# **HP IT Operations Compliance**

Software Version: 1.0

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# **Administration Guide**

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# **Contents**

Chapter 1 ITOC Administration	9
View Administration in ITOC	9
Chapter 2 Users	11
View Users in ITOC	11
Chapter 3 Roles and Permissions	13
Roles	13
ITOC Roles and Responsibilities	13
Permissions	16
ITOC Permissions	16
Chapter 4 Notifications	20
Notifications Overview	20
Subscribers	20
View Notifications	20
Edit Notifications	21
Configure SMTP for Notifications	22
Notification Types	22
Event-Driven Types	22
Business Service Revision Commented On	23
Business Service Revision Promoted to Production	23
Business Service Revision Promoted to Production, where Business Service is Associated with an SoA	
Business Service was Obsoleted	23
Control Revision Commented On	23
Control Revision Promoted to Production	23
Control Revision Promoted to Production, where Control used in a Policy Rule	23

	Control Revision Promoted to Production, where Control used in a Policy Rule, and Policy is associated with an SoA	
	Control was Obsoleted	. 24
	Maintenance Window was Deleted and Auto-removed from SoA	24
	Object Revision Approved	24
	Object Revision Submitted for My Approval	24
	Object Revision I Submitted was Rejected	. 24
	Policy Revision Commented On	. 24
	Policy Revision Promoted to Production	24
	Policy Revision Promoted to Production, where Policy is Associated with an SoA	. 24
	Policy Revision Promoted to Production, which Invalidated an SoA Exception	. 25
	Policy was Obsoleted	.25
	Resource was Obsoleted	. 25
	Statement of Applicability Revision Commented On	25
	Statement of Applicability Revision Promoted to Production	. 25
	Statement of Applicability Revision was Obsoleted	. 25
F	Reminder Types	25
	Draft Revision In Draft State for N Days	26
	Object Revision Has Been Awaiting My Approval	.26
	Object Revision I Submitted Has Not Been Approved	. 26
	Policy Effective Date Is Coming Up Soon	. 26
	Production SoA With Expired Exception(s)	. 26
	SoA Revision Has Exception(s) Expiring Soon	.26
C	Compliance Status	26
	Business Service Meeting MSLO Changed	.26
	Business Service Meeting RSLO Changed	. 27
	Overall Business Service Compliance Status Changed	. 27
	Overall Policy Compliance Status Changed	27
	Remediation Job Completed	27

	Scan Job Completed	27
Cł	napter 5 Maintenance Windows	28
	Maintenance Windows Overview	28
	Maintenance Window Work Prioritization	28
	View Maintenance Windows	29
	Create a New Maintenance Window	29
	Manage Maintenance Windows	32
	Maintenance Windows Details	32
	To edit maintenance windows properties	33
	To delete a maintenance window	33
	Maintenance Windows Jobs	34
	Maintenance Windows Where Used	35
Cł	napter 6 Business Configuration	37
	Compliance	39
	Workflow	39
	Business ID Prefix	39
Cł	napter 7 System Configuration	40
Cł	napter 8 Organizations	43
	Organizations Overview	43
	Public Provider Organizations	43
	Consumer Organizations	44
	Log Into the Organizations Administration UI	44
	Create and Manage Organizations	44
	Create a New Organization	45
	Configure and Manage Authentication	48
	Customize a Consumer Organization	51
	Application Labeling	52
	Add Groups and Associate Business Roles	53
	Edit Groups	54

Delete Associated Roles	54
Remove Groups	54
Disable Seeded Users	54
Business Roles	56
Delete an Organization	56

# **Chapter 1** ITOC Administration

This guide provides instructions and reference for ITOC administrator tasks, such as:

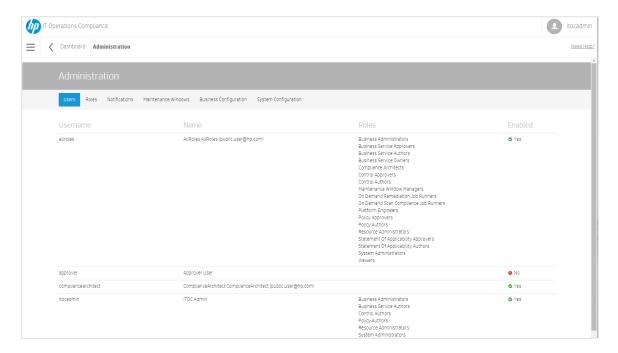
- View user profiles (see Users).
- View roles and view permissions (see Roles and Permissions).
- Manage notifications (see Notifications).
- Create, edit, and delete maintenance windows (see Maintenance Windows).
- View and edit business configuration details (see Business Configuration).
- View and edit system configuration details (see System Configuration).
- Create and edit organizations using Lightweight Directory Access Protocol (LDAP) integration (see Organizations).
- How to use the Organizations Administration User Interface (UI) (see Organizations).

## **View Administration in ITOC**

The **Administration** view shows information about ITOC users, roles, notifications, business configuration, system configuration, and maintenance windows.

At ITOC installation, a single public provider organization is set up by default. The seeded administrator (or **itocadmin**) user has the CSA\_ADMINISTRATION role and can log into the Organizations Administration UI. After the administrator integrates ITOC with LDAP, he can assign a group he has created to the administrator role, so users in that group can access the Organizations Administration UI. For more information, see Organizations.

To see the **Administration** section in the ITOC UI, a user needs to have either the **Business Administrators** or **System Administrators** role.



#### Users with the **Business Administrators** role can see:

- Users View only for the logged-in user's organization.
- Roles View only.
- Notifications Editable only by a user logged in as public organization. These settings
  apply to all organizations.
- Maintenance Windows View logged-in user's organization and public organization maintenance windows. Create, edit, and delete are available only for the logged-in user's organization.
- Business Configuration Editable and set per organization.

## Users with the **System Administrators** role can see:

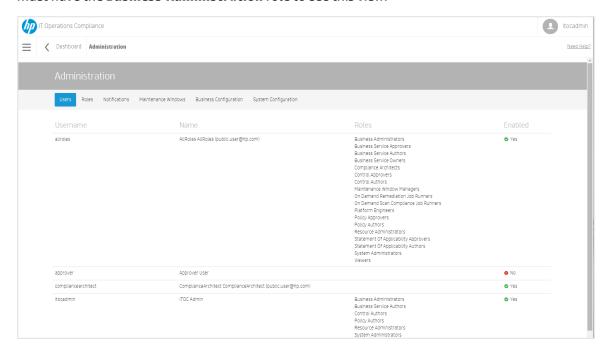
• **System Configuration** - Editable only by a user logged in as a public organization. These settings apply to all organizations.

# Chapter 2 Users

ITOC provides a role-based security model that allows only authorized users to perform specific operations. The ITOC administrator user, **itocadmin**, is one of a set of OOTB ITOC seeded users described in this chapter.

# **View Users in ITOC**

From the **Users** view, you can see all users in the system and their user names and roles. You must have the **Business Administration** role to see this view.



- Username The user name.
- Name Name of the user and user email address.
- Roles The roles a user has in ITOC.
- Enabled Whether or not this user is enabled in the system.

The following table lists ITOC seeded users.

- The password for seeded users is "hpitoc" (except itocadmin, for which you set the password during installation).
- After integrating with LDAP, you can disable seeded users (see Disable Seeded Users).

# **ITOC Seeded Users**

Username	Name	Roles
approver	Approver User	<ul><li>Business services approvers</li><li>Control approvers</li></ul>
		<ul><li>Policy approvers</li><li>Statement of applicability (SoA) approvers</li></ul>
compliancearchitect	Compliance Archi- tect	Compliance architects
itocadmin	ITOC Administrator	<ul> <li>Business administrators</li> <li>Business service authors</li> <li>Control authors</li> <li>CSA_ADMINISTRATION (visible only in the Organizations Administration UI)</li> <li>Policy authors</li> <li>Resource administrators</li> <li>System administrators</li> </ul>
jobrunner	Job Runner	<ul> <li>On-demand scan compliance job runners</li> <li>On-demand remediation job runners</li> </ul>
platformengineer	Platform Engineer	Platform engineers
serviceowner	Service Owner	Business service owners
viewer	Viewer User	Viewers

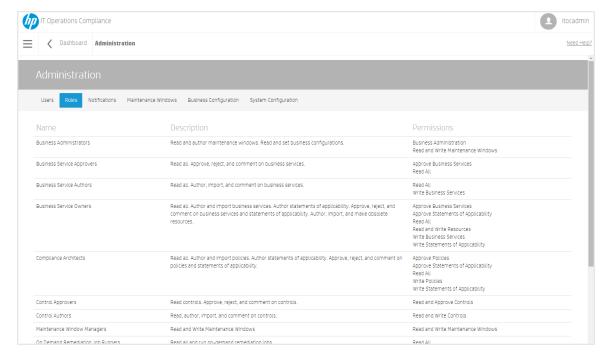
For information about integrating with LDAP and creating organizations and users, see <a href="Organ-izations">Organ-izations</a> Overview.htm.

# **Chapter 3** Roles and Permissions

This chapter describes ITOC roles and permissions.

# **Roles**

A role has a name, description, and a set of permissions. Specified permissions enable the user with that role to perform tasks; for example, permissions allow compliance architects to manage ITOC policies and business service owners to manage business services and create SoAs. Roles cannot be added, edited, or deleted.



The following table shows ITOC roles, and the permissions and responsibilities of each role. A user must have the business administration role to log into ITOC to view role details.

#### **ITOC Roles and Responsibilities**

Name	Description	Permissions
Business Administrators	<ul> <li>Read and author main- tenance windows.</li> </ul>	<ul> <li>Read and Write Main- tenance Windows</li> </ul>
	Read and set business	Business Admin-

Name	Description	Permissions
	configurations.	istration
Business Service Approvers	<ul> <li>Read all.</li> <li>Approve, reject, and comment on business services.</li> </ul>	<ul> <li>Read All</li> <li>Approve Business Services</li> </ul>
Business Service Authors	<ul> <li>Read all.</li> <li>Author, import, and comment on business services.</li> </ul>	<ul><li>Read All</li><li>Write Business Services</li></ul>
Business Service Owners	<ul> <li>Read all.</li> <li>Author and import business services.</li> <li>Author SoAs.</li> <li>Approve, reject, and comment on business services and SoAs.</li> <li>Author, import, and make obsolete resources.</li> </ul>	<ul> <li>Read All</li> <li>Write Business Services</li> <li>Write Statements of Applicability</li> <li>Approve Business Services</li> <li>Approve Statements of Applicability</li> <li>Read and Write Resources</li> </ul>
Compliance Architects  Control Approvers	<ul> <li>Read all.</li> <li>Author and import policies.</li> <li>Author SoAs.</li> <li>Approve, reject, and comment on policies and SoAs.</li> <li>Read controls.</li> <li>Approve, reject, and</li> </ul>	<ul> <li>Read All</li> <li>Write Policies</li> <li>Write Statements of Applicability</li> <li>Approve Policies</li> <li>Approve Statements of Applicability</li> <li>Read and Approve Controls</li> </ul>

Name	Description	Permissions
Control Authors	<ul> <li>Read, author, import, and comment on con- trols.</li> </ul>	<ul> <li>Read and Write Con- trols</li> </ul>
Maintenance Window Man- agers	<ul> <li>Read and write main- tenance windows.</li> </ul>	<ul> <li>Read and Write Main- tenance Windows</li> </ul>
On Demand Scan Compliance Job Runners	<ul><li>Read all.</li><li>Run on-demand scan compliance jobs.</li></ul>	<ul><li>Read All</li><li>Run Scan Compliance</li><li>Job</li></ul>
On Demand Remediation Job Runners	<ul><li>Read all.</li><li>Run on-demand remediation jobs.</li></ul>	<ul><li>Read All</li><li>Run Remediation Job</li></ul>
Platform Engineers	<ul> <li>Read, author, and import controls.</li> <li>Approve, reject, and</li> </ul>	<ul> <li>Read and Write Controls</li> <li>Read and Approve Control</li> </ul>
	comment on controls.	trols
Policy Approvers	<ul> <li>Read all.</li> <li>Approve, reject, and comment on policies.</li> </ul>	<ul><li>Read All</li><li>Approve Policies</li></ul>
Policy Authors	<ul><li>Read all.</li><li>Author, import, and comment on policies.</li></ul>	<ul><li>Read All</li><li>Write Policies</li></ul>
Resource Administrators	<ul> <li>Read, author, import, and make obsolete resources.</li> </ul>	Read and Write     Resources
Statement of Applicability Approvers	<ul> <li>Read all.</li> <li>Approve, reject, and comment on SoAs.</li> </ul>	<ul><li>Read All</li><li>Approve Statements of Applicability</li></ul>
Statement of Applicability Authors	<ul><li>Read all.</li><li>Author, approve,</li></ul>	<ul><li>Read All</li><li>Approve Statements of</li></ul>

Name	Description	Permissions
	reject, and comment on SoAs.	Applicability  • Write Statements of Applicability
System Administrators	<ul> <li>Read and set system configurations.</li> </ul>	System Administration
Viewers	<ul> <li>Read business services, controls, resources, policies, and SoAs.</li> </ul>	Read All

# **Permissions**

Permissions define the action (such as scan, remediate, or import) that can be taken against an object type. Permissions cannot be added, edited, or deleted.

# **ITOC Permissions**

Permission Name	Permission Description
Approve Business Ser-	Approves business services.
vices	Rejects business services.
	Comments on business services.
	Requires Read All permission.
Approve Policies	Approves policies.
	Rejects policies.
	Comments on policies.
	Requires Read All permission.
Approve Statements	Approves SoAs.
of Applicability	Rejects SoAs.
	Comments on SoAs.
	Requires Read All permission.

Permission Name	Permission Description
Business Admin-	Sets compliance threshold.
istration	Sets business object ID prefixes.
	Sets workflows.
	Configures notifications.
Read All	<ul> <li>Views policy properties, requirements, rules, and compliance score.</li> </ul>
	<ul> <li>Views business service properties (including default main- tenance windows), topology, and compliance score.</li> </ul>
	<ul> <li>Views SoA properties (including maintenance windows), exceptions, and compliance score.</li> </ul>
	<ul> <li>Views control properties and scripts.</li> </ul>
	Views IT resource properties.
	<ul> <li>Reads maintenance windows from the business service or SoA associated with a specified window.</li> </ul>
Read and Approve Con-	Views control properties, scripts, and parameters.
trols	Approves on controls.
	Rejects on controls.
	Comments on controls.
Read and Write Con-	Views control properties, scripts, and parameters.
trols	Creates controls.
	Imports controls.
	<ul> <li>Edits control properties, scripts, and parameters.</li> </ul>
	Comments on controls.
	Submits controls.
	Makes controls obsolete.
Read and Write Main- tenance Windows	Read maintenance windows.

Permission Name	Permission Description
	Create maintenance windows.
	Edit maintenance windows.
	Delete maintenance windows.
Read and Write	Views resources and compliance score.
Resources	Creates resources.
	Imports resources.
	Edits resources.
	Makes resources obsolete.
	Installs agents.
Run Remediation Jobs	Runs on-demand remediation jobs.
	Requires <b>Read All</b> permission.
Run Scan Compliance	Runs on-demand scan compliance jobs.
Jobs	Requires <b>Read All</b> permission.
System Admin-	Sets system configurations.
istration	Sets up email integration with SMTP.
	Sets schedule for recompliance calculation.
	Sets schedule for user to perform LDAP synchronization.
Write Business Ser-	Creates new business services or new draft revisions.
vices	Imports new business services.
	<ul> <li>Edits business services properties and topology.</li> </ul>
	Comments on business services.
	Submits business services.
	Makes business services obsolete.
	Requires <b>Read All</b> permission.
Write Policies	Creates new policies or new draft revisions.

Permission Name	Permission Description
	Imports policies.
	Edits policy properties, requirements, and rules.
	Comments on policies.
	Submits policies.
	Makes policies obsolete.
	Requires Read All permission.
Write Statements of Applicability	Creates new SoAs and new draft revisions.
	Edits SoA properties and exceptions.
	Assigns maintenance windows to SoAs.
	Comments on SoAs.
	Submits SoAs.
	Makes SoAs obsolete.
	Requires Read All permission.

# **Chapter 4 Notifications**

Users are notified by email when they need to perform actions (such as approve a revision) or when changes occur to an object that is of interest to them. A user logged into the public organization with the **Business Administration** permission can view and manage notifications.

The administrator can enable or disable notification types, such as notification of a new revision of an object being promoted into production. The administrator also customizes whom to notify per notification type, such as notifying the named **Approver** user when an object revision is submitted for that user's approval.

## **Notifications Overview**

ITOC has several notification types, all of which are enabled by default. Email notifications are triggered by a specific event, such as submitting an object revision for approval.

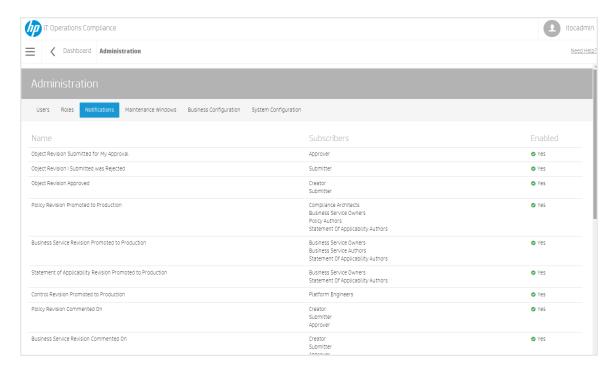
#### **Subscribers**

Each notification type has a default set of subscribers. The subscribers receive notifications based on their action on the object revision that the notification is about. Possible **Subscriber** options are:

- **Creator** The user who created the object revision.
- Submitter The user who submitted the object revision.
- **Approver** The user specified as the approver for the object revision.
- **Rejecter** The user who rejected the object revision.
- **Commenter** The user who commented on the object revision.
- One of 18 fixed Roles (see Roles). If a role is selected, the notification is sent to all users who have that particular role.

# **View Notifications**

A user with the **Business Administration** permission can log into any organization to view notifications. The **Notifications** view shows the notification types and subscribers in the ITOC system:



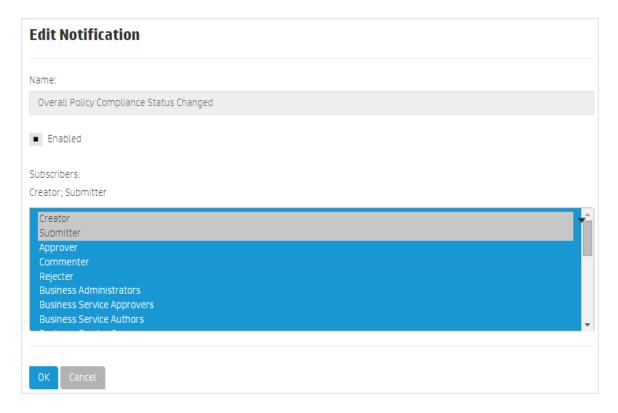
## From here, you can view:

- Name Notification type.
- Subscribers Roles of users who receive notifications (Creator, Submitter, Approver, Rejecter, Commenter).
- Enabled Whether or not a notification type is enabled.

# **Edit Notifications**

The user with Business Administration permission in a public organization can modify the subscribers list and change a notification's enabled/disabled state. To edit notifications:

- 1. Navigate to the **Notifications** list.
- Click a notification name. The **Edit Notification** dialog appears, with the current information for the notification already selected:



- Name View only.
- Enabled Checkbox for the enabled state.
- **Subscribers:** List of subscriber roles, with the current subscriber roles selected (**Creator** and **Submitter** in the example).

#### 3. Press OK.

# **Configure SMTP for Notifications**

You must configure your SMTP server to send notifications. See System Configuration for configuration details.

# **Notification Types**

# **Event-Driven Types**

Notifications are triggered by an event, such as an object revision being promoted to production. This section describes notification types.

#### **Business Service Revision Commented On**

When a user comments on a business service revision, a notification email is sent to the **Creator**, **Approver** (if applicable), and **Submitter** (if applicable).

#### **Business Service Revision Promoted to Production**

When a business service revision is promoted to production, a notification email is sent to **Business Service Authors**, **Business Service Owners**, and **Statement of Applicability Authors**.

# Business Service Revision Promoted to Production, where Business Service is Associated with an SoA

When a business service revision is promoted to production and an SoA is associated with it, a notification email is sent to the **Creator** and **Submitter** of the SoA and **Submitter** of the business service.

#### **Business Service was Obsoleted**

When a business service becomes obsolete, a notification email is sent to **Business Service Authors**, **Business Service Owners**, and **Statement of Applicability Authors**.

#### **Control Revision Commented On**

When a user comments on a control revision, a notification email is sent to the **Creator**, **Approver** (if applicable), and **Submitter** (if applicable).

#### **Control Revision Promoted to Production**

When a control revision is promoted to production, a notification email is sent to **Platform Engineers**.

#### Control Revision Promoted to Production, where Control used in a Policy Rule

When a control revision that is used in a policy rule is promoted to production, a notification email is sent to the **Creator** and **Submitter** of the policy and **Submitter** of the control.

# Control Revision Promoted to Production, where Control used in a Policy Rule, and Policy is associated with an SoA

When a control revision that is used in a policy rule is promoted to production and the policy is associated with an SoA, a notification email is sent to the **Creator** and **Submitter** of the SoA and **Submitter** of the policy.

#### **Control was Obsoleted**

When a control becomes obsolete, a notification email is sent to **Compliance Architects**, **Control Authors**, **Platform Engineers**, and **Policy Authors**.

#### Maintenance Window was Deleted and Auto-removed from SoA

When a maintenance window is deleted and automatically removed from an SoA, a notification email is sent to the **Creator** and **Submitter** of the SoA.

#### **Object Revision Approved**

When an object revision is approved, a notification is sent to the **Submitter** and **Creator**.

#### **Object Revision Submitted for My Approval**

When a user submits an object revision that requires approval, a notification email is sent to the **Approver**.

**Note:** HP recommends you retain the default subscriber, because the message will not make sense to any other user.

#### **Object Revision I Submitted was Rejected**

When an object revision a user submits is rejected, a notification email is sent to the **Submitter**.

**Note:** HP recommends you retain the default subscriber, because the message will not make sense to any other user.

#### **Policy Revision Commented On**

When a user comments on a policy revision, a notification email is sent to the **Creator**, **Approver** (if applicable), and **Submitter** (if applicable).

#### **Policy Revision Promoted to Production**

When a policy revision is promoted to production, a notification email is sent to **Business Service Owners**, **Compliance Architects**, **Policy Authors**, and **Statement of Applicability Authors**.

## Policy Revision Promoted to Production, where Policy is Associated with an SoA

When a policy revision is promoted to production and an SoA is associated with it, a notification

email is sent to the Creator and Submitter (of the SoA) and Submitter of the policy.

## Policy Revision Promoted to Production, which Invalidated an SoA Exception

When a policy revision is promoted to production, causing an SoA exception to become invalidated by deleting the excepted requirement, a notification email is sent to the **Creator** and **Submitter** of the SoA and **Submitter** of the policy.

#### **Policy was Obsoleted**

When a policy becomes obsolete, a notification email is sent to **Compliance Architects**, **Policy Authors**, and **Statement of Applicability Authors**.

#### **Resource was Obsoleted**

When a resource becomes obsolete, a notification email is sent to **Business Service Authors**, **Business Service Owners**, and **Resource Authors**.

#### **Statement of Applicability Revision Commented On**

When a user comments on an SoA revision, a notification email is sent to the **Creator**, **Approver** (if applicable), and **Submitter** (if applicable).

#### **Statement of Applicability Revision Promoted to Production**

When an SoA revision is promoted to production, a notification email is sent to **Statement of Applicability Authors** and **Business Service Owners**.

#### Statement of Applicability Revision was Obsoleted

When an SoA revision becomes obsolete, a notification email is sent to **Statement of Applicability Authors** and **Business Service Owners**.

## **Reminder Types**

Reminder types in ITOC have one of two global reminder frequency values:

- The number of days before an event (for example, the number of days before an exception expires).
- The number of days after an event (for example, number of days after a revision was submitted for approval). This reminder will be sent up to 3 times. For example, if a reminder is

set to send 7 days after a reminder, it will send 7, 14, and 21 days after, if necessary.

These setting are set at a system level. For more information, see System Configuration.

This section lists reminder types.

#### **Draft Revision In Draft State for N Days**

When an draft object revision has been in draft state for a specified number of days, a notification email is sent to the **Creator**.

#### **Object Revision Has Been Awaiting My Approval**

When an object revision has not been approved for a specified number of days after its due date, a notification email is sent to the **Approver**.

#### **Object Revision I Submitted Has Not Been Approved**

When an object revision you have submitted has not been approved for a specified number of days after its due date, a notification email is sent to the **Submitter**.

#### **Policy Effective Date Is Coming Up Soon**

When a policy effective date is coming up in a specified number of days, a notification email is sent to the **Approver** and **Submitter**.

## **Production SoA With Expired Exception(s)**

When a production SoA has exception(s) that have expired, a notification email is sent to the **Sub-mitter**.

#### SoA Revision Has Exception(s) Expiring Soon

When an SoA revision has exception(s) that are due to expire in a specified number of days, a notification email is sent to the **Submitter**.

## **Compliance Status**

#### **Business Service Meeting MSLO Changed**

When a business service revision has a change in MLSO status, a notification email is sent to the **Creator** and **Submitter** of the business service.

## **Business Service Meeting RSLO Changed**

When a business service revision has a change in RLSO status, a notification email is sent to the **Creator** and **Submitter** of the business service.

## **Overall Business Service Compliance Status Changed**

When the overall business service compliance status changes, a notification email is sent to the **Creator** and **Submitter** of the policy.

## **Overall Policy Compliance Status Changed**

When the overall policy compliance status changes, a notification email is sent to the **Creator** and **Submitter** of the policy.

## **Remediation Job Completed**

When a remediation job for an SoA completes, a notification email is sent to the **Creator** and **Submitter** of the SoA.

#### **Scan Job Completed**

When a compliance scan for an SoA completes, a notification email is sent to the **Creator** and **Submitter** of the SoA.

# **Chapter 5** Maintenance Windows

ITOC manages business service availability through the use of maintenance windows. Maintenance windows enable your ITOC system to run scan compliance and remediation jobs automatically, which keeps all SoAs in the system meeting their SLOs.

## **Maintenance Windows Overview**

A maintenance window defines a block of time in which jobs are allowed to run and which types of jobs can run in the window. You can use a maintenance window to define a recurring maintenance schedule or a single-occurrence maintenance window. Each instance when a maintenance window is active is called a timeslot.

The ITOC administrator defines the set of allowable maintenance windows, and the business service owner associates a business service with a set of maintenance windows per SoA. The business service owner assigns maintenance windows to an SoA based on availability of a business service for the scan or remediation jobs, with enough frequency (timeslots) to meet SLOs. For example, if an MSLO is within two weeks, the business service owner will not use a monthly scan window, because the SoA will constantly fall out of MSLO.

Common examples of defined maintenance schedules are:

- Saturday from 2-6 AM Pacific Time (remediate)
- Mondays, Wednesdays, and Fridays from 1-5AM Pacific Time (scan only)
- Sunday, February 1, 2015, from 2-5AM Pacific Time (scan and remediate)

## **Maintenance Window Work Prioritization**

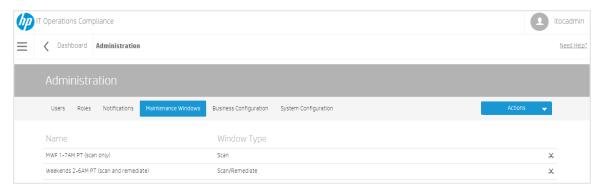
When a maintenance window timeslot begins, the system automatically determines the SoAs on which to run jobs by getting all SoAs with that maintenance window assigned. The system uses this data to identify and prioritize work to be done.

When multiple SoAs are assigned to one maintenance window, the maintenance window work is prioritized on the business service priority (e.g., Gold, Silver, or Bronze) and optimized to meet MSLO.

The system optimizes the scans to meet MSLO. If the SoA has already been scanned within the first half of the MSLO period, then the data is considered fresh enough that no additional scan is needed. For example, the SoA is in a daily maintenance window, and the MSLO is within 30 days. It may not be scanned in every timeslot.

# **View Maintenance Windows**

To view maintenance windows in ITOC, navigate to the **Maintenance Windows** tab in **Administration**:



This page shows a list of maintenance windows:

- Name Name of the maintenance window.
- Window Type Remediate, Scan, or Scan and Remediate.

If you are logged into a consumer organization, you can also see the public organization maintenance windows.

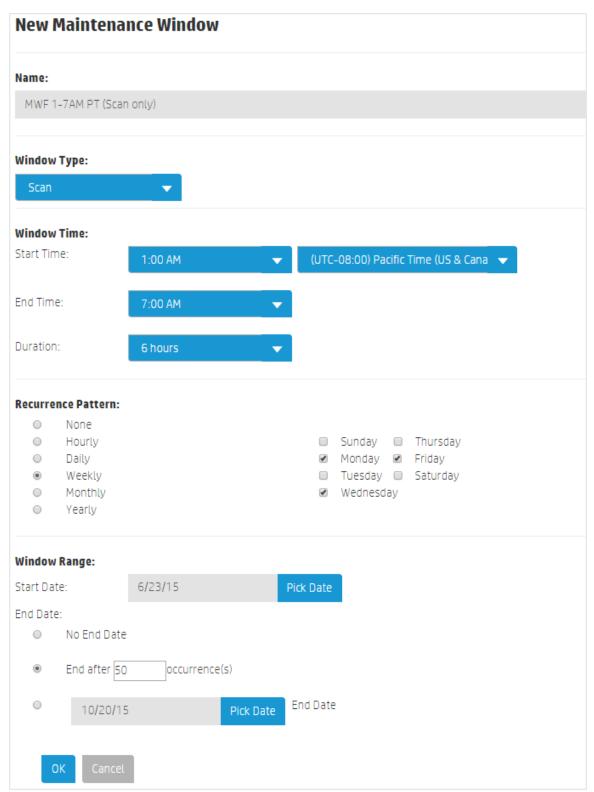
## **Create a New Maintenance Window**

To create a new maintenance window in an organization, the user must be logged in to the specified organization with the Read and Write Maintenance Windows permission.

Perform the following steps to create a new maintenance window:

- 1. Navigate to the **Maintenance Windows** tab in **Administration**.
- 2. From Actions, select New Window.

# 3. The New Maintenance Window screen appears:



#### Complete the following fields:

• Name: Name of the maintenance window.

Business owners will select this maintenance window from several maintenance windows in the SoA. In order for business owners to identify and select the correct maintenance window, provide a unique descriptive name, including a summary of the schedule, the timezone, and window type.

- Window Type: Determines what types of jobs are allowed to run in the window.
   Select a window type:
  - Remediate Only Run Remediation jobs can run in the window.
  - **Scan** (default) Only **Scan Compliance** jobs can run in the window.
  - Scan/Remediate Either Scan Compliance or Run Remediation jobs can run in the window.

#### Window Time

Start Time: Select a time of day from the first dropdown list (default is 12 AM), and select a timezone from the second dropdown list [default is (UTC-08:00) Pacific Time (US & Canada)].

**Note:** Some timezones are affected by daylight savings time.

- End Time: Select a time of day from the first dropdown list (default is 12 AM).
- Duration: Length of time (default is 0 minutes).
- **Recurrence Pattern:** Select a recurrence pattern:
  - None No recurrence pattern selected.
  - **Hourly** Repeats at the specified frequency within a single day. For example, if a maintenance window is scheduled to start at 2 a.m. and run for 4 hours and the recurrence pattern is hourly every 8 hours, it will run from 2 to 6 a.m., 10 a.m. to 2 p.m., and 6 p.m. to 10 p.m.
  - **Daily** (default) Runs once every day.
  - Weekly You can specify any or all days of the week.

- Monthly You can specify one of the following:
  - The <n> day of every <n> month for example, Day 1 of every 3
     Month(s), or
  - The <n> <weekday> of every <n> month for example, Second Monday of every 3 Month(s).
- Yearly You can specify one of the following:
  - The <month> and <day> to run on annually for example, Every July
     10th, or
  - The <n> <weekday> of a selected month annually for example, The Second Friday of July.

#### Window Range:

- **Start Date:** Use the **Pick Date** dropdown calendar to select a start date. The default is today's date.
- End Date:
  - **No End Date** This radio button is selected by default.
  - **End after 50 occurrence(s)** Enter a number of occurrences. The default is 50 occurrences.
  - Use the **Pick Date** dropdown calendar to select an end date. The default is today's date.
- 4. Press **OK** to create the maintenance window.

# **Manage Maintenance Windows**

To update and manage maintenance windows in an organization, the user must be logged in to the specified organization with the **Read and Write Maintenance Windows** permission.

#### **Maintenance Windows Details**

From the **Maintenance Windows** list, click on the name of the maintenance windows whose details you want to view:



# To edit maintenance windows properties...

- 1. Click Actions to select **Edit Properties**.
- 2. Modify the maintenance window as needed.
- 3. Press OK.

A maintenance window cannot be modified while it is starting a new timeslot; if it is, an "in use" exception occurs. If this exception occurs, the user must wait to continue until after the maintenance window has finished starting its work.

#### To delete a maintenance window...

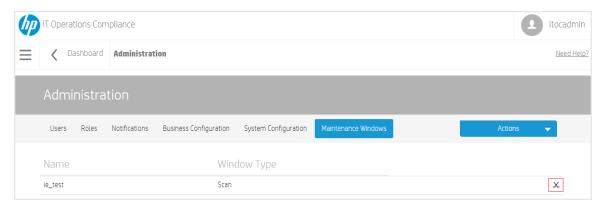
1. Click on the maintenance window you want to delete, and click **Actions**:



- 2. Select Delete Maintenance Window.
- 3. From the confirmation dialog that appears, press Yes.

Or:

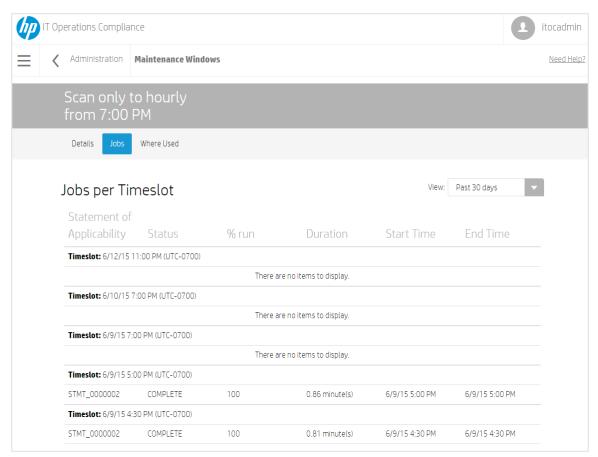
1. Press the  $\frac{1}{2}$  icon in the row of the maintenance window you want to delete:



2. From the confirmation dialog that appears, press Yes.

#### **Maintenance Windows Jobs**

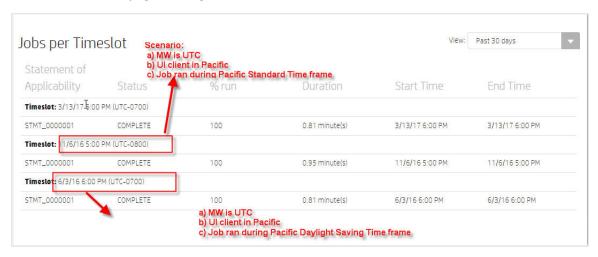
Select **Jobs** to view the **Jobs per Timeslot** for this maintenance window:



From View:, you can filter jobs per timeslot by Past 30 days (default), Past 60 days, Past 90 days, and All.

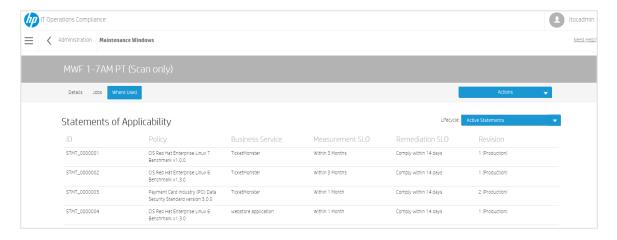
- ID IDs of each SoA on which a job was run during the specified maintenance window timeslot.
- Status Status of the job that was run during the specified maintenance window timeslot:
  - PENDING: The maintenance window timeslot has started and is planning work. Job is pending execution.
  - **IN PROGRESS**: The maintenance window timeslot has started and is executing the job.
  - COMPLETE: The job has completed execution.
  - INCOMPLETE: The maintenance window timeslot ended before the job was executed completely.
- % run Percentage of work that was executed in the job.
- Duration Length of time it took the job to run.
- Start Time The start time of the job.
- End Time The end time of the job.

In the following example, the maintenance window is set to Pacific Time, which is daylight savings time-aware. The maintenance window starts at UTC-7 when daylight savings time is active, and UTC-8 when daylight savings time is not active:



#### Maintenance Windows Where Used

Select **Where Used** to see the SoAs in which a specific maintenance window is used:



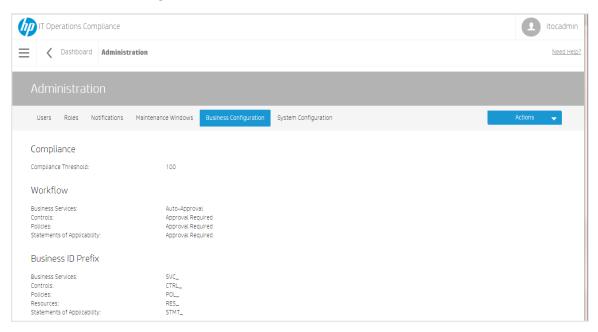
- ID The SoAID.
- Policy The policy associated with the SoA.
- Business Service The business service associated with the SoA.
- Measurement SLO The MSLO defined by the SoA.
- Remediation SLO The RSLO defined by the SoA.
- Revision The SoA revision and lifecycle state.

# **Chapter 6 Business Configuration**

To view business configuration details, the user must be logged in with the Business Administration role.

Perform the following steps to view and edit business configuration details:

- 1. Log into ITOC and click the **Administration** tab.
- 2. Click the **Business Configuration** tab to view details.



3. Click **Actions** to **Edit Business Configuration**. The **Edit Business Configuration** form appears:



4. Modify information as needed, and press **OK**.

**Note:** Changes made apply to the organization to which the business administrator is logged in.

## **Compliance**

• **Compliance Threshold:** The value can be a number from 1 through 100. It is the minimum percentage of compliance to be considered compliant overall. The default is 100.

## Workflow

Set the workflow per business entity. **Auto-Approval** means that no approval is required, and submit takes the entity from draft to production. **Approval Required** means that the named approver must approve object before going into production.

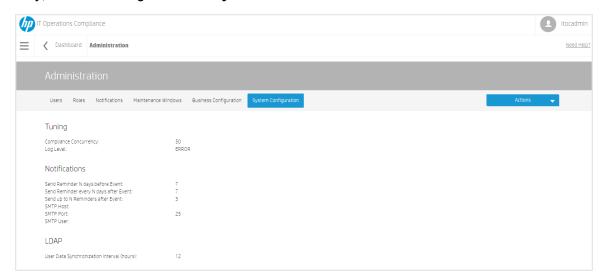
- Business Services: Default is Auto-Approval.
- **Controls:** Default is Approval Required.
- Policies: Default is Approval Required.
- **Statements of Applicability:** Default is Approval Required.

#### **Business ID Prefix**

Per business entity, define the starting characters for the ID to distinguish different entity types from each other. The user can change the prefix of the auto-generated ID for each object type. The allowable prefix length is 1 to 50 characters.

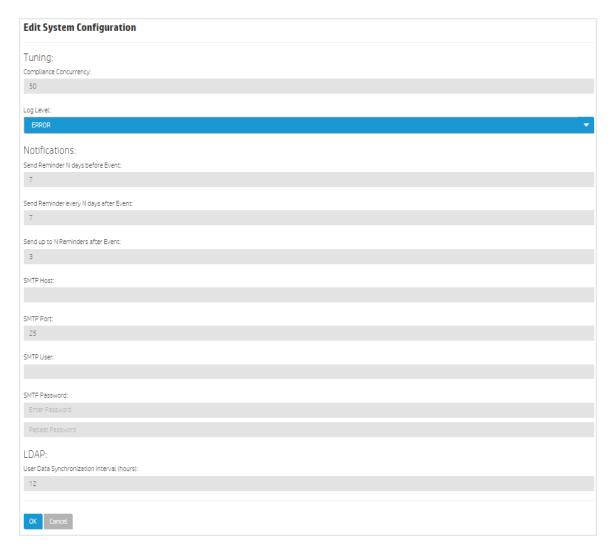
## **Chapter 7 System Configuration**

To view and modify system configuration details, the user must be logged in as **Public Organization** and have the **System Administration** permission. To view system configuration settings only, the user can log in with the **System Administration** role.



#### To modify system configuration:

 Click Actions to Edit System Configuration. The Edit System Configuration dialog appears:



#### **Tuning**

- **Compliance Concurrency** Number of concurrent threads used during Scan Compliance and Remediate job execution. The user can modify the compliance concurrency to any value from 1 through 255. The default is 50.
- Log Level: Set the log level to control the logging granularity in the <install directory>/serverlog/itoc-server.log. Available levels are ALL, DEBUG, ERROR (default), INFO, OFF, TRACE, and WARN.

#### **Notifications:**

- Set Reminders N Days Before Event: The default is 7 (see Reminder Types).
- Set Reminder Every N Days after Event: The default is 7.

- Send up to N Reminders After Event: The default is 3.
- **SMTP Host:** Your SMTP server (e.g., smtp.yourserver.com). This field is required to enable notifications.
- **SMTP Port:** The port configured on the SMTP server. The default is 25. This field is required to enable notifications.
- **SMTP User:** The SMTP user. This field is used or not based on your SMTP server setup.
- **SMTP Password:** The password must be encrypted. This field is used or not based on your SMTP server setup.

#### LDAP:

- **Sync User Info every N Hours:** How often LDAP synchronization is performed. The default is 12 hours.
- 2. Press OK.

## Chapter 8 Organizations

ITOC has two types of organizations – public and consumer. This chapter discusses ITOC organizations, Lightweight Directory Access Protocol (LDAP) integration, and the Organizations Administration UI.

## **Organizations Overview**

An organization determines a user's entry point into the ITOC system and associates its users with services and resources. The ITOC administrator creates and edits user groups and assigns roles to these user groups, based on LDAP groups. Membership in an organization is determined by the organization's LDAP directory.

ITOC has two types of organizations:

- Public Provider Organizations The provider organization hosts ITOC, manages consumer
  organizations, and manages resources and services. Production revisions of public objects
  and resources in the public provider organization are shared with the consumer organizations. For example, a user can import control and policy content from HPLN into the
  public provider organization. Then, each consumer organization can use these policies; for
  example, measure the compliance of their business services against shared or common
  policies.
- Consumer Organizations The consumer organization subscribes to or consumes the
  resources and services provided by the provider organization. There may be multiple consumer organizations configured by the provider organization. However, each consumer or
  subscriber sees only the information of the consumer organization of which he is a member (membership to a consumer organization is determined by the LDAP configuration of
  the consumer organization).

The administrator configures ITOC to access an LDAP server, at which point LDAP users can log into the ITOC UI. LDAP authenticates user login credentials by verifying that the user name and password match an existing user in the LDAP directory.

#### **Public Provider Organizations**

At installation, one public provider organization is set up by default; no other provider-type organizations can be created. The Administrator (or **itocadmin**) user has the CSA\_ADMINISTRATION role and can log into the Organizations Administration UI. This user can:

- **Configure LDAP** For each organization, the Administrator can specify the LDAP end-point to access as the source for users.
- Creates one or more groups Each group is a representation of an LDAP group.
- Assign roles to groups Assigns roles to each group (see Roles).

#### **Consumer Organizations**

Consumer organizations have the same functionality as public provider organizations. What a user can do within a consumer organization is based on the roles assigned to that user.

You can create separate consumer organizations based on your company's organizational structure.

- For example, you might create separate consumer organizations for R&D and Finance. R&D
  can only see R&D objects within its consumer organization plus public content; Finance can
  only see Finance objects within its consumer organization plus public content.
- Each organization can set different business configurations for example, the R&D compliance threshold is set to 95, while the Finance compliance threshold is set to 100.
- Each organization can have different business processes for example, R&D may choose to use the Auto-Approval workflow for all object types, while Finance may choose to use the Approval Required workflow.

## Log Into the Organizations Administration UI

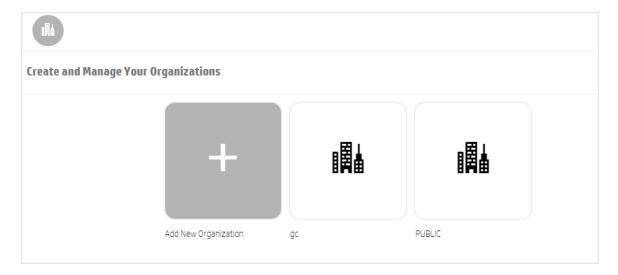
A user with the CSA\_ADMINISTRATION role logs in to the **Organizations Administration UI** using port 9200. For example:

https://<ITOC hostname>:9200

The Create and Manage Your Organizations view appears.

## **Create and Manage Organizations**

At ITOC installation, a single public organization is set up. Use the **Create and Manage Your Organizations** Administration UI to create consumer organizations, as needed.



#### From this view, you can:

- Add a new organization Click Add New Organization, and provide a name for the organization (see Create a New Organization for more details).
- **Navigate to an organization** Click the tile name of the organization to which you want to navigate.

This chapter provides information about the following:

- Create a New Organization
- Configure and Manage Authentication
- Customize a Consumer Organization
- Add Groups and Associate Business Roles

#### **Create a New Organization**

The administrator can create one or many consumer organizations. Everything in production state and all resources in the public organization are shared with all consumer organizations. Objects created in consumer organizations are only known to users in that organization. Consumer organization users can use public organization objects, such as shared controls, policies, and resources.

**Authentication**, **Groups**, and **Business Roles** need to be configured for each organization. They work together for users to perform authentication and authorization functions in ITOC UI.

- Authentication Configure and manage multiple LDAP identity servers for each organization (see Configure and Manage Authentication).
- Groups Add groups to help manage what roles can be assigned to its users (see Add Groups and Associate Business Roles).
- Business Roles Associate groups with roles or roles with groups, giving users permissions to view and access information in ITOC UI (see Add Groups and Associate Business Roles).

Note that the URL for the organization is automatically assigned and generated using server location information and the name of the organization to create the URL. Once generated, it is not editable.

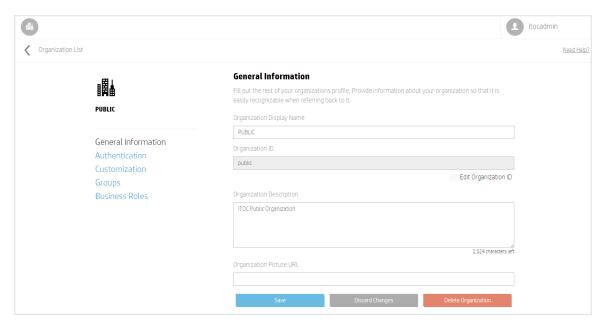
To create a new organization:

 From your browser, log in to the **Organizations Administration UI** using port 9200. For example:

```
https://<ITOC hostname>:9200
```

- 2. The **Create and Manage Your Organizations** view opens, and the current organizations in the system are shown.
- 3. Click the Add New Organization widget.
- 4. In the **Create Organization** window, type in your new **Organization Name**. The system will create a unique **Organization ID** based on your Organization Name, which is a unique identifier in ITOC.
- 5. Press Create.
- 6. A dialog page appears, with the following five page links:
  - General Information
  - Authentication
  - Customization
  - Groups
  - Business Roles

7. Click the **General Information** view:



- Note that the Organization Name used to create the organization is now the Organization Display Name. In this view, you can edit your Organization Display Name:
  - 1. Enter a full description of your new organization.
  - 2. You can use a default image to represent the organization, or you can use the organization picture URL field to input an image from any live URL.
  - 3. Press the Save button.

**Note:** If you have if have not saved your last change while creating an organization, a screen called **Unsaved Changes** appears. This feature allows you to **Return to Page** where you can edit and save your most recent changes, or **Discard Changes** to proceed to the **Authentication** section.

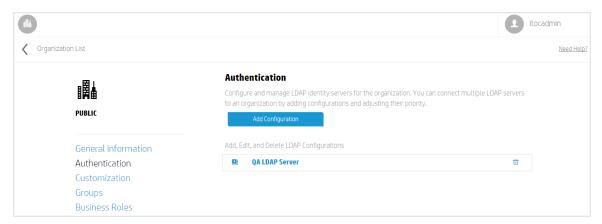
- The Organization ID is grayed out, as it is uneditable by end users. This is the
  unique organization name used to identify your organization.
- Click the **Authentication** tab, and enter your LDAP information. You will set your LDAP
  attributes and privileges for users, groups, and other basic authentication information for
  integration with your organization. For information on authentication and setting up
  LDAP, see Configure and Manage Authentication.
- 9. Click the **Customization** tab to customize the organization. For more information on

customizing organizations, see Create and Manage Organizations.

10. Press Save.

#### **Configure and Manage Authentication**

You can connect multiple LDAP servers by adding configurations and adjusting their relative priority within an organization.



#### LDAP is used to:

- Authenticate a user's login.
- Authenticate a user's access to information.
- Authorize a user's access to information.

To completely configure access to ITOC, you must configure LDAP to authenticate a user's login, configure LDAP for an organization to authenticate a user's access to information, and configure access control for an organization to authorize a user's access to information.

To configure LDAP for an organization:

- 1. Click the **Authentication** link.
- 2. To add a configuration, click the **Add Configuration** button.

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To edit a configuration, click on the display named of an existing LDAP.

Add or edit the following information:

#### **LDAP Server Information**

Item	Description
Display Name	The display name for the LDAP server.
Hostname	The fully qualified LDAP server domain name (server.domain.com) or IP address.  Example: ldap.xyz.com
Port	The port used to connect to the LDAP server (by default, 389).  Example: 389
SSL Connection	If the LDAP server is configured to require LDAPS (LDAP over SSL), select the <b>SSL Connection</b> checkbox.
Base DN	Base distinguished name. The Base DN is the top level of the LDAP directory that is used as the basis of a search.  Example: o=xyz.com
User ID (Full DN)	The fully distinguished name of any user with authentication rights to the LDAP server. If the LDAP server does not require a User ID or password for authentication, this value can be omitted.  Example: uid=admin@xyz.com, ou=People, o=xyz.com
Password	Password of the User ID. If the LDAP server does not require a User ID or password for authentication, this value can be omitted.
Retype Pass- word	Retype the password of the User ID.

#### **LDAP Attributes**

Enter the names of the attributes whose values are used for email notifications, authentication, and approvals in HP ITOC.

ltem	Description
User Email	The name of the attribute of a user object that designates the email address of the user. The email address is used for notifications. If a value for this attribute does not exist for a user, the user does not receive email notifications.

Item	Description
	Default: mail
Group Mem- bership	The name of the attribute(s) of a group object that identifies a user as belonging to the group. If multiple attributes convey group membership, the attribute names should be separated by a comma.  Default: member, uniqueMember
Manager Iden- tifier	The name of the attribute of a user object that identifies the manager of the user.
	Default: manager
Manager Iden- tifier Value	The name of the attribute of a user object that describes the value of the Manager Identifier's attribute. For example, if the value of the Manager Identifier attribute is a distinguished name (such as cn=John Smith, ou=People, o=xyz.com) then the value of this field could be dn. Or, if the Manager Identifier is an email address (such as admin@xyz.com), then the value of this field could be email.
	Default: dn
User Avatar	LDAP attribute whose value is the URL to a user avatar image that will display for the logged in user portal. If no avatar is specified, a default avatar will be used.

## **User Login Settings**

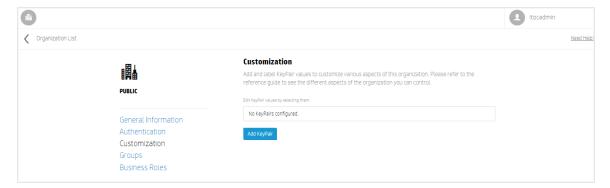
A user search-based login method is used to authenticate access to information.

ltem	Description
User Name Attributes	The name of the attribute of a user object that contains the username that will be used to log in. The value for this field can be determined by looking at one or more user objects in the LDAP directory to determine which attribute consistently contains a unique user name. Often, you will want a <b>User Name Attribute</b> whose value in a user object is an email address.
	Examples: userPrincipalName or sAMAccountName or uid

Item	Description
User Search- base	The location in the LDAP directory where users' records are located.  This location should be specified relative to the base DN. If users are not located in a common directory under the base DN, leave this field blank.
	Examples: cn=Users Or ou=People
User Search Filter	Specifies the general form of the LDAP query used to identify users during login. It must include the pattern {0}, which represents the user name entered by the user when logging in. The filter is generally of the form <attribute>= {0}, with <attribute> typically corresponding to the value entered for User Name Attribute.</attribute></attribute>
	<pre>Examples: userPrincipalName={0} or sAMAccountName= {0} or uid={0}</pre>
Search Option (Search Sub- tree)	When a user logs in, the LDAP directory is queried to find the user's account. The <b>Search Subtree</b> setting controls the depth of the search under <b>User Search Base</b> . If you want to search for a matching user in the <b>User Search Base</b> and all subtrees under the <b>User Search Base</b> , make sure the <b>Search Subtree</b> checkbox is selected. If you want to restrict the search for a matching user to only the <b>User Search Base</b> , excluding any subtrees, unselect the <b>Search Subtree</b> checkbox.

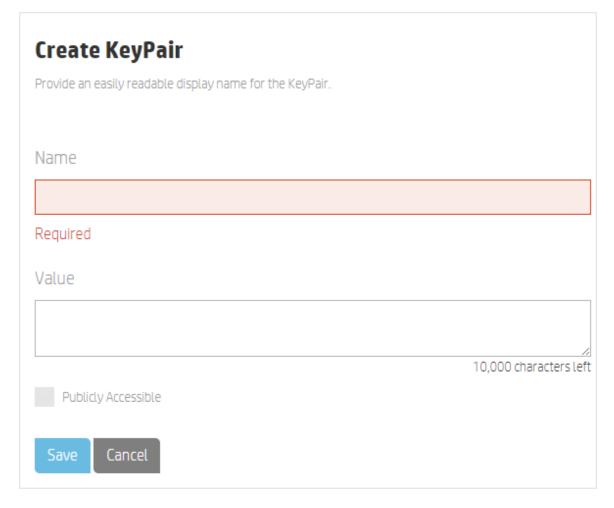
### **Customize a Consumer Organization**

From the **Customization** screen, you can customize various aspects of a consumer organization by adding and labeling **KeyPair Values**.



To customize a consumer organization:

- 1. Click the **Customization** view.
- 2. Click **Add KeyPair**. The **Create KeyPair** dialog appears:



- Name Enter a required display name for the KeyPair.
- Value Enter a value for the KeyPair.
- **Publicly Accessible** Check the box to make the organization publicly accessible.
- 3. Press Save.

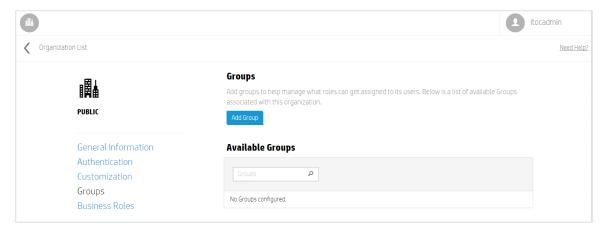
#### **Application Labeling**

KeyPair Value	Description
portalTitle	Type a name that displays on the login screen and header of your organization's portal.

KeyPair Value	Description
portalWelcomeMsg	Type a welcome message that displays below the Application Name when a user logs into your organization's portal.
portalFooterMsg	Type a footer message that displays below the login screen and header of your organization's portal.

#### **Add Groups and Associate Business Roles**

You can map LDAP groups in the organization administration, giving users in the LDAP groups login authentication on ITOC UI. The **Available Groups** list in this view shows groups associated with this organization:



#### To add a Group:

- 1. Click the **Groups** view.
- 2. Click the Add Group button.
- 3. Provide a **Group Name** and **Distinguished Name**. Both fields are required to create a group.
- 4. Press Create.

There are two ways to associate roles with the group:

- 1. From **Groups**, click the **Group** name link, which brings you to the **Groups** view.
- 2. Search for a role to associate with the group.
- 3. Select a role and click Add Role.
- 4. Click **Save** to make the association.

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- 1. After you create a group, go to the **Business Roles** link below **Groups**.
- 2. To associate a group with a role, click **Add Group** below the desired role.
- 3. Select a group to be associated with the chosen role from the dropdown list.
- 4. Click **Save** to make the association.

Validate that your group has a newly associated role:

- 1. Click on the group link for the group you want to view.
- 2. In the Groups view, you should see the new role association for your group listed in the **Associated Roles** section.

Repeat this process as needed to associate additional groups and roles in your organization.

#### **Edit Groups**

You can edit the group name and distinguished name of a group in the **Groups** view. Click on the group name link, make your name changes in the **Group Name** and **Distinguished Name** fields, then click the **Save** button.

#### **Delete Associated Roles**

There are two ways to delete an role association from a group:

- 1. In the **Groups** view, click on the link for the group. Under **Associated Roles**, click the '**X**' to the right of the role to delete this association, or:
- 2. In the **Business Roles** view, click the 'X' to the right of the group to delete this association.
- 3. The following message appears: **No roles associated with this group**.

#### **Remove Groups**

- 1. Click on the **Groups** link to bring up the **Groups** view, click on the trashcan icon to the right of the **Group** name.
- 2. A warning window appears, allowing you to either **Remove Group** or **Cancel** the deletion.
- 3. Click Remove Group.

#### **Disable Seeded Users**

Once you have integrated with LDAP, you can disable ITOC seeded users:

- Open the: /opt/hp/itoc/wildfly-8.1.0.Final/standalone/deployments/idm-service.war/WEB-INF/classes/itoc-users.properties file.
- 2. Remove all seeded user lines except hpSysUser.

#### 3. Remove these lines:

- itocadmin=ENC (MY0BP7YrmM2U0ySCpJQsrlonVuxq2qbqUIJ0zsvbf+yJbaltebzI4CCDSjlMn0FNlPcqvbpw1Unj cgjXED7LweOyTfgRVl3tovMfLzMe8ZbUemePwE83+SUHLQgri/x7o6KT0pH7odamyLyhobWtha6S sgeLVf/4pwjxcU3oTRXtbAoVFolOWCswlWKZYG8DB7KgGwn/GwmJU4Ne3dFB7A==)
- approver=ENC(iOZ6Rf8wu/W8F2hsvdy0qrEZL0p76cR2eC/CgJ//e/IRidU61Mc5IEI9Y4TQb6aWnDovmoI1SlhY Inf56BCPmAM+25Bn2mhrmAjoleeqi2HpkpLmvt6BUDC/LjXl5phe+V3wYRYspYOq8RMTe1FzlTd5j CcwMinO)
- serviceowner=ENC(DEWrnGaec/alFZMVF8t8z-s6QPjQws7AJq6tulT9ltY1Gn4wzYN8jfr2GGdlaZlp/)
- compliancearchitect=ENC(fgTANEAtGKT3JW62u7UwziWHCCJkWNduZFsTJEDYVpVfZ6DmwSYBwfel+E3N1bOI)
- platformengineer=ENC(s/AUlhCdg601j00wUe/GK1MrwLJskumCTEnKZbtNA6siEcuxk3sGXg==
- viewer=ENC(ujMQ/Uffn6Bb7lEI5+MYlMwgpkQpZF6BGhELOEK8aIc=)
- jobrunner=ENC(N6zxN154xjFy+oo5LBLn-zWIn-pB4TLqAG49wyc2ftwRl3z4fyBnSWT8gF1LeapoVsTt3s9M/SS7C41W6hI1FqY8K6erE2D

#### 4. Save the file.

After seeded users are removed, they still can log in until after the first user data synchronization after removal occurs.

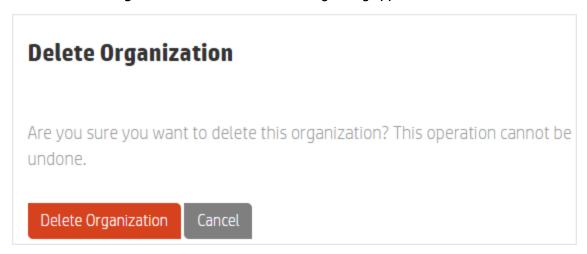
Initial user data synchronization occurs 1 hour after ITOC startup and then every 12 hours by default. This value can be changed and used for subsequent user data synchronization occurrences.

#### **Business Roles**

From the **Business Roles** view, you can associate a group with a business role or delete an association from a role.

## **Delete an Organization**

- 1. Click the **General Information** link.
- 2. Click the **Delete Organization** button. The following dialog appears:



3. Click the **Delete Organization** button.

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Administration Guide