to be imported with predefined relationships.

IMPORTANT: Ensure that only children element should contain the relationship information as relationships are defined from the bottom to top.

For example, Software to Hardware Relationship block

```
<RELATIONSHIP RELATED_TO="Hardware" TO="is a parent of" NAME="Parent of /
Child of (Inherit Owner)" FROM="is a child of" CLASS="1000"
INHERIT_OWNERSHIP="1">
```

```
<NATIVE_ID_QUERY>SELECT software.NCWORKSTATION.ZDEVICE.PROPZUID FROM
com.livetime.assetimport.NCSOFTWARECOMP software WHERE
software.PROPCOMPONENTOID = :SW_ASSETID</NATIVE_ID_QUERY>
```

</RELATIONSHIP>

This "Parent of/Child of" relationship already exists as one of the factory supplied relationship types. However any newly defined relationships can be mapped and created as part of the import process.

Attributes		
Name	Туре	Description
RELATED_TO	String	The Item Category another Item Category can relate to. For example "Software" is to be related to "Hardware".
NAME	String	The name of the relationship.
FROM	String	A label describing the relationship from the child to the parent. For example: [Software] is a child of [Hardware]
CLASS	String	1000=Hierarchical-based relationship.
		2000=Connection-based relationship.
INHERIT_OWNERSHIP	0 or 1	0=No (Relationship does not inherit parent ownership data.)
		1=Yes (Propagates ownership data (customer and organizational unit) from each parent Item to all of its children.)

	Child Elements		
Name	Occurrence	Description	
NATIVE_ID_QUERY	String		

<QUERY> Element

Define the 'Query' property to locate the table data.

For example, the query below will retrieve the data for Hardware. The Query Name is used to reference the property field in the child elements.

Example 1:

```
<QUERY NAME="wsQuery">SELECT ncWorkstation FROM
com.livetime.assetimport.NCWORKSTATION ncWorkstation WHERE
ncWorkstation.ZDEVICE.PROPZUID = :ASSETID</QUERY>
```

Example 2:

```
<QUERY NAME="query1" CONDITION="version113"> SELECT ncProduct FROM
com.livetime.assetimport.NCWORKSTATION ncWorkstation,
com.livetime.assetimport.NCSYSTEMCOMP ncComponent,
```

com.livetime.assetimport.NCPRODUCT ncProduct WHERE ncWorkstation.ZDEVICE.PROPZUID = :ASSETID and ncWorkstation = ncComponent.NCWORKSTATION and ncComponent.NCPRODUCTByProductoid = ncProduct and ncComponent.PROPPRODUCTTYPE = 22 and ncComponent.PROPISDELETED is null and ncProduct.PROPISDELETED is null</ QUERY>

	Attributes		
NAME	Туре	Description	
CONDITION	String		

<OWNERSHIP> Element

Optional element to define the ownership of the assets.

For example,

<OWNERSHIP>

```
<CUSTOMER FIELD="userName" VALUE="wsQuery.PROPLOGINNAME"
TYPE="LOOKUP" />
```

```
<ORG_UNIT FIELD="displayString" VALUE="wsQuery.PROPDEPT"
TYPE="LOOKUP" />
```

</OWNERSHIP>

Child Elements			
Name	Occurrence	Description	
CUSTOMER	[01]		
ORG_UNIT	[01]		

<CUSTOMER> / <ORG_UNIT> Element

Attributes		
Name	Туре	Description
FIELD	String	
VALUE	String	
ТҮРЕ	LookupType	LOOKUP, QUOTED

<ITEM_TEAMS> Element

Optional element to define field to define teams for the imported assets. Team can be assigned by either Team Name or Team ID as defined in Service desk.

Child Elements			
Name	Occurrence	Description	
INCIDENT_TEAM	[01]		
REQUEST_TEAM	[01]		
PROBLEM_TEAM	[01]		
CHANGE_TEAM	[01]		
CHANGE_TEAM	[01]		

<INCIDENT_TEAM> / < REQUEST_TEAM> / < PROBLEM_TEAM> / <CHANGE_TEAM> Element

Optional element to define field to define teams for the imported assets. Team can be assigned by either Team Name or Team ID as defined in Service desk.

Child Elements			
Name	Occurrence	Description	
TEAM_NAME	String		
TEAM_ID	String		

<ITEM_TYPE> Element

Defines asset's item type and manufacturer. Based upon the value existing/new item type and manufacturer will be used/created.

For Example:

<ITEM_TYPE>

<MANUFACTURER>

<MANUFACTURER_PROPERTY FIELD="fullName"
VALUE="query1.PROPMANUFACTURER" TYPE="LOOKUP" />

<MANUFACTURER_PROPERTY FIELD="name" VALUE="query1.PROPMANUFACTURER"
TYPE="LOOKUP" />

</MANUFACTURER>

<ITEM_TYPE_PROPERTY FIELD="itemTypeName" VALUE="query1.PROPPRODUCT"
TYPE="LOOKUP" />

</ITEM_TYPE>

Child Elements			
Name	Occurrence	Description	
MANUFACTURER			
ITEM_TYPE_PROPERTY	[1*]		
EXCLUSIONS	[01]		

<MANUFACTURER> Element

	Child Elements	
Name	Occurrence	Description
MANUFACTURER_PROPERTY	[1*]	

<MANUFACTURER_PROPERTY> Element

Attributes		
Name	Туре	Description
FIELD	String	
VALUE	String	
ТҮРЕ	LookupType	LOOKUP, QUOTED

<ITEM_TYPE_PROPERTY> Element

Attributes		
Name	Туре	Description
FIELD	String	
VALUE	String	
ТҮРЕ	LookupType	LOOKUP, QUOTED

<EXCLUSIONS> Element

Child Elements			
Name	Occurrence	Description	
CONTAINS	[0*]	String	
ABSOLUTE	[0*]	String	

<ITEM_PROPERTY> Element

Define the 'Item Property' to extract column data for the above Query.

Each of these entries maps an Item property, from the Asset Management Server to the service management system. For example, the value in the SerialNumber field of the Asset Management Server will be mapped to the Serial Number (field10) field of the service desk database.

Attributes		
Name	Туре	Description
FIELD	String	This is the name of the field that exists in the system database. The field "field10" for the "Hardware" Item Category maps to the "Serial Number" field.
		For a current Entity- Relationship Diagram that includes these database fields, please contact your local support contact.
VALUE_PREFIX	String	This will prefix the actual value returned from the Asset Management Server database.

Attributes		
Name	Туре	Description
VALUE	String	This value can either be a hard- coded value, or a value the Administrator wants to import from the Asset Management Server database (see: TYPE attribute below)
		For the latter, we define a string using the query.property notation, which will reference the actual value in the database.
		In our example, our VALUE attribute is "wsQuery.PROPSERIALNUMBE R ".
		 "wsQuery" - the query name where our results are contained, the "Hardware" table.
		 "PROPSERIALNUMBER" - the property name, where the actual cpu value is stored, the "SIZE" column.
		In most cases, the property name is identical to the database column name, with the first letter capitalized followed by lower-case. Property names are always pre- appended with the word "prop", to ensure uniqueness in the import process.
		Take this into consideration when defining custom properties.
VALUE_SUFFIX	String	This will suffix the actual value returned from the Asset Management Server database.
ТҮРЕ	LookupType	"LOOKUP" - retrieves the data from the VALUE attribute as specified using the query.property notation.
		"QUOTED" - treats the VALUE attribute as a hard-coded value.

<ITEM_PROPERTY FIELD="field10" VALUE_PREFIX=""

VALUE="wsQuery.PROPSERIALNUMBER" VALUE_SUFFIX="" TYPE="LOOKUP"/>

<SCHEMA> Element

Choose either <DROP> or <INCLUDE> to exclude unnecessary or to include only required.

Example 1: Using <DROP> to exclude unnecessary tables.

<SCHEMA>

Child Elements

Name	Occurrence	Description	
DROP			

INCLUDE

<DROP>/<INCLUDE> Element

Child Elements			
Name	Occurrence	Description	
RELATIONSHIP_MAPPING	[0*]		
MAPPING_FILE	[0*]		

<RELATIONSHIP_MAPPING>

	Attributes	
Name	Туре	Description
NAME	String	

<MAPPING_FILE>Element

	Attributes	
Name	Туре	Description
NAME	String	

Upload / Edit the XML Configuration

Once the XML has been customized it needs to be imported back into the system to enable the application to import Items using the new specifications.

To import the XML:

- 1. Log in as an Administrator
- 2. Select Setup > Item Import > Customize
- 3. From the Mapping Operation drop-down list, select Upload/Edit Configuration

AMIE	
Setup	Import Customize
New	
Mapping	
Operation	Upload/Edit Configuration
Server	
Туре	[New Configuration]

- 4. Select [New Configuration] in the Type list
- 5. Click New
- 6. Select Choose File
- 7. Search and upload the XML file

AMIE	
Setup	Import Customize
Mapping	
Operation	Upload/Edit Configuration
Server	
	[New Configuration]
Configuration	
Mapping File	Browse user_details.xml
Connection Defaults	
Database Type	Ingres
Database Name	
Username	
Password	
Schema	
Catalog	
	Cancel Import

8. Enter Connection Default values for the database type, name, username, password, schema and catalog, if necessary

These will be the pre-set values when selecting and mapping the new Server Type.

9. Click Import button to import the XML file

When the import is complete, the new configuration file will appear as a new Server Type.

- 10. The Server Connection Details can be modified or updated by clicking Edit and making the required changes
- 11. Click Save.

Using the customized Server Type

Once a new Server configuration has been imported into the system, it can be selected as an option when configuring AMIE in the Setup tab.

To use the new Server Type:

- 1. Log in as an Administrator
- 2. Select Setup > Item Import > Setup
- 3. Select the System Type as Database Mapping (AMIE)
- 4. From the Server Type list select the customized server

AMIE	
Setup	Import Customize
Server	
Туре	ZENworks Configuration Management v11.1+
Identifier	ZENworks Asset Management v6.5+ ZENworks Configuration Management v11.1+
Database	ZENworks Configuration Management v11.1+ (Hardware)
Туре	SQLServer 🔹
Host	
Port	1433
Name	zenworks
Username	zenadmin
Password	
Schema	dbo
Catalog	zenworks_
Ownership	
Default Customer	 Unassigned (Import Items as Global)
	System User
	Selected Customer:

- 5. Configure the database connect, ownership and synchronization period
- 6. Click Test to confirm the connection then Save when complete.

For more information on importing Items via AMIE, see: Importing Items Using Database Mapping.

6.16.3 Managing Items using Database Mapping (AMIE)

Within the CMDB Import screen multiple asset management datasources can be synchronized with the service management system. When one or more applications are configured within AMIE, a list is displayed within the AMIE Setup tab.

Setup	Import	Custom	lze	
New	Delete			
Server			Identifier	Last Updated
ZENworks Configuration Software Inc.)	Management v11.1 (LiveTime	Blue	04/16/12 15:52
ZENworks Configuration (LiveTime Software Inc.)		Hardware	Green	

Importing Items Using Database Mapping

To import Items using Database Mapping, the following configuration steps need to be completed:

- 1. Select Setup>AMIE
- 2. Click New

The Server, Database, Ownership and Synchronization fields appear.

NOTE: If you have migrated ZENworks from one database provider to another database provider, then ensure that you review the database details and make the necessary changes.

AMIE	
Setup	Import Customize
Server	
Туре	ZENworks Asset Management v6.5+
Identifier	
Database	
Туре	SQLServer 💌
Host	
Port	1433
Name	ZENworks
Username	NCSystem
Password	•••••
Schema	dbo
Catalog	ZENworks
Ownership	
Default Customer	Onassigned (Import Items as Global)
	System User
	Selected Customer:
Ignore Domain Info	
Synchronization	
Auto Create New Items	Yes No
Frequency	Never 💌
	Test Cancel Save

Configuration	
System Type	Define the system type as Database Mapping.
Identifier	An identifying label that is used in List Views to inform Users regarding the Source of an Item.
Server	
Туре	Select the Type of inventory management product.
Database	
Туре	Select the Database Type.
Host	Enter the Host name or IP Address.

Configuration	
Port	Enter the Port Number for the database server.
Name	Enter the Database name.
Username	Complete User name details.
Password	Complete Password details.
Schema	Enter the Schema type.
Catalog	Enter the Catalog name. Typically this would be the name of the Database.
Notification (Only If 'Control CMS via RFC' is enabled)	
Email RFC's to Tech?	Select this option if technicians are to be notified of generated change requests.
Ownership	
Unassigned (Import Items as Global)	Select this option if Items are to be globally owned
System User	Select this option to assign imported Items to the System User.
Selected Customer	Select this option to assign imported Items to a specific Customer.
Ignore Domain Info	Tick this field if the system is to disregard domain details attached to the User Name inside the AMIE source when assigning an owner.
Synchronization	
Auto Create New Items	This option is only visible when a single AMIE source is defined within AMIE. When enabled, Items are automatically created upon synchronization, relative to the Control CMS via RFC setting within the Setup>Privileges>Requests tab.
	If disabled, a snapshot of imported asset information is listed within the Super>Configuration>AMIE Snapshots tab.
Frequency	Choose a synchronization interval. This can be left as Never if the database will be synchronized manually.
	NOTE: Synchronization times will vary depending on the connection speed with the external service and the database size.

3. Click Test, to initiate a connection and test the setup

If a connection is not made, a system message will advise which part of the configuration was not successful.

- 4. Click Save
- 5. To execute the import, click the Import button
- 6. After the import is complete, an Alert appears providing results of the import. Click on the Publish link to read the Alert details.

Aler	ts			
	Dismiss R	SS Feed		
⊠	Publish	₹ Severity	≣ Title	≣
	101/06/16 16:25	Warning	Alert1	
			1 - 1 of 1 Results	

AMIE Import Alert

Alerts are generated for the Admin User after the AMIE synch is completed. The import alert summary displays:

- the details of the system that the synchronization was run against, as it is possible to import from multiple sources.
- the number of assets found in the datasource.
- the number of assets automatically created if a single datasource is configured in AMIE and the auto-create option is enabled; or if the Auto-Create option is disabled and Items already exists in the system, the number of Items that were updated.
- the number of AMIE Snapshots successfully imported, with a breakdown of new Items added and number of Items updated.

Delete Options and AMIE

The options to delete AMIE configurations can be achieved through the List View on the AMIE Setup tab, or by clicking on the a hyperlink within the Server column within the List View, which displays the expanded Setup view for the specific asset management tool.

The Delete button clicked in the AMIE>Setup tab>List View results in Global level "delete" flags being applied to all AMIE-managed Items stored in the system, however it retains the server details configured in AMIE and their associated snapshots.

The imported Items that are deleted are not completely removed from the database but are flagged as not available. By not erasing the Items completely, the historical data is maintained and allows these Items to be re-enabled in the future. It should be noted that the Item Types associated with the deleted imported Items are not disabled in the application.

The Delete button selected within the expanded Setup tab view for the specific asset management datasource, results in Configuration level deletion of the configured server and any related AMIE snapshots.

NOTE: The application must be restarted after the performance of either deletion operation, to allow the changes to take effect and prevent unpredictable behavior of the system.

E	
Setup	Import Customize
Edit	
Server	
	ZENworks Configuration Management v11.1 (LiveTime Software Inc.)
Identifier	· · · · · · · · · · · · · · · · · · ·
Database	
	SQLServer
	10.0.1.166
	1433
	zenworks_11
Username	
Schema	The second se
	zenworks_11
Ownership	
	Unassigned (Import Items as Global)
Synchronization	
Auto Create New Items	and to
Frequency	
Last Completed	
and a surploted	
	Import Delete Done

To delete the server configuration within AMIE and related snapshots:

- 1. Select Setup>AMIE>Setup
- Select the Server link option within the AMIE list view
 The expanded Setup screen is displayed with the Delete button.
- 3. Select the Delete button

A pop-up message is displayed asking your to confirm the deletion action.

WARNING! This will delete ALL imported items from the CMDB. You will need to restart the system after the d	elete process completes. Are you sure?
	OK Cancel

4. Click OK.

A warning message is displayed informing you to restart the application server to complete the deletion process.



Re-enabling Deleted Items

To re-enable Deleted Items, initiate an Item search on deleted Items within the Configuration>Items screen of the Supervisor view.

Within the Supervisor view to search for a deleted Item:

- 1. Select Configuration>Items
- 2. Click the Search button

A simple search page will be displayed

earch Items					
Global Options	Attributes				
Item No.					
Team		•			
Description					
Notes					
Manufacturer		•			
	- 11				
Search Globals		•			
	Deleted Items Only				
Owner Options					
First Name					
Last Name					
User Name					
Org. Unit					
Purchase Order Option					
urchase Order No					
Type Options					
Item Category		•			
Item Type					
	All				
	 All Active 				
	Inactive				
			Cancel	Clea	ar

- 3. Enter a search term
- 4. Select the Deleted Item Only option
- 5. Click Search

A list of Items is displayed.

- 6. For the Item to be re-enabled, select the Item ID#
- 7. Click Enable

NOTE: Service desk now uses service name of the Oracle database configured with ZENworks. While using the Oracle database, if you are unable to connect to ZENworks, see ZENworks Core Admin for the service name.

6.16.4 Importing Items using a .CSV File

To import Items using a .CSV file, a .CSV template, containing all available fields, can be downloaded and populated. The service management system uses a field mapping Wizard to match fields in the template to those in the system. To download the template go to Setup > Item Import > Import. See Downloading an Item .CSV Template for more information on configuring the .CSV file.

Before Importing a CSV File

For an Item to be successfully imported, the following fields must be mapped:

- Team/s
- Status.

The Teams within the .CSV file must be created in the system before they can be associated with an Item as part of a .CSV import. Teams are created by a Supervisor under the User>Teams tab.

Items are imported based on Category (i.e. Hardware, Software, etc.), which must be configured by the Supervisor within the Configuration>Categories tab before conducting a .CSV import. The Categories configuration defines the Details recorded in the Item to be imported into the system. The Administrator must create separate .CSV files based on the Categories configured, that are then individually uploaded into the application.

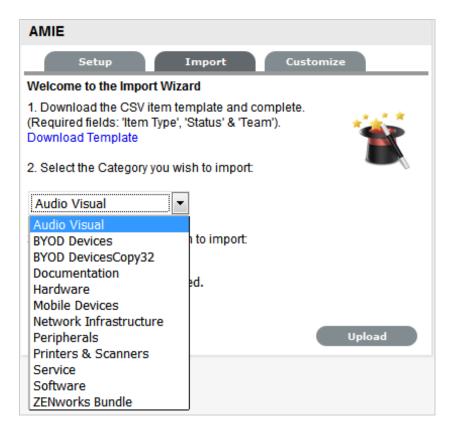
For Items imported with owners, the Username in the .CSV file must match the Username within the support system. If the owner does not exist in the system, the imported Item will become a Global Item.

NOTE: If relationships are to be created between Items upon import, Parent Items should be imported first. If the system generated Item Number is to be used for the Parent Item, it needs to be included in the Parent Item Number field of the Related Items when they are imported.

Importing Items

To import a CSV File using the Import Wizard:

- 1. Select Setup>AMIE
- 2. Select the Import tab



To access a template that illustrates the fields the application maps and the data types (see below), click the Download Template link on the Item Import Wizard screen within the Setup>AMIE>Import tab.

The following fields should be visible:

Item Number(Unique char 64),Item Type(char 128),Manufacturer(char 128),Incident Team(char 64),Problem Team(char 64),Change Team(char 64),Request Team(char 64), Company(char 128),Department(char 128),Room(char 64),Username (char 64),Status(char 128),Criticality(char 64)Purchase Date(datetime),Cost(decimal),Field1(char 256),Field2(char 256),Field3(char 256),Field4(char 256),Field5(char 256),Field6(char 256),Field7(char 256),Field8(char 256),Field10(char 256),Field11(char 256),Field12(char 256),Field13(char 256),Field14(char 256),Field15(char 256),Field16(char 256),Field12(char 256),Field13(char 256),Field14(char 256),Field15(char 256),Field16(char 256),Field17(char 256),Field18(char 256),Field19(char 256),Field20(char 256),Field16(char 256),Field17(char 256),Field18(char 256),Field19(char 256),Field20(char 256),Notes(CLOB),Relationship Name(char 256),Parent Item Number(char 64)

The char ### designation in parentheses after each field name signifies what type of data the import utility expects to see in each field. For instance:

- Item Type (char 128) means that the first name field cannot exceed 128 characters.
- Fields marked as Unique must be unique in the system.
- Note the Room details MUST be in the following format: COMPANY-DEPARTMENT;Room

When creating a .CSV file for a Category, to determine the Field number of a configured Custom Field, within the Category tab of an Item Category select the System defined Ordering option. The field labels will then be listed in sequential order from one to twenty.

3. To import, select the Item Category

The drop-down list consists of all Categories created by the Supervisor in Configuration>Categories.

- 4. Enter the file location, or use the Browse button
- 5. Select Upload

The Field Mapping Wizard appears. Fields that can be mapped to the CSV file are available in the drop-down list.

eld Mapping Wiz	ard			***	*
elect the fields yo	u wish to map to the internal databa	se re	cords.	1	5
General			General		
Item Number	[0] Item Number (Unique char 64) 🗸 🗸		Company	[8] Company (char 128) 🗸 🗸 🗸	
Username	[11] Username (char 128) 🔹 🗸 🗸		Department	[9] Department (char 128) V	
ltem Type 📘	[1] Item Type (char 128)	~	Room	[10] Room (char 64) 🗸 🗸	
Manufacturer	[2] Manufacturer (char 64)	~	Service Level	[7] Service Level (char 256)	~
Incident Team	[3] Incident Team (char 64)	~	Date Format	MM/dd/yy HH:mm	
Criticality	[13] Criticality (char 64) v		Contract Start Date	[14] Contract Start Date (datetime)	~
Status	[12] Status (char 64) 🗸 🗸		Contract End Date	[15] Contract End Date (datetime)	~
			Purchase Date	[16] Purchase Date (datetime)	~
Details			Cost	[17] Cost (decimal) 🗸 🗸	
Business Unit	[19] Field 1 (char 128)	~	Monthly Cost	[18] Monthly Cost (decimal)	
Туре	[20] Field 2 (char 128)	~	Notes	[59] Notes (CLOB)	~
Environment	[21] Field 3 (char 128)	~	Description	[62] Description (CLOB)	~
			Details		
Relationships				[22] Field 4 (char 128)	~
Relationship Name	[60] Relationship Name (char 256)	~	2010/01/01/01/00/00	[23] Field 5 (char 128)	~
arent Item Number	[61] Parent Item Number (char 64)	*		[24] Field 6 (char 128)	~
			0.1		
			Options	gnore First Line	
			Fields that do not con	tain matching system records automatic.	ally

6. Review and map the fields within the .CSV

Field Mapping Wizard

General

the .CSV file. Username Customer owning the Configuration Item, imported by entering their user name. Item Type II Item Type of the Configuration Item. Manufacturer I Sets the manufacturer details of the Item. Incident Team I Incident Team assigned to the Configuration Item Problem Team I Problem Team assigned to the Configuration Item Request Team I Change Team assigned to the Configuration Item Criticality Sets the default Criticality (i.e. critical, high, moderate, low, very low) for the Item. Optional. Status I Default Configuration Item. Department I Department owning the Configuration Item. Department I Department owning the Configuration Item. Room I The location of the Item. The .csv file data forma to import this information MUST be: COMPANY-DEPARTMENT;Room Service Level Contract Start Date Sets the end date of a contract associated with a Item. Purchase Date Date the Item was purchased. Cost The cost of the Item. Monthly Cost Sets the monthly Service Cost on per month basi for the Item. Purchase Date Date the Item. Date Sets the ent of a contract associated with a Item. Purchase Date <th>Field Mapping Wizard</th> <th></th>	Field Mapping Wizard	
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displayed and can be mapped to the Item based o	Details	
	Fields 1 to 20	displayed and can be mapped to the Item based on
Relationships	Relationships	

Field Mapping Wizard	
Relationship Name	Defines the description of the relationship between the Item set in the following field.
Parent Item Number	Identifies the Item with which an Item is related using the Item Number.
Options	
Ignore First Line	Option to ignore first row upon import.
Verbose Errors	Detailed description of any errors that occur during the import process.

NOTE: While specifying a date, ensure that you include time also along with date as shown in the below image.

I = Information that needs to exist in the system before the import

/ = Fields that are mandatory

NOTE: If relationships are to be created between Items upon import, Parent Items should be imported first. If the system generated Item Number is to be used for the Parent Item, it needs to be included in the Parent Item Number field of the Related Items when they are imported.

Relationships		Fields that do not contain matching system records automatically create new records.
Relationship Name	[60] Relationship Name (char 256)	
Parent Item Number	[61] Parent Item Number (char 64)	
		Cancel Import

1. Select the Ignore First Line checkbox if the first line of the imported CSV file has field headings

Leave the checkbox clear if the CSV file begins with usable data.

- 2. Click Verbose Errors to record a detailed description of any errors that occur during the import Leaving the box unchecked will return a summarized error report.
- 3. Select Import to bring into the system the mapped field data
 - The Item Import screen displays the results of the import.
- 4. Select Done.

Configuring Items after the Import

During the Item Import, elements that do not exist in the database are created. These are the fields marked with a blue line within the Field Mapping Wizard:

Item Type

Warranty

5.

• Organizational Units.

After an import, all Item Types that have been created will need to be further configured.

To complete Item Type configuration:

- 1. Log in to the Supervisor Portal
- 2. Select Configuration>Types
- 3. In the Item Types screen, click on the newly created Item
 - The Type Information screen appears.
- 4. Complete the following fields:
 - Item Type Name Name of the Item Type. Manufacturer The manufacturer of the Item Type. New manufacturers can be created and existing manufacturers can be edited and deleted by using the Edit and New buttons that appear beside the drop-down menu of manufacturers. Item Category This signifies the type of Item. (Hardware, Software or Service are the default Types, but Users with the Supervisor Role can create more if required). Identifier The drop-down list that appears is drawn from the fields defined for the Item Category selected. Although this information is not required, the Identifier is used to differentiate similar Items that may be in use throughout an organization. For example, if an organization uses the same printers for all departments, an Item Category field of "Location" could be configured for the Item Details and this could also be used as a secondary Identifier for Printer Item.

Item Type Criticality Rates the degree of importance of an Item Type within an organization, which can be adjusted on a per Item basis. The 'Impact' of a Request is initially pulled from the Criticality of the Item, but can be adjusted within the request Information screen if required. Requests logged through the Customer Portal, use the Criticality of the Item to set the Priority of the request. The Incident Analyzer, if enabled by the Administrator in Setup>CMS>Incident Analyzer, can apply the Criticality to automatically detect Problems. The minimum Criticality level can also be used to determine the off-line Items that appear on Outages pages, if the Outages pages are enabled by the Administrator in Setup>Privileges>System. Icon When the Type details are saved, the Icon selected for the Item Category will be displayed. To customize the icon for the specific Item Type, select the Icon to access the Upload Cancel Upload or Cancel options. Unit Price The per-unit price of the Item Type. Instance Total Number of instances owned by the organization. Assigned Number of instances assigned to Customers as Items.

Hidden

Creation

Select 'On' to ensure Customers cannot view this Item Type within the list in the Customer Portal. If all Item Types use this selection, the Item Type list will be completely removed from the Portal.

Items created using Item Types with Hidden enabled, will not allow Customers to generate requests against them in the Customer Portal, nor will they be able to view or receive updates about requests logged by the User against Items with this functionality enabled.

Enabling this option gives Customers using the portal the ability to create new Items using this Item Type (if they have been granted the ability to create Items by the Administrator in Setup>Privileges>Customer>Create Item. (This option is not displayed when the Hidden option is enabled.)

Item Type	
Ignore Share	Enabling this option overrides the system level option for sharing requests raised against Items of this Type. Requests raised against Items of this Type will not appear in the customer portal when viewing shared requests is enabled.
Add Forum Topic	Create a forum topic using the Item Type Name. This option is only displayed when a new Type is being created.
Incident Default	The Team of Technicians assigned to support Incidents received related to the Item Type. See: Teams
Problem Default	The Team of Technicians assigned to support Problems received related to the Item Type. See: Teams
Change Default	The Team of Technicians assigned to support Change Requests received related to the Item Type. See: Teams
Request Default	The Team of Technicians assigned to support Service Requests received related to the Item Type. See: Teams
Service Level Default	The default service level for the Item Type. When Billing is enabled, service levels without a cost are listed as an option. The service level with an associated cost can be applied when the Item created, this ensures Item contract payment is processed.
Support Levels	All Service Level Agreements assigned to the Item Type, which will be displayed as options when a request is created applying Item that uses this Type template. SLAs listed here, are used within the Costs tab of Service Types to forecast break even points on the Service relative to the number of Users.
Find SLA (Name)	To assign multiple SLAs use this option. Click Search to view all SLAs or refine the search by entering a specific name. Select the SLA hyperlink to assign the SLA to the Type Information. Click Cancel to clear the search field.

6. Enter the Unit Price for the Item Type. This is an optional field that is used for asset management

See Finance Role.

7. Set the Customer options

- 8. Assign the default support Teams
- 9. Assign one or multiple SLAs, as required
- 10. Click Save
- 11. Move to the Classification tab to create problem classification for this Item Type.

Click on the Item Type name to continue configuration.

Assigning multiple Companies and Departments to an Item

The .CSV file import facility can also be used to assign more than one Company and Department to an Item, if required. To assign multiple companies within the Company column of the .CSV file, enter the company names separated by a semi-colon (;) If the Company or Companies do not exist in the system, or have been deleted, a new Company will be created.

When importing multiple Departments related to the multiple Companies, the Department related to the Company must be listed in the same order as the Companies and separated by a semi-colon. For example:

Company Field: comp1;comp2

Department Field: dept1:depart2 or ;dept2 or dept1;

Any departments that do not exist in the database or have been deleted, will be created as a result of the .CSV import.

To assign rooms to one of the locations of this multiple Company/Department assignment, the full details of the Company and Department must be entered into the column followed by a semi-colon and the Room number. An example of the Room import format is:

Company Field:CompName1;CompName2

Department Field:Dept1;Dept2

Room Field: CompName1 - Dept1;Room1

Updating Item Information via .CSV

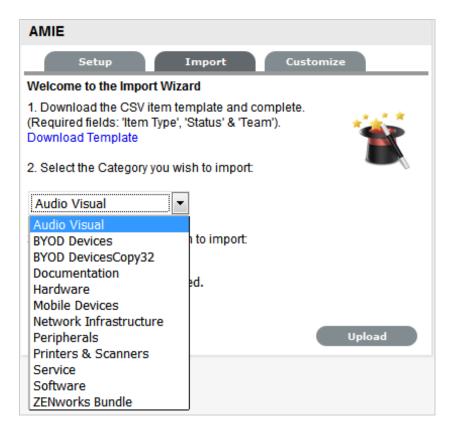
To easily update multiple Items that already exist within system, information can be imported using a .CSV file. For the update to be successful, the Item number in the .CSV file must match the Item number in the system.

Follow the above *Importing Items* procedure and ensure the Item Number field is mapped correctly. If an Item Number is not included in the .CSV file, a new Item will be created.

6.16.5 Downloading an Item .CSV Template

To download and populate the CSV Template for the CMDB Item Import process:

- 1. Select Setup>AMIE
- 2. Select the Import tab



To view a template that illustrates the fields the application is looking for and the data types (see below), click the Download Template link on the Item Import Wizard screen within Import tab of Item Import in the Setup tab.

The following fields should be visible:

Item Number(Unique char 64),Item Type(char 128),Manufacturer(char 128),Incident Team(char 64),Problem Team(char 64),Change Team(char 64),Request Team(char 64), Company(char 128),Department(char 128),Room(char 64),Username (char 64),Status(char 128),Criticality(char 64)Purchase Date(datetime),Cost(decimal),Field1(char 256),Field2(char 256),Field3(char 256),Field4(char 256),Field5(char 256),Field6(char 256),Field7(char 256),Field8(char 256),Field10(char 256),Field11(char 256),Field12(char 256),Field13(char 256),Field14(char 256),Field15(char 256),Field16(char 256),Field12(char 256),Field13(char 256),Field14(char 256),Field15(char 256),Field16(char 256),Field17(char 256),Field18(char 256),Field19(char 256),Field20(char 256),Field16(char 256),Field17(char 256),Field18(char 256),Field19(char 256),Field20(char 256),Notes(CLOB),Relationship Name(char 256),Parent Item Number(char 64)

The char ### designation in parentheses after each field name signifies what type

of data the import utility expects to see in each field. For instance:

- a. Item Type (char 128) means that the first name field cannot exceed 128 characters.
- b. Fields marked as Unique must be unique in the system.
- c. Note the Room details MUST be in the following format: COMPANY-DEPARTMENT;Room
- 3. To import, select the Item Category

The drop-down list consists of all Categories created by the Supervisor in Configuration>Categories.

- 4. Enter the file location, or use the Browse button
- 5. Select Upload

The Field Mapping Wizard appears. Fields that can be mapped to the CSV file are available in the drop-down list.

ard			1	*
ou wish to map to the internal datab	ase re	cords.		F.
		General		
[0] Item Number (Unique char 64) v			[8] Company (char 128) v	
[11] Username (char 128) v		Department	(9) Department (char 128) v	
[1] Item Type (char 128)	~	Room	[10] Room (char 64) 🗸 🗸	
[2] Manufacturer (char 64)	~	Service Level	[7] Service Level (char 256)	~
[3] Incident Team (char 64)	~	Date Format	MM/dd/yy HH:mm	
[13] Criticality (char 64) v		Contract Start Date	[14] Contract Start Date (datetime)	~
[12] Status (char 64) v		Contract End Date	[15] Contract End Date (datetime)	~
		Purchase Date	[16] Purchase Date (datetime)	~
		Cost	[17] Cost (decimal)	
[19] Field 1 (char 128)	~	Monthly Cost	[18] Monthly Cost (decimal)	
[20] Field 2 (char 128)	~	Notes	[59] Notes (CLOB)	~
[21] Field 3 (char 128)	~	Description	[62] Description (CLOB)	~
		Details		
		T 71727	[22] Field 4 (char 128)	~
[60] Relationship Name (char 256	i) 🗸	account of the state		~
[61] Parent Item Number (char 64) ~			~
		Options	gnore First Line	
			Verbose Errors	ally
	[0] Item Number (Unique char 64) × [11] Username (char 128) × [1] Item Type (char 128) × [2] Manufacturer (char 64) × [3] Incident Team (char 64) × [13] Criticality (char 64) × [12] Status (char 64) × [19] Field 1 (char 128) × [20] Field 2 (char 128) × [21] Field 3 (char 128) × [60] Relationship Name (char 256) ×	[0] Item Number (Unique char 64)\ntemp[11] Username (char 128)\ntemp[1] Item Type (char 128)\ntemp[2] Manufacturer (char 64)\ntemp[3] Incident Team (char 64)\ntemp[13] Criticality (char 64)\ntemp[12] Status (char 64)\ntemp[19] Field 1 (char 128)\ntemp<	[11] Username (char 128) Cepartment [11] Item Type (char 128) Room [2] Manufacturer (char 64) Service Level [3] Incident Team (char 64) Date Format [13] Criticality (char 64) Contract Start Date [12] Status (char 64) Contract End Date [12] Status (char 64) Purchase Date [19] Field 1 (char 128) Monthly Cost [20] Field 2 (char 128) Notes [21] Field 3 (char 128) Description [60] Relationship Name (char 256) Date Responsible [61] Parent Item Number (char 64) Contact	I0] Item Number (Unique char 64) \v I1] Username (char 128) \v I1] Item Type (char 128) \v I2] Manufacturer (char 64) \v I3] Incident Team (char 64) \v I3] Incident Team (char 64) \v I2] Status (char 64) \v I2] Field 1 (char 128) \v I2] Field 3 (char 128) \v I2] Field 3 (char 128) \v I3] Field 3 (char 128) \v I60] Relationship Name (char 256) \v I61] Parent Item Number (char 64) \v I61] Parent Item Numb

6. Review and map the fields within the .CSV

Field Mapping Wizard		
General		
ltem Number	Unique Item number of the Configuration Item, this can be generated by the system or defined in the .CSV file.	

Field Mapping Wizard Username Customer owning the Configuration Item, imported by entering their user name. Item Type II Item Type of the Configuration Item. Manufacturer I Sets the manufacturer details of the Item. Incident Team I Incident Team assigned to the Configuration Item. Problem Team I Problem Team assigned to the Configuration Item. Change Team I Change Team assigned to the Configuration Item. Request Team assigned to the Configuration Item **Request Team I** Criticality Sets the default Criticality (i.e, critical, high, moderate, low, very low) for the Item. Optional. Default Configuration Item Status. Status I Company owning the Configuration Item. Company I Department I Department owning the Configuration Item. Room I The location of the Item. The .csv file data format to import this information MUST be: COMPANY-DEPARTMENT;Room Service Level Configuration Item assigned SLA. Date Format Displays the date format required for the contract details to be imported successfully. Contract Start Date Sets the start date of a contract associated with an Item. Contract End Date Sets the end date of a contract associated with an Item. Purchase Date Date the Item was purchased. Cost The cost of the Item. Monthly Cost Sets the monthly Service Cost on per month basis for the Item. Notes Free text to add notes to the Item. Optional. Details Fields 1 to 20 Custom fields created for the Category are displayed and can be mapped to the Item based on information included in the .CSV file. Relationships

Defines the description of the relationship between the Item set in the following field.

Relationship Name

Field Mapping Wizard	
Parent Item Number	Identifies the Item with which an Item is related using the Item Number.
Options	
Ignore First Line	Option to ignore first row upon import.
Verbose Errors	Detailed description of any errors that occur during the import process.

I = Information that needs to exist in the system before the import

/ = Fields that are mandatory

NOTE: If relationships are to be created between Items upon import, Parent Items should be imported first. If the system generated Item Number is to be used for the Parent Item, it needs to be included in the Parent Item Number field of the Related Items when they are imported.

Relationships		Fields that do not contain matching system records automatically create new records.
Relationship Name	[60] Relationship Name (char 256)	
Parent Item Number	[61] Parent Item Number (char 64)	
		Cancel Import

- 1. Select the Ignore First Line checkbox if the first line of the imported CSV file has field headings. Leave the checkbox clear if the CSV file begins with usable data.
- 2. Click in Verbose Errors for detailed descriptions of any errors that may occur during the import

Leaving the box unchecked will return abbreviated errors.

3. Select Import to bring into the system the mapped field data

The Item Import screen displays the results of the import.

4. Select Done.

Configuring Items after the Import

During the Item Import, elements that do not exist in the database are created. These are the fields marked with a blue line within the Field Mapping Wizard:

- Item Type
- Warranty
- Organizational Units.

After an import, all Item Types that have been created will need to be further configured.

To complete Item Type configuration:

1. Log in to the Supervisor Portal

- 2. Select Configuration>Types
- In the Item Types screen, click on the newly created Item The Type Information screen appears.
- 4. Complete the following fields:

Item Type	
Name	Name of the Item Type.
Manufacturer	The manufacturer of the Item Type. New manufacturers can be created and existing manufacturers can be edited and deleted by usin the Edit and New buttons that appear beside the drop-down menu of manufacturers.
Item Category	This signifies the type of Item. (Hardware, Software or Service are the default Types, but Users with the Supervisor Role can create more i required).
Identifier	The drop-down list that appears is drawn from th fields defined for the Item Category selected. Although this information is not required, the Identifier is used to differentiate similar Items that may be in use throughout an organization. For example, if an organization uses the same printer for all departments, an Item Category field of "Location" could be configured for the Item Detai and this could also be used as a secondary Identifier for Printer Item.
Criticality	Rates the degree of importance of an Item Type within an organization, which can be adjusted on per Item basis. The 'Impact' of a Request is initial pulled from the Criticality of the Item, but can be adjusted within the request Information screen in required. Requests logged through the Customer Portal, use the Criticality of the Item to set the Priority of the request.
	The Incident Analyzer, if enabled by the Administrator in Setup>CMS>Incident Analyzer, can apply the Criticality to automatically detect Problems.
	The minimum Criticality level can also be used to determine the off-line Items that appear on Outages pages, if the Outages pages are enabled by the Administrator in Setup>Privileges>System

Item Type	
lcon	When the Type details are saved, the Icon selected for the Item Category will be displayed. To customize the icon for the specific Item Type, select the Icon to access the Upload
	Upload or Cancel Cancel options.
Unit Price	The per-unit price of the Item Type.
Instance Total	Number of instances owned by the organization.
Assigned	Number of instances assigned to Customers as Items.
Hidden	Select 'On' to ensure Customers cannot view this Item Type within the list in the Customer Portal. If all Item Types use this selection, the Item Type list will be completely removed from the Portal.
	Items created using Item Types with Hidden enabled, will not allow Customers to generate requests against them in the Customer Portal, nor will they be able to view or receive updates about requests logged by the User against Items with this functionality enabled.
Creation	Enabling this option gives Customers using the portal the ability to create new Items using this Item Type (if they have been granted the ability to create Items by the Administrator in Setup>Privileges>Customer>Create Item. (This option is not displayed when the Hidden option is enabled.)
Ignore Share	Enabling this option overrides the system level option for sharing requests raised against Items of this Type. Requests raised against Items of this Type will not appear in the customer portal when viewing shared requests is enabled.
Add Forum Topic	Create a forum topic using the Item Type Name. This option is only displayed when a new Type is being created.
Incident Default	The Team of Technicians assigned to support Incidents received related to the Item Type. See: Teams
Problem Default	The Team of Technicians assigned to support Problems received related to the Item Type. See: Teams
Change Default	The Team of Technicians assigned to support Change Requests received related to the Item Type. See: Teams

Item Type	
Request Default	The Team of Technicians assigned to support Service Requests received related to the Item Type. See: Teams
Service Level Default	The default service level for the Item Type. When Billing is enabled, service levels without a cost are listed as an option. The service level with an associated cost can be applied when the Item created, this ensures Item contract payment is processed.
Support Levels	All Service Level Agreements assigned to the Item Type, which will be displayed as options when a request is created applying Item that uses this Type template. SLAs listed here, are used within the Costs tab of Service Types to forecast break even points on the Service relative to the number of Users.
Find SLA (Name)	To assign multiple SLAs use this option. Click Search to view all SLAs or refine the search by entering a specific name. Select the SLA hyperlink to assign the SLA to the Type Information. Click Cancel to clear the search field.

6. Enter the Unit Price for the Item Type. This is an optional field that is used for asset management

See Finance Role.

- 7. Set the Customer options
- 8. Assign the default support Teams
- 9. Assign one or multiple SLAs, as required
- 10. Click Save
- 11. Move to the Classification tab to create problem classification for this Item Type. Click on the Item Type name to continue configuration.

Assigning multiple Companies and Departments to an Item

The .CSV file import facility can also be used to assign more than one Company and Department to an Item, if required. To assign multiple companies within the Company column of the .CSV file, enter the company names separated by a semi-colon (;) If the Company or Companies do not exist in the system, or have been deleted, a new Company will be created.

When importing multiple Departments related to the multiple Companies, the Department related to the Company must be listed in the same order as the Companies and separated by a semi-colon. For example:

Company Field: comp1;comp2

Department Field: dept1:depart2 or ;dept2 or dept1;

Any departments that do not exist in the database or have been deleted, will be created as a result of the .CSV import.

To assign rooms to one of the locations of this multiple Company/Department assignment, the full details of the Company and Department must be entered into the column followed by a semi-colon and the Room number. An example of the Room import format is:

Company Field:CompName1;CompName2

Department Field:Dept1;Dept2

Room Field: CompName1 - Dept1;Room1

Updating Item Information via .CSV

To easily update multiple Items that already exist within system, information can be imported using a .CSV file. For the update to be successful, the Item number in the .CSV file must match the Item number in the system.

Follow the above *Importing Items* procedure and ensure the Item Number field is mapped correctly. If an Item Number is not included in the .CSV file, a new Item will be created.

6.16.6 Financial Management

Financial Management quantifies, in financial terms, the value of IT services for the business and IT department. This includes measuring the value of the underpinning infrastructure that provides the services and qualifying operational forecasts. Applying a services approach to IT, financial management helps identify, document and agree on the value of services being provisioned by IT, and provides service demand modeling and management.

With a goal to ensure funding for the delivery and consumption of services, Financial Management focuses on the demand and supply requirements based on business strategy, capacity inputs and forecasting use. As a transitional role between an organization's corporate finances and service management, Financial Management calculates and assigns a monetary value to a Service and service components to allow costs to be spread across the organization.

The monetary value is derived by calculating the operating and capital costs, which include the investments made in hardware and software license costs, annual maintenance fees for hardware and software and personnel resources used to support and maintain the services, across the number of Users.

Tightly integrated throughout the application, Financial Management derives hierarchical costs from within the CMDB and considers Org Units as Cost Centers, while extending functionality built into the Service Item costs calculator. Used as a forecasting tool, it provides the service organization with information about pricing a service, by detailing the contributing cost factors and applying concepts such as cost splitting across services that leverage common infrastructure. Stored in the CMDB, the central repository, organizations can generate their own reports and all data is broken down by cost center, ready to be reassembled in real time for the User interface to assist with business planning and the budgeting processes.

Financial Management is not a standalone process in this service management application, but a component of Service Portfolio Management and the Service Catalog, with direct access being found within the Service Item Costs tab of any Service Category Item.

To access this functionality, Users must be assigned the Finance Role, in the Information tab of their User information screen. For detailed information about using Financial Management, refer to Financial Management Applied.

6.16.7 Service Portfolio Management

The Service Portfolio details the commitments and investments made by a Service Provider to its customers and within the markets they service. It contains current contractual obligations, services under development and continuing service improvement programs.

The Portfolio represents all engaged resources and resources being released during the different phases of the Service Lifecycle. It includes the Service Pipeline that consists of services under development and the Service Catalog, which includes customer visible active services that have the potential to recover costs or earn profits for the Services provided.

Service Portfolio Management is a dynamic and ongoing process that covers the following stages in work practices:

- Define list services, confirm business cases and verify portfolio data
- Analyze maximize portfolio value, set priorities
- Approve finalize portfolio proposal, authorize services and resources
- Charter communicate decision and allocate resources.

The service management system includes ITIL certified Service Portfolio Management, with Service Pipeline and Service Catalog functionality, as part of the base product. Combining the Service Item Lifecycle stored in the embedded CMDB, with assigned Service Level Agreements and service Teams, the system enables organizations to manage their Service Offerings from strategy to design through to transition, operation and retirement.

Service Portfolio Management in the system allows organizations to create Service Categories that include business-related attributes, such as business processes supported, business owners and business users. This ensures organizations record all relevant information against the Service.

Organizations can further optimize their Service Portfolio Management by tracking and reporting on Service Offering and Service Component usage, Service Level performance and costs. This includes the functionality to calculate break-even points (B.E.P.) for offering a service, which allows support organizations to charge the appropriate cost for offering the service to their internal or external customers. This is achieved by recording of financial attributes against services, including service cost, service charges and service revenue.

The service management system SPM capability also allows organizations to easily record the technical aspects of services such as applications used, IT Owners, supporting services, dependent services, SLAs and OLAs, Contracts and Agreements by defining Relationship Maps.

Working with SPM

Using the SPM functionality, organizations can create and publish all Service Offerings throughout the Service Lifecycle, which include the phases of:

- 1. Services under development, that are being considered but are not yet released (Service Pipeline)
- 2. Services in production/operation, that would be included in the Service Catalog
- 3. Retired/discontinued Service Offerings.

Service Items are recorded against the different stages of the Lifecycle and easily accessed through the filter views, available within the Configuration>Items screen:

Filter	Relationship
All Items	All Items stored within the CMDB, regardless of the assigned Lifecycle State.
Hardware Catalog	All Items that use the Hardware Category Template stored within the CMDB, regardless of the assigned Lifecycle State.
Service Catalog	All Items that use the Service Category Template stored within the CMDB that are in an active Lifecycle State.
Service Pipeline	All Items that use the Service Category Template stored within the CMDB that are assigned a Pre-production Lifecycle State.
Service Portfolio	All Items that use the Service Category Template stored within the CMDB, regardless of the assigned Lifecycle State.
Software Catalog	All Items that use the Software Category Template stored within the CMDB, regardless of the assigned Lifecycle State.

Consistent with the Lifecycle model used for all Configuration Items (CIs) throughout the application, Service CIs are created using the Service Category template, with a series of Lifecycle States customized to represent the different phases a CI can transition through (i.e., inception, design, implementation, operation or retirement phases).

Within each State of the Service Lifecycle, the relevant Users included in the Service Portfolio Team can be assigned, allowing them to manage Service Item information when the Item is allocated the State.

Using the SPM Functionality

The following outlines how the SPM Team define, analyze, authorize and charter a Service Offering in the system. This is achieved as a Supervisor User with Configuration and Service Level Management privileges enabled.

To begin:

1. Create the Service Portfolio Team in the Service > Teams tab, and assign all the relevant Users

Then within the Group tab, create the work and management groups associated with the Service Lifecycle and assign the relevant Users. (See: SPM Teams.)

2. Within the Configuration>Categories Tab, edit the existing Service Category

Duplicate and edit an existing Service Category or click New, to create a new Service Category. (See: Categories.)

3. In Edit mode, click the Service Category option and assign the Service Portfolio Team

Set field labels for the Item, including any relevant business related attributes. Save and move to the Lifecycle tab.

4. Edit the default Lifecycle, to include all the applicable States defined by the SPM Team

Some example States include requirements, defined, analyzed, approved, chartered, designed, developed, built, test, released, operational, retired. (See: Categories Lifecycle.)

- 5. Within each stage of the Lifecycle define the following State options:
- 6. _____

	Description
Status	
Name	Enter the name of the Lifecycle State.
Active State	Stipulates if the Item is Active, when assigned this State.
Offline State	Only visible when Active is set to No. Indicates if the Item is offline and inactive. Items moved into states where this is enabled, have availability metrics calculated.
Pre-production State	Only visible for Service Category lifecycle states. Items that use this state are available within the Service Pipeline filter view of the Configuration>Items tab.
Entry Point	An Entry Point is used to indicate the start of a Lifecycle. To make the state a Workflow Entry Point, select the Entry Point checkbox.
	As the Entry Point is the first state, the Previous States field will be removed.
Exit Point	Select whether the state will be an Exit Point. An Exit Point is used to indicate the end of a Lifecycle.

	Description
Service Team Group	Assign a Group within the associated Service Portfolio Team, to allow these Users to edit the Item details when it is assigned this stage of the Category Lifecycle.

- 7. Continue to configure the Category like any other Category and Save
- Within the Configuration > Types tab, create an Item Type using the Service Category (See: Item Types.)
- 9. Assign one or more SLAs

Multiple SLAs can be associated with the Type template as it allows the User to calculate the service costs for all Items that apply the Type template but that may need to be associated with different SLAs.

10. Move to the Costs tab and complete known details

Within the Costs tab, organizations can calculate the Break-Even Point (BEP) of a Service based on forecasting the number of Customers of that Service. This enables the organization to account for the per calendar month price of the Service, which is used to calculate the ongoing revenue figures within the Item Costs tab that uses the Service Type template.

Information Cl	assific	ations	Items	Reques	s	Costs		Fields	Re	sponses
									Er	nail Ser
Forcast Costs						Actual Costs				
Capital	1200	00				Capital	\$0.00			
Recovery	5	years				Recurring	0.0 p.c.m			
Recurring	400	p.c.m								
Services										
	SLA	Cost (p.a.)	Current Users	Forecast Users	B.E.P.	Price (p.c.m)				
	Gold	\$2,000.00	17	100	\$172.67	173				
						Delete		Cancel		Save

11.

Forecast	Costs	

Capital	Enter the proposed total cost to be invested in the Service.
Recovery	Complete the field with the expected number of years designated to recover the costs of implementing the Service.
Recurring	Enter the proposed ongoing cost, on a per calendar month basis, for offering the Service.

Forecast Costs	
Services	Using the details entered in the Costs fields and the cost per annum of the SLA, enter the forecast number of Customers/Users to calculate the break even point (B.E.P) of the Service. Using the auto- calculated B.E.P., enter a per calendar month Price for the Service to recover costs. This figure is used in the Service Item Costs tab to calculate the ongoing Revenue figures.
Actual Costs	
Capital	Content for this field is derived from the Cost field within then Costs tab of the Item created using this Type.
Recurring	Content for this field is derived from the Monthly Cost field within the Costs tab of the Item created using this Type.

12. Create the Item and assign the relevant State, which in turn associates the relevant Users included in the SPM Team.

Assign the Users and/or Org Units to set the number of affected Users, and set the appropriate SLA.

The Costs tab of a Service Item includes information related to the financial and contractual details associated with the Item. The information more specifically related to the Service Item is recorded in the Charges and Revenue fields, as this information allows service and support organizations to calculate the costs of offering a service and if appropriate, recover the costs from the customers.

Charges	
Price (per user)	Draws the figure from the Service Item Type Costs tab and displays this as a daily amount. This figure is then multiplied with the number of Users/ Customers assigned to the Item, to calculate the Revenue costs.
Cost (per user)	Draws the figure from the Inherited Costs and displays this as a daily amount. This figure is then multiplied with the number of Users/Customers assigned to the Item, to calculate the actual Costs.
Revenue	
Month to Date	Uses the Charges figure, multiplied with the number or Users and days of month passed, to calculate the month to date figure.
Previous Month	A reference figure for an average monthly cost, based on the previous months revenue for the Service Item.
Availability	

13.

Charges

Avg Repair Time	Entries displayed here are automatically calculated based on the average length of time an Item is offline.
Avg Time To Fail	Figures displayed here are automatically calculated based on the average time between an Item being moved to an offline State.

6.16.8 Financial Management Applied

Financial Management can be used to forecast the costs for offering a Service and can also calculate the amount that should be charged to the Service Users in order to recover costs.

To use Financial Management as a tool for calculating the financial value of the underpinning infrastructure that provisions services and to qualify operational forecasts, you need to:

- Provide the User access to the functionality
- Enable SLA costing functionality
- Enable the functionality within the Category
- Create the Item Type and enter forecast figures
- Create the Service Item, which automatically applies the forecast figures
- Build the relationships between the Service and underpinning hardware and software, to associate actual costs
- Use Finance Reports to compare forecast costs with actual costs, and chargeback costs to the Org. Unit Users.

NOTE: To complete the following outlined process, a User must have Supervisor and Administrator access.

Enable Financial Management Access

To access the Financial Management functionality a User must be assigned the Finance Role within the Information tab of their User Information screen. Assigning the Role within a system synchronized with an authentication server, the system administrator needs to include the User in the Finance group in LDAP.

To switch on the functionality for an existing User in a system not synched with an LDAP server, as a Supervisor:

- 1. Select the User > Users tab
- 2. Click on the Name hyperlink of the relevant User
- 3. Select Edit
- 4. Tick the Finance box in the Roles field

Roles	Supervisor Administrator Customer	Technicia Manager	□ Partner ✓ Finance

5. Click Save.

The User can now access the Finance Management functionality within the consolidated User view.

Enable Functionality

Financial information can only be calculated for Service Items that are created using a Category, which has the Service Category option enabled. By enabling this option, the Costs Tab is made available with the Item Type where baseline figures can be recorded.

As a User with the Finance Role:

- 1. Move to the Configuration > Categories tab
- 2. Click the Service Item Category hyperlink

Item Categories
New Delete Duplicate
🖾 Item Category
Audio Visual
BYOD Devices
BYOD DevicesCopy32
Documentation
Hardware
Mot e Devices This Service Category is where users define
Netviorkinon-tangible items that are generall accessed by a large number customers. For Example, Email, or
Peri her hternet are common services typically provided by the Service Desk.
Prin ars & Scanners
Service
1 - 10 of 12 Results 🚽 🔿

3. Verify the Service Category option is checked

Item Categories	
Category	Lifecycle Classifications
Edit	Duplicate
Category	
Name	Service
\rightarrow	Service Category

4. Click Done.

Charging for Service

If the service and support organization is to charge Organizational Units, that is companies or departments, for the ongoing service they provide the costing functionality for the Service Level Agreements (SLAs) needs to be enabled, and the Prices for the different Agreements need to be assigned to each of the SLAs.

As a User with Administrator access, within the Setup screen:

- 1. Select Setup > Billing
- 2. Click Yes for the Display SLA Prices option

Billing	
Setup	
Billing Module	
Enable Purchase Orders	Yes No
Enable Contracts	Yes No
Enable Invoices	Yes No
Display SLA Prices	Yes No
Global Settings	
Currency	United States Dollar
	Save

3. Click Save

The Annual, Request and Hourly Price fields are now made available within an SLA Editor screen.

- 4. Switch to the User Portal to access the Supervisor view
- 5. Move to the Service > SLAs tab
- 6. Select the Name hyperlink for an SLA

The SLA Editor is now displayed.

- 7. Click Edit
- 8. Enter the relevant figure in the Annual Price field

The Annual Price entered should be the per User, per year price for the SLA.

SLA Editor			
Details	Targets Blackouts	Workflows	
Duplicate			
Details		Internal Costs	-
Name	SLA	Annual Cost	1500.00
On Breach	cc Team Leader	Request Cost	1400.00
Pause on Holiday		Hourly Cost	100.00
Customer Timezone		Customer Prices	

9. Click Save and Done.

Repeat the process for all relevant SLAs configured in the system. For detailed information about configuring SLAs see Creating SLAs.

Forecast Service Costs

When proposing a Service as part of Service Portfolio Management, the investment and ongoing costs for offering a Service can be calculated. This information can then be used to project potential revenue for offering the Service and allow consumers of the Service to be charged for accessing the Service based on User access. For an example, we will use the Service Desk Service, considering the investment in hardware and software plus the ongoing SLA expense for offering the Service, when forecasting costs.

To forecast the cost of offering a Service, as a Financial User:

- 1. Move to the Configuration > Types tab
- Select the default Service Desk Item Type
 If creating a new Item Type refer to Creating Item Types.
- 3. Click Edit
- 4. Search and select the relevant SLAs for the Supported Levels field This is where SLAs that have Prices are associated with them.

Service Level			
Default Level		•	
Supported Levels	SLA (\$1,500.00) p.a.)	
Find SLA (Name)			
Find SLA (Name)			80
SLA	<u>à</u>		
Platinum			
SLA			
Warranty			
1 - 3 of 3 F	tesults		

5. Move to the Costs Tab

The Capital, Recovery and Recurring cost fields are now displayed.

6. Complete the following fields:

Enter the sum total to be invested in hardware and software infrastructure that will underpin the Service.
Complete the field with the number of years designated to recover the costs of implementing the Service.
Enter the ongoing cost, on a per calendar month basis, for offering the Service. For example, annual support and maintenance agreement costs charged on a monthly basis.
Using the details entered in the Costs fields and the cost per annum of the SLA, enter the forecast number of Customers/Users to calculate the break even point (B.E.P) of the Service. Using the auto-calculated B.E.P., enter a per calendar month Price for the Service to recover costs. This figure is used in the Service Item Costs tab to calculate the ongoing Revenue figures.
NOTE: If an SLA with an Internal Cost is assigned to the Type, the B.E.P will be the SLA cost divided by 12 plus the cost of recovering the Capital expenditure over the number of years defined for the Capital to be recovered. For example, where the SLA cost is \$240 for the year, the B.E.P will never be less than \$20 per month.

Costs	
Capital	Content for this field is derived from the Cost field within the Costs tab of the Item created using this Type.
Recurring	Content for this field is derived from the Monthly Cost field within the Costs tab of the Item created using this Type.

8. Enter a figure in the Forecast Users field for each SLA

(The displayed SLAs are based on the ones assigned to the Supported Levels field in the Information tab.)

If multiple SLAs are assigned to the Item Type and Forecast Users are assigned to each SLA, the Costs are divided by the total number of Forecast Users as calculated across the SLAs to arrive at the B.E.P. The system does not differentiate between who the Users are, it only accounts for the number of Users

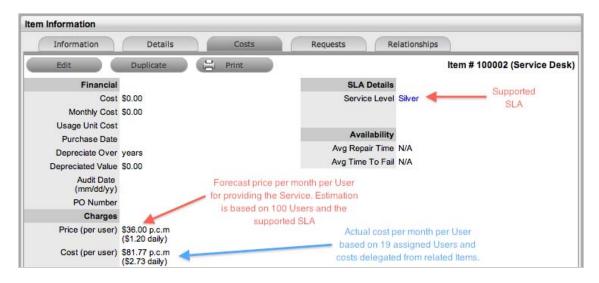
9. Enter the Price for the Service to recover costs in a per calendar month

Use the calculated Break Even Point (B.E.P.) to set the Price. This figure is then used as a comparison figure for the Actual cost in the Service Item Costs Tab.

Information	lassificat	ions	Items	Requests		Costs		Fields	Response
									Service
Forecast Costs						Actual Costs			
Capital	18000	.00				Capital	\$0.00		
Recovery	5	years				Recurring	0.0 p.c.m		
Recurring	250.0	p.c.m							
Services									
	SLA	Cost (p.a.)	Current Users	Forecast Users	B.E.P.	Price (p.c.m)			
	Bronze	\$300.00	1	70	\$30.50	32.00			
	Gold	\$400.00	1	10	\$38.83	40.00			
	Silver	\$350.00	1	20	\$34.67	36.00			
					- C.	Delete		Cancel	Save

10. Click Save and Done.

The forecasted Price per User is now available within the Charges Price field on the Costs tab of the Service Item.



Calculate Actual Service Costs

To calculate the actual Service Costs, the relationships of the infrastructure Items that underpin the Service need to be mapped within the Relationships tab. Working with these relationships, it should be noted that the Service is considered a Child Item within the hierarchy.

To build the relationship map refer to the Relationships Tab.

After the underpinning infrastructure and its associated costs are related to the Service Item, the following financial information is available in the Service Item Costs tab:

Financial	Description
Cost	The financial investment made to purchase the Item. This figure is also used when the Delegate Costs is enabled for allocating costs across related Items.
	NOTE: Typically for Service Items, the infrastructure costs would be zero as this would be derived from the associated Parent Items.
Monthly Cost	The amount invested on a monthly basis to maintain the running of an Item. This figure is also used when the Delegate Costs option is enabled for allocating costs across related Items.
Usage Unit Cost	This is used as a reference field, where the User can enter base unit cost, for example per Megabyte data charge, which can be used for calculating costs in custom reports.
Purchase Date	The date the Item was purchased.
Depreciate Over	Enter the number of years the Item is to be depreciated over, if required.

Financial	Description
Depreciated Value	The system calculates the current value of the Item based on the Purchase Date and the number of years the Item is to be Depreciated Over.
Audit Date	Set the date the Item is next to be audited.
PO Number	If Purchase Orders are enabled for the system, the field is visible and automatically populated with the PO number generated by a User within the Finance>Purchase Orders tab, when the Item order was recorded in the system.
Charges	
Price (per user)	Draws the figure from the Service Item Type Costs tab and displays this as a daily amount. This figure is then multiplied with the number of Users/Customers assigned to the Item, to calculate the forecasted Revenue.
Cost (per user)	Draws the figure from the Inherited Costs and displays this as a daily amount. This figure is then multiplied with the number of Users/Customers assigned to the Item, to calculate the actual Costs.
Revenue	
Month to Date	Uses the Charges Price figure, multiplied by the number of Users and days of month passed, to calculate the month to date figure.
Previous Month	A reference figure for an average monthly revenue figure, based on the previous month's revenue for the Service Item.
Costs	
Month to Date	Uses the Charges Cost figure, multiplied by the number of Users and days of month passed, to calculate the month to date Cost.
Previous Month	A reference figure for an average monthly cost, based on the previous month's cost for the Service Item.
Inherited Costs	
Inherited Capital	Total infrastructure costs of parent CI's that directly contribute to the cost of the Service Item. This figure is derived from all the Cost fields within the Item Information>Costs tab of related Parent Items.
Inherited Ongoing	Running costs of all associated Items that enable the Service Item to continue to function. This figure is derived from all the Monthly Cost fields within the Item Information>Costs tab of related Parent Items.

Financial	Description
Delegate Costs	To enable cost delegation across the relationship map allowing associated Items to inherit the costs of the current CI, select Yes. This will take the figures from the Cost and Monthly Cost fields for the Item and spread them across related Child Items.
	Define the technique to be used to evaluate the cost split:
	<i>Child Count</i> :Costs are split by percentage based on the number of child CI's the costs are being delegated across.
	<i>User Count</i> :Costs are split proportionally based on the number of users of the child CI's the costs are being delegated across.
	<i>Custom %</i> : Allows for the % cost to be assigned within the relationship. To do this, within the Service Item Relationships tab, all Items within the defined relationship map must have the same setting and then the Cost Split % can be set within the table included on the Relationships tab by clicking on the 0.00 link. Note, if a N/A link is visible within the Cost Split % column, then that Item does not have the Custom % option selected.
Availability	
Avg Repair Time	Entries displayed here are automatically calculated based on the average length of time an Item is offline.
Avg Time To Fail	Figures displayed here are automatically calculated based on the average time between an Item being moved to an offline State.

Inherited Costs

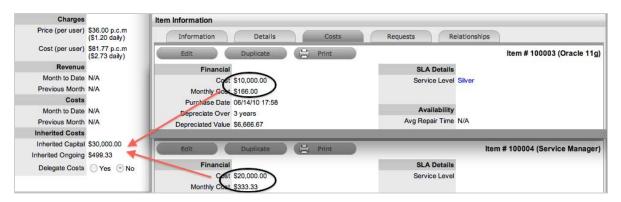
Charging Organizational Units appropriately for a Service can be based on figures derived from the Items associated with the Service. For example, the Service Desk is hosted on a server and uses service management software. The costs associated with the server and software are combined to make the Inherited Capital cost, while any ongoing support contracts would be assigned as an Inherited Ongoing cost on a per month basis.



To derive the amounts from the related infrastructure and populate the fields within the Child Item, the Delegate Costs field must be enabled within the Inherited Costs for the Parent Items and the technique for deriving the cost must be assigned to the CI.

Information					
Information	Details	Costs	Requests Re	elationships	
Duplicate (🖹 Print				Item # 100003 (Oracle 11g
Financial		Cost to be applied	SLA Details		
Cost	10000.00	across related Items	Service Level	Silver	(*)
Monthly Cost	166.00				
Purchase Date	06/14/11 17:58		Availability		
		i and a second sec	Avg Repair Time	N/A	
Depreciate Over		years	Avg Time To Fail	N/A	
Depreciated Value	\$0.00				
Audit Date (mm/dd/yy)		(2)			
PO Number					
Inherited Costs					
Inherited Capital	\$20,000.00				
Inherited Ongoing	\$333.33	System configurati			
Delegate Costs		* to related	ditems		
(Delegate costs	O TES O NO				
Strategy	User Count	+			
			Delete	Ca	ncel Save
			Delete	Ca	Juve

In the Service Desk example, for the server hosting the Service Desk Service it would be appropriate to delegate costs applying the Child Count technique as multiple software/service CIs may be associated with the server. While, the User Count would be used to delegate costs to the service management software.



After the relationships have been defined for the Service and the Inherited Costs applied, the Finance User can verify the forecast numbers by comparing the Inherited Costs within the Item>Costs tab, to the Capital and Recurring Costs recorded in the Item Types Costs tab. Any disparity between the figures should alert the Finance User as to whether the Service is within budget and if relevant, making or costing money.

Finance Reports

The Finance User can access the following Reports within the Reports>Finance tab, to assist with verifying the cost and revenue generated by a Service, and monitoring how a Service is used.

Finance Reports	Description
Service Cost	The cost of providing a Service is calculated nightly and saved, along with the revenue figures, in the ITEM_REVENUE table.
	The cost of the Service includes all the cost factors and saves a figure each night, per service, per cost centre. This is the sum of these for a Service.
Service Revenue	The price charged for providing a Service is calculated nightly and saved, along with the cost figures in the ITEM_REVENUE table.
	The price charge for the Service is determined in the cost calculator configured in the Service Item Type.
Total Service Cost	The cost of providing a Service is calculated nightly and saved, along with the revenue figures, in the ITEM_REVENUE table.
	The cost of a Service includes all the cost factors and saves a figure each night, per service, per cost centre. This is the sum of these across all Services.
Total Service Revenue	The price charged for providing all Services is calculated nightly and saved, along with the cost figures in the ITEM_REVENUE table.
	The price charge for the Service is determined in the cost calculator configured in the Service Item Types associated with all Services.
Service Consumption	Uses the total number of consumers of a service as recorded in the ITEM_REVENUE table, which is broken down by cost centre,
	to illustrate how the number of consumers of a service varies over time.

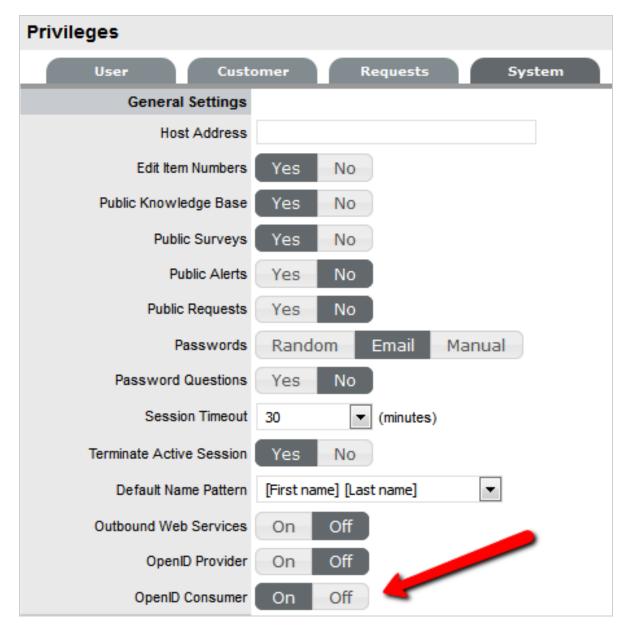
6.17 ZENWorks

- Section 6.17.1, "Enabling OpenID for Authentication," on page 681
- Section 6.17.2, "Configuring the ZENworks Primary Server Details in ZENworks Service Desk," on page 682
- Section 6.17.3, "Automatic Configuration," on page 682
- Section 6.17.4, "Manual Configuration," on page 682
- Section 6.17.5, "Reset Button," on page 683

Within the ZENWorks tab, the Service Desk can be configured to work seamlessly with the Configuration Management tool. In the first instance, this is achieved by using ZENWorks as the OpenID Provider for authenticating Service Desk Users and Customers. On a day to day basis, the ability to use the Remote Control and Bundle Management capability for the Configuration tool within a request, increases the efficiency of Service Desk Users when managing their workload.

6.17.1 Enabling OpenID for Authentication

To enable authentication of Service Desk Users through ZENWorks, the OpenID Consumer option within Setup>Privileges>System must first be enabled.



Once enabled, configure the ZENworks location details and OpenID information within the AMIE>ZENWorks tab.

6.17.2 Configuring the ZENworks Primary Server Details in ZENworks Service Desk

To allow ZENworks Service Desk users to use ZENworks Software, Hardware, Bundle, and Remote Management features, or to login to ZENworks Control Center from the ZENworks Service Desk User Interface, you must configure the details of ZENworks Primary Server.

You can use one of the following options:

NOTE: Automatic Configuration is applicable for ZENworks 11.2.3 and higher versions only. For earlier versions of ZENworks, use the Manual Configuration option.

6.17.3 Automatic Configuration

- 1 In the ZENworks Service Desk user interface, click Setup > ZENworks.
- 2 In the General tab, specify the ZENworks Server address.
- **3** Select Automatic Configuration to automatically exchange certificates.
- **4** In the Additional Details for "Getting Started" mode section, specify ZENworks Administrator user credentials to retrieve LDAP and AMIE configuration details.

NOTE:

- The ZENworks Service Desk and ZENworks certificates need to be exchanged to complete the registration process.
- Ensure that the system time is in sync with ZENworks Service Desk and ZENworks Server.

6.17.4 Manual Configuration

- 1 In the ZENworks Service Desk user interface, click Setup > ZENworks.
- 2 In the General tab, specify the ZENworks Server address.
- 3 Select Manual Configuration.
- 4 Click Download Certificate and store it on the local drive.

Open ID Settings

- 1 In the ZENworks Service Desk user interface, click Setup > ZENworks.
- 2 Click OpenId tab.

works Setup		
General	OpenSid	
OpenID Provider		
Name	ZEhivorks	
loan	0	
URL	https://164.99.95.82/zenworks/?requestHandler=ZENOpenIOHandler	

3 Read the information displayed in the OpenID Provider panel:

The OpenID Provider panel is displayed only if authentication of Service Desk users through ZENworks has already been enabled. For more information, see Using ZENworks with ZENworks Service Desk .

Name: Displays ZENworks as the OpenID Provider name.

Icon: Displays the ZENworks icon that will be available on the ZENworks Service Desk login page for the Service Desk customers and users accessing Service Desk.

URL: This field is initially blank. It display the OpenID Provider URL that is automatically generated based on the address specified in the **Server Address** option when you click **Save**.

4 Click Save.

The URL option in the OpenID Provider panel displays the OpenID Provider URL that is automatically generated based on the address specified in the Server Address option.

6.17.5 Reset Button

Select the Reset button for the system to generate a new certificate that allows the service desk to communicate with Zenworks. When selected, the system will display an information message providing the location details for downloading the new certificate.

To complete the ZENWorks integration:

- Import Customer and User details from the eDirectory authentication server
- Import Items using the AMIE and the ZENWorks 11.

When validating account details of Users and Customers accessing the Service Desk, the system will query two locations for unique identifiers:

- Details in the GUID field imported from eDirectory for the Customer or User
- Customer's or User's email address.

6.18 **ZENworks Import**

Within the ZENworks CMDB import screen, multiple asset management datasources can be synchronized with the service management system.

- Section 6.18.1, "Importing Items from ZENworks," on page 684
- Section 6.18.2, "AMIE Import Alert," on page 690
- Section 6.18.3, "AMIE XML Migrate," on page 691
- Section 6.18.4, "Database Post-migration Steps," on page 691

ZENworks Setup	
ZENworks Import	Hardware Software Bundle
Edit	
ZENworks Server	
Identifier	ZENworksServer
Database	
Туре	Sybase Anywhere
Host	10.71.68.240
Port	2638
Name	zenworks_nsd
Username	zenadmin
Schema	
Catalog	zenworks_nsd
Item Ownership	
Default Customer	Unassigned (Import Items as Global)
Synchronization	
Auto Create New Items	No
Frequency	Never
Last Completed	04/17/15 00:04
Item Categories	🗹 Hardware 🛛 🗹 Software 📝 Bundle
	Analyse Import Delete Done

6.18.1 Importing Items from ZENworks

To import Items from ZENworks, do the following:

- 1. Select Setup > ZENworks > ZENworks Import.
- 2. Click New.

The Server, Database, Ownership, Synchronization, and Item categories fields appear.

NOTE: If you have migrated ZENworks from one database provider to another database provider, then ensure that you review the database details and make the necessary changes.

ZENworks Import							
Importing Items fro from ZENworks	m ZENworks	requires you	to provide a	ZENworks details,	Test and then se	elect Analyse to get t	the lis
ZENworks Server							
Identifier	10.71.64.46_0	dborci epm bir.	novell.com				
Database							
Туре	Oracle			~			
Host	10.71.64.46						
Port	1521						
Name	pdborcl.epm.l	bir.novell.com					
Username	ZSDCUST1						
Password							
	ZSDCUST1						
Item Ownership	25000511						
Import Ownership	Yes No						
Default Customer	OSystem User		is Global)				
Ignore Domain Info	0						
Synchronization							
Auto Create New Items	Yes No						
Frequency	Never 👻						
Last Completed	06/02/22 02 37						
			Select Item	Categories to Impo	ort from ZENworks	6	
Item Categories	Hardware	Software	Bundle	Mobile Device			
Import Device Groups	S						

Configuration

Identifier	An identifying label that is used in List Views to inform Users regarding the Source of an Item.	
Server and Database		
Туре	Select the ZENworks database Type.	
Host	Enter the ZENworks Host name or IP Address.	
Port	Enter the Port Number for the database server.	
Name	Enter the Database name.	
Username	Complete User name details.	
Password	Complete Password details.	
Schema	Enter the Schema type. For more information, see Importing Assets from ZENworks Configuration Management into ZENworks Service Desk in ZENworks Service Desk System Planning, Deployment, and Best Practices Guide.	
Catalog	Enter the Catalog name. Typically this would be the name of the Database. For more information, see Importing Assets from ZENworks Configuration Management into ZENworks Service Desk in ZENworks Service Desk System Planning, Deployment, and Best Practices Guide.	

Configuration

Configuration	
Notification (Only If 'Control CMS via RFC' is enabled)	
Email RFC's to Tech?	Select this option if technicians are to be notified of generated change requests.
Ownership	
Unassigned (Import Items as Global)	Select this option if Items are to be globally owned.
System User	Select this option to assign imported Items to the System User.
Selected Customer	Select this option to assign imported Items to a specific Customer.
Ignore Domain Info	Tick this field if the system is to disregard domain details attached to the User Name inside the AMIE source when assigning an owner.
Synchronization	
Auto Create New Items	This option is only visible when a single AMIE source is defined within AMIE. When enabled, Items are automatically created upon synchronization, relative to the Control CMS via RFC setting within the Setup>Privileges>Requests tab.
	If disabled, a snapshot of imported asset information is listed within the Super>Configuration>AMIE Snapshots tab.
Frequency	Choose a synchronization interval. This can be left as Never if the database will be synchronized manually.
	NOTE: Synchronization times will vary depending on the connection speed with the external service and the database size.
Item Categories	
Hardware	Select this option if you want to import the hardware details of ZENworks devices.
Software	Select this option if you want to import the software details of ZENworks devices.
Bundle	Select this option if you want to import the ZENworks bundle details.
Mobile Device	Select this option if you want to import the mobile device details from ZENworks.
Import Device Groups	Select this option if you want to import the device groups from ZENworks.

3. Click Test, to initiate a connection and test the setup.

If a connection is not made, a system message will advise which part of the configuration was not successful.

4. Click Save.

ZENworks Import	
Edit	
ZENworks Server	
Identifier	ZENworksServer
Database	
Туре	Sybase Anywhere
Host	10.71.68.240
Port	2638
Name	zenworks_nsd
Username	zenadmin
Schema	
Catalog	zenworks_nsd
Item Ownership	
Default Customer	Unassigned (Import Items as Global)
Synchronization	
Auto Create New Items	No
Frequency	Never
Item Categories	Ardware Software Software

5. Click Analyze.

The System starts analyzing information from ZENworks datasource. This might take several minutes depending on size of datasource and network connection.

Infor	mation							
Started	Analysing information from ZENworks.							
ZENworks Setup								
ZENworks Import								
Analysis in Progr	ess. On success you will see new tabs for the selected Item Categories that provides you option to o import							
ZENworks Serve	er							
Identifi	er ZENworksServer							
Databas	e							
Тур	e Sybase Anywhere							
Ho	st 10.71.68.240							
Po	rt 2638							
Nan	e zenworks_nsd							
Usernan	e zenadmin							
Schen	a							
Catal	g zenworks_nsd							
Item Ownersh	p							
Default Custom	er Unassigned (Import Items as Global)							
Synchronizatio	n (In Progress) (Analysis In Progress)							
Auto Create New Iten	s No							
Frequence	y Never							
Item Categorie	s 🖉 Hardware 🛛 Software 📝 Bundle							
	Done							

After the analysis is complete, the system shall generate an alert with the analysis result.

ZENworks Setup			
General	ZENworks Import		
Nev	AMIE XML Migrate		
Server		Identifier	Last Updated
10.71.68.240		ZENworksServer	
		1 - 1 of 1 Results	
		(

On successful analysis, you will see tabs for selected Item Categories from Hardware, Software, Bundles and Mobile Device.

ZENworks Import	Hardware Software Bundle
Edit	
ZENworks Server	
Identifier	ZENworksServer
Database	
Туре	Sybase Anywhere
Host	10.71.68.240
Port	2638
Name	zenworks_nsd
Username	zenadmin
Schema	
Catalog	zenworks_nsd
Item Ownership	
Default Customer	Unassigned (Import Items as Global)
Synchronization	
Auto Create New Items	No
Frequency	Never
Last Completed	04/17/15 00:04
Item Categories	Hardware Software Bundle

6. In each of the item category tabs (Hardware, Software, Bundles, Mobile Device), expand the parent tree.

NOTE: In the Hardware category tab, now you can import and vide Inventoried-only devices.

- 7. Click each item. The details are displayed on the right -hand pane.
- 8. Review the information, and select each individual device folders, groups, software type, and Bundles that you want to import from ZENworks.

NOTE: Selecting the parent folder doesn't select individual items in the folder or subfolders

- 9. Specify the Teams for the selected items.
- 10. Specify if you want the item number to be generated by the system or manually. This option becomes available only if the Edit Item number is set to Yes in Setup >Privileges >System.
- 11. Select the default state for the imported items.

NOTE: It applies only to the newly imported items. Modifying the default state does not change the state of already imported items.

- 12. For software and bundles, select the Create Relationship with Hardware check box to create relationships after import.
- 13. Click Apply in each of the Item category tab to save you selections.

Based on your requirement, you can enable Item reconciliation to avoid creation of duplicate items. For more information see section Item Reconciliation in Configuration Categories.

NOTE: If there is more than one configuration to the same ZENworks or an older configuration is deleted and a new configuration is created pointing to the same ZENworks, then you might end up with duplicate items, if reconciliation is not enabled or reconciliation criteria is not met.

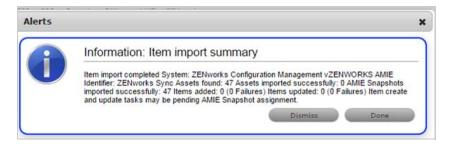
14. Navigate to ZENworks Import tab and click **Import** to start importing the selected items from ZENworks into the CMDB.

Infc	ormation					
Starte	Started Analysing information from ZENworks.					
ZENworks Setup						
ZENworks Import						
Analysis in Progre select the items to	ss. On success you will see new tabs for the selected Item Categories that provides you option to import					
ZENworks Server						
Identifier	10.71.64.46_pdborcl.epm.blr.novell.com					
Database						
Type Oracle						
Host	t 10.71.64.46					
Por	Port 1521					
Name	Name pdborcl.epm.bir.novell.com					
Username	e ZSDCUST1					
Schema	ZSDCUST1					
Item Ownership	2					
Import Ownership	Yes					
Default Customer	Unassigned (Import Items as Global)					
Synchronization	(In Progress) (Analysis In Progress)					
Auto Create New Items	Yes					
Frequency	/ Never					
Last Completed	06/02/22 02:37					
Item Categories	Hardware Software Bundle Mobile Device					
Import Device Groups						
	Done					

The system shows import progress message. The import might take several minutes depending on the number of items selected for import and network connection.

Information Started Importing the selected items from ZENworks. Based on the number of items, this may take several minutes. System will generate an Alert on completion					
ZENworks Setup					
ZENworks Import	Hardware Software Bundle				
ZENworks Server					
Identifier	ZENworksServer				
Database					
Туре	Sybase Anywhere				
Host	10.71.68.240				
Port 2638					
Name	zenworks_nsd				
Username	zenadmin				
Schema					
Catalog	zenworks_nsd				
Item Ownership					
Default Customer	Unassigned (Import Items as Global)				
Synchronization	(In Progress)				
Auto Create New Items	No				
Frequency	Never				
Last Completed	04/17/15 00:04				
Item Categories	Hardware Software Bundle				
	Done				

After the Import is complete, an alert appears providing import results.



6.18.2 AMIE Import Alert

Alerts are generated for the Admin User after the AMIE synch is completed. The import alert summary displays:

- the details of the system that the synchronization was run against, as it is possible to import from multiple sources.
- the number of assets found in the datasource.
- the number of assets automatically created if a single datasource is configured in AMIE and the auto-create option is enabled; or if the Auto-Create option is disabled and Items already exists in the system, the number of Items that were updated.
- the number of AMIE Snapshots successfully imported, with a breakdown of new Items added and number of Items updated.

6.18.3 AMIE XML Migrate

The AMIE XML Migrate option that is available within the ZENworks Import tab enables you to migrate the existing or older, System provided AMIE XML format to the ZENworks UI format.

	<u> ၇</u> User	👿 R	leports	ዮ My A	ccount	ø	Setup			🛆 СМБ			
mail	Custom Fields	Privileges	Customize	Localization	Licenses	Database	LDAP	PSS	SSO	Reports	Billing	AMIE	ZENwork
ZEN	lworks Setup)											
	General	Ope	nId Z	ENworks Imp	ort A	pp Store							
Q	Select a config	uration (sin <u>c</u>	jle select) yo	u wish to migr	ate to the Z	ENworks In	nport UI	forma	t and c	lick Migra	te.		
	Migrate											- 1	
	Server			Identifier		Server Typ	е			Last	Updated		
				0-0	of 0 Results	1							

Migrating the configuration from XML

To migrate the system provided AMIE XML files to ZENworks UI format:

- 1 Select an XML AMIE configuration you wish to migrate from the displayed list.
- 2 Click Migrate



NOTE: You can only migrate the System provided AMIE configurations (XML files). You cannot migrate the customized configurations to the ZENworks UI format. It is recommended that you continue to import items from your customized configurations.

You cannot start a migrate if the selected configuration is importing items because it might cause a conflict with the data that is being imported. You can start migrating the configuration only after the Item import is complete.

NOTE: Service desk now uses service name of the Oracle database configured with ZENworks. While using the Oracle database, if you are unable to connect to ZENworks, see ZENworks Core Admin for the service name.

6.18.4 Database Post-migration Steps

If you have migrated ZENworks database from one database provider to another provider, then ensure that you perform the following steps:

Review the database connection details and update the required changes. Ensure all the entries
and connection details are updated based on the new database details. Ensure that you match
the exact character cases, as some details might be case sensitive.

- Test the updated connection.
- After successfully connecting to the database, save the changes.
- Restart ZENworks Service Desk service.
- Even if the connection is successful, the import might fail as you need to restart the ZENworks Service Desk service.
- After restarting the service, continue with the item import.

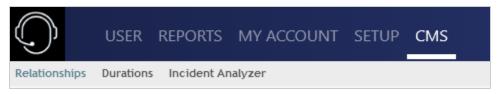
IMPORTANT: Ensure that you do not delete the existing configuration and recreate a new configuration, as this might lead to duplicate items in ZENworks Service Desk.

6.19 Item Reconciliation during item import from ZENworks

Based on your requirement, you can enable Item reconciliation to avoid the creation of duplicate items or to reconcile with an existing item based on certain criteria. For more information see section. For more information see section Item Reconciliation in Configuration Categories.

NOTE: If there is more than one configuration to the same ZENworks or an older configuration is deleted and a new configuration is created pointing to the same ZENworks, then you might end up with duplicate items, if reconciliation is not enabled or reconciliation criteria is not met.

Configuration Management System



Within the ITIL framework the Configuration Management System (CMS) includes the Knowledge Management Database (KMDB) and the Configuration Management Database (CMDB). Within the LiveTime CMS tab, the Administrator can define elements that are used within the CMDB, such as the terminology used to describe Item relationships and durations of warranties used by Service Contracts.

It also allows the Administrator to define parameters within Incident Management to implement proactive Problem Management.

NOTE: The CMS tab applies to Service Manager only.

7.1 Relationships

Relationships can be defined between Configuration Items of the CMDB to create a Service Catalog. The Catalog allows Users to assess the impact of a request on the organization. To build a Catalog, the Relationships are defined within the properties of a Configuration Item within Configuration Management.

To assist with the building of a CMDB, the Administrator refines the list of Relationship Types available for the Supervisor.

7.1.1 Edit or Create Relationship Types

To edit or create a Relationship Type:

1. Select CMS>Relationships

The Relationship Types screen appears.

Relationship Types			
New			
Relationship		<u>à</u>	Class
Deployed in / Host of			Hierarchical
Deployed in / Hosts web application			Hierarchical
Has connection / Connected to			Connection
Host of / Installed on			Hierarchical
Installed on OS / OS hosts application			Hierarchical
Manages Data / Uses Database			Connection
Parent of / Child of			Hierarchical
Parent of / Child of (Inherit Cost)			Hierarchical
Parent of / Child of (Inherit Owner)			Hierarchical
Provides Service / Provided By			Connection
	1 - 10 of 13 Results	10 🖌	

2. To edit, click on the Relationship, or, to create a Relationship click New

Relationship Types	
Relationship	
Class	Connection 💌
Name	
Labels	
Service Oriented (Parent - Child)	
Component Oriented (Child - Parent)	
Inherit Parents Ownership	Yes No
Inherit Cost	Yes No
	Cancel Delete Save

- 3. Select the Relationship Class
- 4. Enter a Name for the relationship
- 5. Define the Service Oriented and Component Oriented labels
- 6. _

Relationship Types

Relationship

Relationship Types	
Class	Select either a Hierarchical or Connection Class.
	<i>Hierarchical</i> describes ownership, such as a Parent/Child relationship, for example, an operating system hosting an application.
	<i>Connection</i> defines a connection association. For example, an application accessing a database.
Name	Enter a Name that reflects the nature of the relationship for both Component or Service views. For example, component view Name = Deployed in/Host of.
Labels	Each Relationship between Items can be described from a Service Oriented or Component Oriented view.
Service Oriented (Parent-Child)	A Service Oriented view describes relationships top-down with the Service at the top. For example, the Service Email Provision, would be at the top level with relationships between Configuration Items described, ending at an individual User.
Component Oriented (Child-Parent)	A Component Oriented view starts from the bottom up, with the Service being the top layer.
Inherit Parent Ownership	When this option is enabled, Child Items that use this Relationship Type will inherit the Parent Item's owners.
Inherit Cost	When this option is enabled, Child Items that use this Relationship Type will inherit the costs associated with Parent Item.

7. Click Save. Sample Relationship Labels

6	2		
۲,		•	

Relationship Class	Relationship Name	Current Item	Relationship Label	Related Item
Service	Host of/Installed on	Application	is host of	Server
Component	Host of/Installed on	Application	is installed on	Server

7.1.2 Delete a Relationship Type

To remove an entry on the Relationship Type list:

1. Select CMS>Relationships

The Relationship Types screen appears.

- 2. Click on the Relationship link that is to be deleted
- 3. Select the Delete button

A warning message is displayed.

Relationship Types	
Relationship	
Class	Hierarchical
Name	Host of / Installed on
Labels	
Service Oriented (Parent - Child)	is host of
Component Oriented (Child - Parent)	is installed on
Inherit Parents Ownership	Yes No
Inherit Cost	Yes No
	Cancel Delete Save

4. Click OK in the warning message.

7.2 Durations

NOTE: Note, this menu option is only visible when Purchase Orders is enabled in Admin>Setup>Billing.

Note, within the *Help Desk* application this option is found within Supervisor>Service tab.

The Durations menu is used to configure periods of time used for warranty and lease durations. They appear as a drop-down list when a default Warranty Service Level Agreement (SLA) is assigned to an Item Type. The duration selected determines the length of the warranty period.

Within Purchase Orders, the Lease Durations appear when a PO is created for leased Items, to specify the lease period.

Durations	
New	
Interval Name	🔳 Duration (days) 🔺
30 days	30
90 days	90
6 months	183
12 months	365
2 years	730
3 years	1095
4 years	1460
5 years	1825
1 - 8 of 8 Results	

Within the Duration menu, a number of default durations exist. These can be edited or new durations created.

7.2.1 Creating or editing durations

To create or edit durations:

1. Select CMS > Durations

(In the Help Desk application as a Supervisor select the Service > Durations tab)

2. Select the New button to create a new duration

Or, click on the duration Interval Name to edit an existing duration. The individual Duration screen appears.

Durations		
Duration		
Interval Name		
Length In Days		
	Cancel	Save

- 3. Enter the required interval name
- 4. Define the time period for the Duration
- 5. Click Save.

7.2.2 Delete a Duration

To remove an entry on the Durations list:

1. Select CMS>Durations

The Durations screen appears.

- 2. Click on the Duration link that is to be deleted
- 3. Select the Delete button

A warning message is displayed.

Durations				
Duration				
Interval Name	3 years			
Length In Days	1095			
		Delete	Cancel	Save

4. Click OK in the warning message.

7.3 Incident Analyzer

NOTE: Relevant to Organizations with system implementations using Problem Management.

The Incident Analyzer menu is used to set parameters to provide proactive Incident and Problem analysis. The Analysis Engine automates inter-process escalation between the Incident and Problem Processes. It automatically groups similar Incidents into a Problem based on the criteria set in the Incident Analyzer tab. Also, the Analysis Engine is able to retrieve Problems relevant to an Incident and present them for consideration.

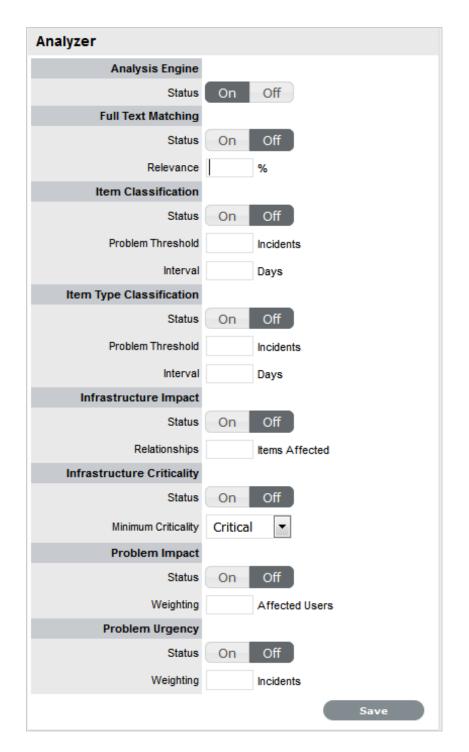
A Problem is used to manage a number of Incidents related to one cause or Incidents associated with highly critical Items. Problems are managed through the Problem Management Process.

7.3.1 Configuring the Incident Analyzer

To configure the Incident Analyzer:

- 1. Select CMS>Incident Analyzer
- 2. Click On to enable the Analysis Engine

The Analyzer screen expands.



- 3. Enable the relevant Analyzer functions
- 4. Define the relevant parameters for one or all of the following options:

5.

Field	Description
Full Text Matching	Searches for matching text between Incidents and Problems. We recommend the Relevance percentage be set between 75-80%.
Item Classification	Searches Incidents based on matching the Item and Problem Classifications. If the number of Incidents entered in the Problem Threshold is mer within the Time Interval entered, a new Problem will be created.
Item Type Classification	Searches by matching Item Type and Problem Classification of Incidents. If the matching numbe of incidents in the Problem Threshold for the Time Interval is met, a new Problem is created.
	NOTE: Note: We expect either Item/Classification or Item Type/Classification would be used exclusively.
Infrastructure Impact	Automatically escalates an Incident to a Problem i the number of related Items affected by the Incident is equal to or greater than the value entered here.
Infrastructure Criticality	Automatically escalates an Incident to a Problem an Incident's Item criticality is equal to or greater than the value selected here. Select the criticality level from the drop-down list.
Problem Impact	Used to calculate the relevant impact rating that i assigned to an auto-created Problem.
	Multiplying by 4 the number entered in the Weighting field will give the required number of Affected Users for the problem to have the highes Problem Impact of Severe.
	The system calculates the number of Affected Users on the number of owners attached to an Item.
	An integer between 1-6 for the Problem Weightin is recommended.

Field	Description
Problem Urgency	Used to calculate the relevant urgency rating that is assigned to an auto-created Problem.
	Applied when a new Problem is created or an Incident is added to an existing Problem.
	Multiply by 4 the number entered in the Weighting field to get the required number of current Incidents or Problems for the rating of Urgent to be applied.
	An integer between 1-4 for Problem Urgency is recommended.

6. Click Save.



Troubleshooting

This section provide solutions to the problems you might encounter while using the ZENworks Service Desk.

- Section 8.1, "Java Heap Space error in ZENworks Service Desk," on page 703
- Section 8.2, "Delay in displaying the Database Connection Lost message," on page 703
- Section 8.3, "No License Installed error message is displayed while accessing ZENworks Service Desk," on page 703

8.1 Java Heap Space error in ZENworks Service Desk

ZENworks Service Desk is not responding with the java.lang.OutOfMemoryError: Java heap space error.

Workaround: Increase the Maximum Heap Memory.

For more information, see theConfiguring the Maximum Heap Memory Size for ZENworks Service Desk section.

8.2 Delay in displaying the Database Connection Lost message

During upgrade, in case the Database connection is lost or if the database goes down by accident, there may be a slight delay in displaying the connection lost status to the user.

Always ensure that the database and server are up and running. It is recommended not to restart the database while upgrade is in progress.

8.3 No License Installed error message is displayed while accessing ZENworks Service Desk

If the database is down for more than 24 hours, then you try to access ZENworks Service Desk classic portal, No license installed error message is displayed.

Workaround: Start the database server, and then restart the Service Desk services.



A.1 Configuring the Maximum Heap Memory Size for ZENworks Service Desk

To configure the maximum heap memory size for ZENworks Service Desk, perform the following:

- 1. Stop the Service Desk service.
- 2. Edit the following line in the servicedesk.server (Location: /etc/init.d):
 - CATALINA_OPTS="-XX:MaxMetaspaceSize=256m -Xms256m -Xmx2048m -Djava.awt.headless=true"

Change the Maximum memory pool(Xmx) from -Xmx2048m to -Xmx<desired memory in MB>m. For example, -Xmx4096m to configure 4GB.

• Optionally, you can also increase initial memory pool (Xms) from –Xms256m to -Xms512m for additional performance benefit.

NOTE: Ensure that you reserve enough RAM for the operating system and other processes such as PostgreSQL (in case of internal database) and Appliance web console.

3. Save the changes and start the Service Desk service.

NOTE: If you are upgrading ZENworks Service Desk, then the changes made to the servicedesk.server file will be lost. Ensure that you replicate the same changes in the file after upgrading Service Desk.

A.2 Embedded Support Form

To create requests directly from a website, add the following script, with an amendment to the Protocol and BaseHost details, to the target Web Site Page Source:

<script type="text/javascript" defer="defer">

var protocol = "https://"; // use "http://" if not running ssl

var baseHost = "servicedesk.mycompany.com"; // service desk hostname

document.write(unescape("%3Cscript src='' + protocol + baseHost + "/LiveTime/js/livetime.js'
type='text/javascript'%3E%3C/script%3E"));

</script>

In the above script, adjust the details for the protocol and baseHost, to those of the server hosting the support system.

The following functionality is now accessible from your designated Web Site:

KNOWLEDGE REPORTS FINANCE 🗹			🖈 🗶 😯 🕩
			[Setup] [Customer]
		Search Knowledge Base	
			۰ 🖬 🗘 🗘
¢ CLASSIFICATION	ITEM TYPE ALAST UPDATED	♦ STATUS ♦ VIEWS	♦ MEAN RATING
			& *
	Click the ico	on to create request directly in the	e system

Request form displayed for completion:

О ном	e requests	OPERATIONS	CHANGE	CONFIGURATION	STORE SETUP	SERVICE USE	R KNOWLEDGE	REPORTS FINANCE	ß	
Request										Wed,
CREATE NEW REC	QUEST									
ADD CUSTOMERS*						1	REPORTED BY			SELECT A REQUEST TYPE
SEARCH CUSTOMER	85					Q	SEARCH REPORTED B	34	٩	For Rems Incident For Knowledge Base (Service Request) Quick Call
REQUEST ADDITION	AL DETAILS									
SUBJECT										
Paragraph	√ Arial	✓ 10pt	v F F	• •	5 M 2 M					
DESCRIPTION®				-						
										0 WORDS #
To add attachments. elick here. or Drag and Drop files. (Max size 500 MB per file)										

A.3 Email Polling and Request Creation via Email

The Email Polling feature automatically manages incoming support requests via email, helping organizations to respond quickly and efficiently to Customer inquiries and minimizes time-consuming data entry tasks for Technicians.

A.3.1 Email Polling

By itself, the Email Polling feature acts as an auto-responder.

To turn on Email Polling:

- 1. Log in as Administrator
- 2. Select Setup>Email
- 3. Enter the Server Details

These are the system accounts for the incoming and outgoing mail servers.

- 4. Within the Setup Tab, select Yes for Email Polling
- 5. Complete the Interval field

Specify (in minutes) how long the system should wait between automated scans of the system email account. (At minimum this can be set to 5 minutes.) At the specified interval, the system will automatically scan the inbox of the system email address for messages.

6. Define remaining General, Requests and Notes Settings:

General Settings	
Email Polling	Enable Email Polling to allow the application to check for new email received in the mailbox on the incoming server defined within the Server tab.
	For new messages that are received, the system will send a message to the sender acknowledging their message. System generated messages are customized within the Setup>Email>Templates tab.
	NOTE: This option will be locked down if the Create via Email option is selected.
Interval	Enter the time period the system will use to check the incoming server for any messages sent to the support system.
Include Banner	Select Yes to include a banner within emails sent from the system.
	The banner will be derived from: Setup>Customize>Setup>Public Banner.
Email Errors	When enabled, details of any system errors occurring while the application is running will be sent to the development lab.

General Settings

Сору Туре	For emails sent within requests, define if the Technician is to be copied or blind copied the correspondence.
Requests	
Create/Update via Email	Select this option to enable requests to be created from emails addressed to the support system and Team addresses aliased on the email server.
	NOTE: Email Polling will be locked down to Yes when this option is selected and the Accept Anonymous option is displayed.
Accept Anonymous	When enabled, the system will create requests from emails received from email addresses that do not exist in the application's database. (Refer below for more information regarding this setting.)
Notify Alternate Team	When enabled, and if there is more than one Team created for a Process, within the Summary tab of a request the Alternate Team field is displayed. Members of the Alternate Team will be notified relative to the settings defined for the Current Team, and for New Notes, if Technicians is selected in the New Notes screen.
Self Mail	When set to Yes, new Notes created by a Technician or Customer are also sent to them when they save the Note.
Include Request Status	When enabled, the system will include the request Status within the Email Subject line of any correspondence sent from the system, regarding a request.
Include Request Priority	When enabled, the system will include the request Priority within the Email Subject line of any correspondence sent from the system, regarding a request.
Include Request Subject	When enabled, the system will include the content from the Subject line of a request within the Email Subject line of any correspondence sent from the system, regarding a request.
Notes	
Parse Instance Prefix	The Instance prefix is used to process email correspondence from multiple instances. If this is not required, set the option to No.

General Settings	
Default Recipients	Within the new Notes editor of requests, the default email settings can be defined for the recipient groups. Define the groups who are more likely to be sent every New Note created related to a request.
Default Locale	Set the default language file to be used for email correspondence. The option set is applied to the Email Locale field in the Customer and User Information screens and can adjusted on a per account basis, as required.
	NOTE: The content for automated emails sent from the system for languages other than English, is defined within the Localization>Content tab.

- 7. Click Save
- 8. Customize the content of emails automatically sent by the system within the Templates tab

This includes Handshaking (CloseRequest), No Account and Signature Templates. The message prefix used by the system to recognize correspondence related to requests stored in the system can also be edited within the Prefix template.

If the request creation feature is turned off (i.e., the Create Incidents checkbox is not ticked), a reply is automatically emailed to the sender. The email informs the sender that requests are not received via email, and if they want to log a request they are advised to do so via the Customer Portal. The content of the Responder message can be configured by the Administrator in Setup> Email>Templates.

NOTE: Important: Before using the Email Polling feature, ensure that the main system email accounts inbox is empty. Otherwise, any messages in the inbox will be acted upon either with an auto-response message being bounced back to the sender or the system will attempt to create requests for the messages. The action will depend on the application's settings.

Please take special caution if the main system email account is an IMAP account. Unlike POP accounts, messages generally are not removed from an IMAP server's inbox after they are read. This means that failure to clear out the inbox prior to using the Email Polling feature could result in autoresponses being sent to (or requests being created for) every message in the inbox.

A.3.2 Creating requests via Email

If the Create Incidents feature is turned on, the system will attempt to either create a new request or update an existing one each time a message arrives in the system inbox.

To activate this feature:

- 1. Tick the Create/Update via Email checkbox under Setup>Email>Setup
- 2. If all Team members are to receive a copy of the notification that a new request has been received, set the Notify Alternate Team option within the Information tab of the Team.

To create a request via email, a Customer with a pre-existing account can simply send an email message describing the issue to the appropriate Team email address (refer to Setting Up Team Aliases, below).

When a new message arrives, the system identifies the Customer by matching the sender's email address against the addresses of Customers registered in the database. If it fails to find a match, an email is bounced back to the sender notifying them that they must create an account before creating requests via email. The content of this message is configured in the No Account field under Setup>Email>Messages.

If a matching Customer account is found, and the address that the email was sent to belongs to an existing Team, a request is created in the system. The body of the email becomes the main text of the request description. Any attachments included with the email will also be attached to the request. The new request is assigned a priority type of Medium, and uses the default Classification - General.

If the Customer only owns a single Item, this Item is automatically assigned to the request and the standard system SLA check of Customer>OrgUnit>Item will be run to verify which SLA should be assigned to the request.

If the Customer owns multiple Items, the system can automatically assign the relevant Item upon request creation if the Customer prefixes the email subject with 'Item #' followed by the Item identification number as recorded in the CMDB. If the Customer has an account in the system and is assigned as an owner of the Item, the system will refer to Relationships and Skills configured in the CMDB, resulting in the request being routed to the most relevant Technician for the job.

NOTE: If you want to create a request against a specific item through an email, the email subject must be prefixed with 'Item #' followed by the Item identification number as recorded in the CMDB in the following format:

1. If Item identification include spaces, use: Item # <item_identification>

Example: Item # <ZENworks Agent>

2. If the item identification does not include spaces, use: Item # <item_identification> or
 Item # item_identification

Example: Item # 102345 or Item # <102345>

In the case where the "Item #" is not included in the email subject line, and if the matching Customer is assigned zero or multiple Items, the new request uses the Unknown Item and the system default SLA. It is assigned to the Team or Technician who support the Unknown Item. When the Item is changed from Unknown to a specific Item, the Team or Technician assigned may change based on the Team configured to support the Item. The SLA may also be automatically reset by the system as it applies the SLA derivation logic of Customer>OrgUnit>Item to assign the relevant SLA.

Once the request has been created, an entry is added to the request Audit Trail, stating the request was generated via email. The Customer and the assigned Technician then receive emails notifying them of the request number and details.

A.3.3 Restricted Incoming Email Addresses and Subjects

Incoming email addresses that cannot be processed.

Sender should not have any of the following:

- 1. postmaster@
- 2. daemon@
- 3. noreply@
- 4. donotreply@

Also Sender should not start with 'no-reply'.

Subject should not contain any of the following:

- 1. undeliver
- 2. returned mail
- 3. mail error
- 4. autoreply
- 5. autoresponse
- 6. no such user found

A.3.4 Monitoring Tools and Request Creation

To automatically create requests from emails sent by monitoring tools, the monitoring tool must be created as a Customer within the system. The email address used by the monitoring tool can be the system default support address or a specific Team address. (See: Setting up Team Aliases below for sending to a Team address.) Once the request is created, an entry is added to the request Audit Trail, stating the request was generated via email. The monitoring tool Customer account and the assigned Technician receive emails notifying them of the request number and details.

If the monitoring tool Customer account is assigned to a single Item, this Item is automatically associated with the request and the standard system SLA check of Customer>OrgUnit>Item will be run to verify which SLA should be assigned to the request.

If the monitoring tool Customer account is associated with multiple Items within the CMDB, the system can automatically assign a specific Item upon request creation if the monitoring tool email prefixes the email subject with 'Item #' followed by the Item identification number as recorded in the CMDB. In this situation, if multiple Customers own the Item and if the request is to be associated with a different Customer after the request is created, Technicians can update the Customer details to move it from the monitoring tool Customer account within the Customer tab of the request Summary Tab.

In the case where the "Item #" is not included in the email subject line, and if the matching monitoring tool Customer account is assigned zero or multiple Items, the new request uses the Unknown Item and the system default SLA. It is assigned to the Team or Technician who support the Unknown Item. When the Item is changed from Unknown to a specific Item, the Team or Technician assigned may change based on the Team configured to support the Item. The SLA may also be automatically reset by the system as it applies the SLA derivation logic of Customer>OrgUnit>Item to assign the relevant SLA.

A.3.5 Adding Notes via Email

Managing requests via email is handled by the application sending its initial email with the subject line prefixed by the 'Incident #' or in the case of Change Management, prefixing the RFC subject line with 'Change Request #', followed by a series of numbers that make up the individual request identification number. Customers simply reply to this email and their correspondence is assigned to the relevant request, and any attachments are also uploaded to their request. Technicians can also reply to these emails to update the request, if convenient.

When the Note has been created, an entry is added to the request Audit Trail, indicating that a Note was added via email. The Customer and assigned Technician are then sent emails alerting them to the creation of a new Note.

A.3.6 Setting Up Team Aliases

For an incoming message to result in the successful creation of a request, it must be addressed either to the main system email address or to an email account that is an alias for the main system account and assigned to an existing Incident, Change or Service Request Team.

For example, if your main system email address is support@yourcompany.com and you want to set up three Teams, Team A, Team B and Team C, those three Teams should use email addresses that are aliases for support@yourcompany.com.

- teamA@yourcompany.com should forward messages to support@yourcompany.com
- teamB@yourcompany.com should forward messages to support@yourcompany.com
- teamC@yourcompany.com should forward messages to support@yourcompany.com.

NOTE: Consult the documentation that came with your mail server for information on setting up email aliases.

Using this technique, any message that is sent to teamA@yourcompany.com, teamB@yourcompany.com or teamC@yourcompany.com is automatically forwarded to support@yourcompany.com. The Email Polling mechanism then picks up those messages and responds accordingly. The resulting request is assigned to a Technician within the Team the message was addressed to.

An alternate configuration would involve setting a single Team's email address to the main system address, which by-passes the need for aliases but does not allow the system to funnel requests to specific Teams.

A.3.7 Troubleshooting

If you have trouble setting up or using email polling and creation, keep the following tips in mind:

- For the request creation feature to work properly, both the Email Polling and Create/Update via Email options must be selected under the Admin > Setup > Email > Setup tab
- Only emails sent to the main system address or to an alias that is currently in use by an existing Team can be accepted

- All pertinent information regarding the main system email address and the incoming and outgoing mail servers must be completed correctly
- Ensure the Customer sending the email has a valid email address within the system.

NOTE: Only Incidents, Change and Service Requests can be created via email. If a User attempts to send an email to a Problem Team, a reply email will be forwarded to them informing the User that the email must be sent to an Incident, Change or Service Request Team, for a request to be logged with the system.

A.4 Web Services

The Web Services Interface enables third party applications to interact directly with the service management application in a secure and controlled fashion. The interface is based on the SOAP standard for Web Services. For more information about SOAP Web Services, please see: http://www.w3.org/standards/webofservices/.

The system's Web Services Interface is intended for developers to use to extend the application's accessibility and requires a basic familiarity with Java. For detailed information and instructions, please refer ZENworks Service Desk Developer Resources.

A.5 Internationalization

Internationalization is the process of designing an application so that it can be adapted to various languages and regions without engineering changes. Sometimes the term internationalization is abbreviated as i18n, because there are 18 letters between the first "i" and the last "n."

The system is an internationalized program that has the following characteristics:

- The addition of localized data that allows the same executable to run worldwide
- Textual elements, such as status messages and the GUI component labels, are not hard-coded in the program. Instead they are stored outside the source code and retrieved dynamically
- Support for new languages does not require re-compilation
- Culturally-dependent data, such as dates and currencies, appear in formats that conform to the end user's region and language
- The application can be localized quickly.

Localization is the process of adapting software for a specific region or language by adding localespecific components and translating text. The term localization is often abbreviated as I10n, because there are 10 letters between the "I" and the "n."

A.5.1 Internationalization

The support system internationalized framework is very intuitive and flexible, which allows Users to localize it for a particular language and character encoding schema.

The primary task of Users performing localization of the application is translating the user interface elements in the external text file - LiveTime.properties.

The following steps are a guide through the localization process. This example assumes French localization of the application and uses the ISO-8859-1 character set.

1. Ensure the Desktop's Operating System has the appropriate character set installed

The localization file and rendering requires the character set to be available for data entry and data presentation.

2. Ensure the RDBMS is created using the appropriate character set

This is required so that French data entry can be successfully saved and retrieved from the database.

3. Specify the correct character set encoding for the system

Edit the 'Properties' file (/CONTAINER_APPS_PATH>/LiveTime/WEB-INF/LiveTime.woa/ Contents/Resources folder) and specify the character set to use for presentation to the end user. This character set is sent to the end users to control presentation in both the user interface and outbound email.

4. Edit the UI strings in the external properties file

The 'LiveTime.properties' file (/CONTAINER_APPS_PATH>/LiveTime/WEB-INF/LiveTime.woa/ Contents/Resources folder) stores the externalized user interface content. This file is stored in plain text, the default (English) is encoded using the ISO-8859-1 character set. Alternative versions of this file can be created in any text editor that allows the file to be saved in the necessary character set.

The first step in creating a local version of this file is to save a copy of it, representing the appropriate language. For this example of the French translation, there is no need to worry about the file encoding, simply save a copy of the file called 'livetime_fr.properties'

A.5.2 Simple Messages

The copy of this file consists of a collection of name-value pairs, each are broken up into clusters representing user interface components.

For example:

ClassName.greetings=Hello

ClassName.farewell=Goodbye

ClassName.inquiry=How are you?

The 'name' or 'key' section (ClassName.greetings) of these strings is of little relevance to the end user except to note that if they are changed, the system is not able to look them up.

The 'value' component of these pairs (Hello) represents the corresponding user interface value. The (French) translator can safely edit these values and they will appear within the system.

ClassName.greetings=Bonjour.

ClassName.farewell=Au revoir.

ClassName.inquiry=Comment allez-vous?

A.5.3 Compound Messages

Compound messages contain variable data i.e., data that the support system substitutes into a message at run time. For example, given the message 'Hello Sunshine', the string Sunshine may vary. This message is difficult to translate because the position of the string in the sentence is not the same in all languages, or alternatively the value may need to be generated by the application based on some business logic.

Where this substitution is necessary, the localized strings have a set of braces containing an id number (a substitution variable). These blocks are replaced at run time by the system and are identified by its presence. The localized version of a given string must contain the same number of substitution variables.

For example:

ClassName.helloSunshine=hello {0}

This will render as "hello sunshine", however we could modify this message to read "sunshine, hello" by doing this:

ClassName.helloSunshine={0}, hello

1. Edit the Locale Definitions file

The 'LiveTimeLocales.xml' file (/Resource folder) defines the language code and charset used in order to process the strings defined in the external properties file.

Typically, this is the charset used when the external properties file is saved.

By default the following language locale is selected:

<LOCALE language="en" country="" charset="ISO-8859-1"/>

To enable the French external properties file to behave correctly, comment the above line and uncomment the following line:

<LOCALE language="fr" country="" charset="ISO-8859-1"/>

For convenience, many values are already supplied in this file so it is just a matter of uncommenting the necessary entry.

If an entry for the locale language is non-existent, then define it in the file by supplying the language code, country code, and charset, as illustrated in the above examples.

1. File Names.

The names of the localized files do follow a standard. In the French example, livetime_fr.properties was the resulting file name. The 'fr' component of this name comes from iso 639-1.

A.6 AMIE Import

The Item Import menu allows Configuration Items to be imported from an external asset management database using Database Mapping (AMIE) and via a .CSV file.

Database Mapping with the AMIE option can be used with common asset management systems, including:

- Absolute Manage 6.0
- Centennial Discovery 2005, 9
- Express Software Manager 9.0, 9.5
- HP Universal CMDB 8.0
- LANDesk 8.5, 9.0, 9.0 (Hardware)
- + LANrev 5.1
- LiveTime Discovery 2005, 2007
- LOGINventory 4.3
- Manage Engine Desktop Central 7.0
- Microsoft SMS Version 2003 SP1
- Microsoft SCCM 2007
- Spiceworks 4.0, 5.0
- ZENworks Asset Management 6.5+
- ZENworks Configuration Management 11.1, 11.1 (Hardware).

If Items have been managed externally, adding them to a .CSV file allows them to be easily imported into the support system.

See Item Import:

- AMIE
- CSV File.