



ADEPTIA

Adeptia Suite 6.0 Administrator Guide

Version 1.0

Release Date March 4, 2013

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DOCUMENT INFORMATION

Adeptia Suite

Administrator Guide

Adeptia Suite Version 6.0

Printed February 2013

Printed in USA

Adeptia Support Information

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PREFACE

This document provides a detailed description of the Administrative features of Adeptia Suite. It guides you to seamlessly manage the functioning, design and integration of business processes using these administrative features.

The administration of Adeptia Suite involves creation and management of users, groups and business roles. The Administrator's role also involves configuration of system properties, creating database connectors, ensuring system security and monitoring system status.

Target Audience

The Administrative features are used primarily by the Administrator, Sys Admin and Group Admin of organizations.

Pre-requisites

You must have administrative rights to perform administrative tasks. These rights vary based upon the user type..

Other resource materials

The following other resource materials are available.

Title	Description
<i>Installation Guide</i>	This document provides guidelines for installing Adeptia Suite on Microsoft Windows and Linux/Solaris operating systems.
<i>Getting Started Guide</i>	This document is intended as a reference for those working with Adeptia Suite for the first time.
<i>Developer Guide</i>	This document covers a detailed description of all activities and services of Adeptia Suite that are available to a developer. It acts as a guideline to use these services seamlessly and use them in a design environment using Adeptia Suite.
<i>Business User Guide</i>	This document covers a detailed description of all features of Adeptia Suite that are available to a business user. It acts as a guideline to use these features seamlessly and perform them in a business environment using Adeptia Suite.
<i>Modeler and Simulation Guide</i>	This document provides an overview of Process Modeler and Simulation features of Adeptia Suite and covers the description

and usage of these tools. It guides you to seamlessly use these tools to analyze, optimize and enhance a business process.

HOW IS THIS GUIDE ORGANIZED?

This guide is organized into the following sections:

Section	Description
<i>Preface</i>	Introduction to this document
<i>Administering Adeptia Suite</i>	Configuration of system properties, creating database connectors, ensuring system security and monitoring system status
<i>Managing Application and System Settings</i>	System Configuration and updating System Properties of the Adeptia Suite
<i>Creating and Managing User Groups</i>	Creating a user group, viewing properties of a user group, editing properties of a user group, deleting a user group
<i>Creating and Managing Users</i>	Creating a user, viewing properties of a user, editing properties of a user, deleting a user
<i>Creating a Business Role</i>	Minimizing the work of a user of <i>Sys Admin</i> or <i>Group Admin</i> type
<i>Managing Kernel and Scheduler</i>	Understanding Process Flow Status when Kernel or Scheduler is started, paused, or stopped.
<i>Managing Secret Key</i>	Creating, Exporting, and Importing Secret Key, Creating Keystore, Exporting Certificate from the Keystore, Importing Certificate into the Keystore

CONVENTIONS

The following tables list the various conventions used in Adeptia documentation. We follow these conventions to help you quickly and easily identify particular elements, processes, and names that occur frequently in documents.



Typographical conventions

This guide uses the following typographical conventions:

Convention	Description
Bold text	Indicates one of the following: <ul style="list-style-type: none"> ▪ Screen element ▪ New terminology ▪ A file or folder name ▪ A control in an application's user interface ▪ A registry key ▪ Important information
<i>Italic text</i>	Indicates a reference or the title of a publication.
Monospaced text	Indicates code examples or system messages.
Monospaced bold text	Indicates system commands that you enter.
<i>Hyperlink</i>	Indicates an Internet link to target material.

Graphical conventions

This guide uses the following graphical conventions:

Convention	Description
	Indicates additional information that may be of interest to the reader.
	Indicates cautions that, if ignored, can result in damage to software or hardware.

CONTACTS/REPORTING PROBLEMS

These sections present contact information for a variety of situations.

Sales

In case of any sales queries, please contact us at sales@adeptia.com.

Support

For support queries, please contact us at support@adeptia.com.

Latest updates and information

For the latest updates and information, please visit us at www.adeptia.com.

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ADMINISTERING ADEPTIA SUITE

The administration of Adeptia Suite involves creation and management of users, groups and business roles. The Administrator's role also involves configuration of system properties, ensuring system security and monitoring system status.

Prerequisites

You must have administrative rights to perform administrative tasks. These rights vary based upon the user type.

ADMINISTRATIVE RIGHTS OF USERS

Administrative rights vary based on the user type. The *Admin* user is pre-created in Adeptia and is entitled to all administrative tasks. The other users are created by the Administrator.

The Admin user can create the following types of users:

- [Sys Admin](#)
- [Group Admin](#)
- [Business User](#)
- [Developer](#)

Sys Admin

A *Sys Admin* user has permissions equivalent to the Administrator. It can create and delete users and groups as well as perform all the tasks of a group admin, business or user developer. However, only Admin and Sys Admin users can update system properties, enable clustering, stop/pause the kernel and restart scheduler.

Group Admin

Each group has one or more "*admin*", who is able to manage the users within that group. A *Group Admin* can create, edit and delete users within its group. He *can* also change the permissions of users and perform all the tasks of a developer.

Business User

A Business User can manage all tasks assigned to the user or his group, executes his solutions, monitor solutions and performance of users, and view all Adeptia Suite Logs.

Developer

A Developer can create object such as activities and process flows etc. It also has rights to execute the process flows and monitor the logs.

MANAGING APPLICATION AND SYSTEM SETTINGS

Admin user and *Sys Admin* type users can view System Configuration and update System Properties of the Adeptia Suite.

In the Adeptia Suite this feature is available in:

EBIM Suite	BPM Suite	ESB Suite	ETL Suite
√	√	√	√

This chapter describes the following tasks:

- [Viewing System Configuration](#)
- [Updating System Properties](#)
- [Reloading System Configuration](#)

VIEWING SYSTEM CONFIGURATION

The System configuration module displays the Adeptia Suite related information such as Java Classpath, Database Information, Session Time Out and Process Flow Recovery Settings etc. System configurations are non-editable and can be viewed only by the *Admin* for troubleshooting purposes.

Steps to view System Configuration

1. Click **Administer** tab and then click **Setup** menu. All the options of the **Setup** menu are displayed (see Figure 1).

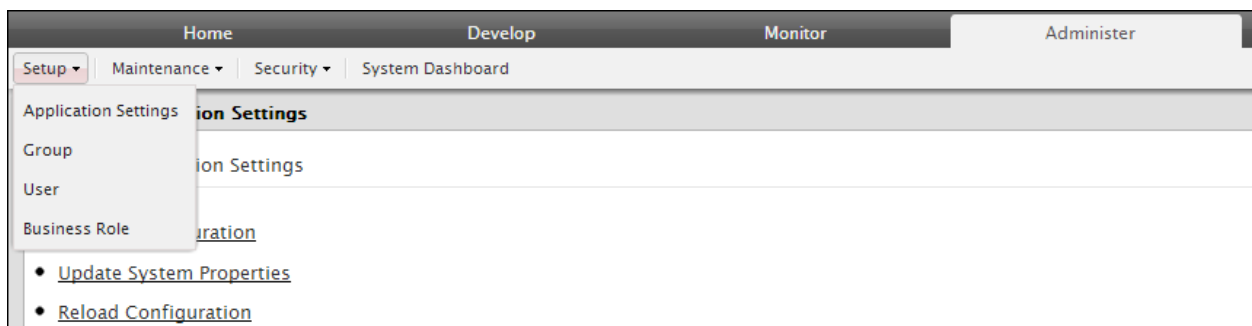


Figure 1: Setup Menu's options

2. Select **Application Settings** option. The **Application Settings** screen is displayed (Figure 2).

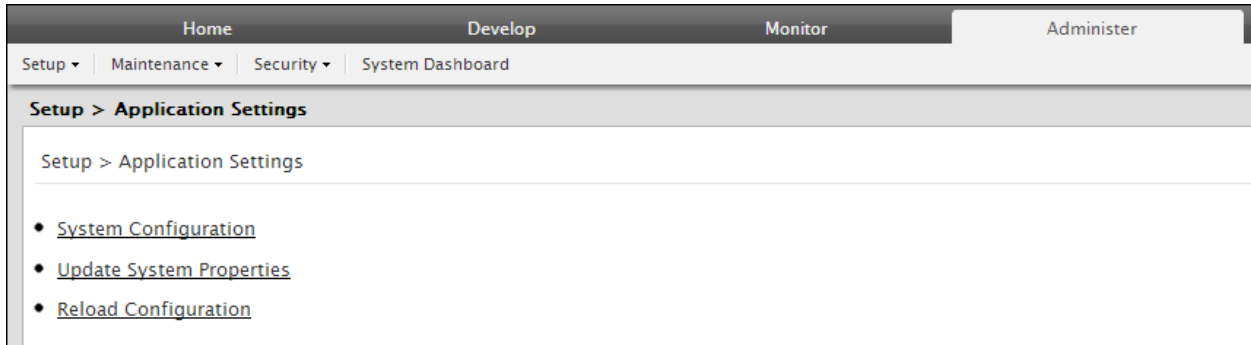


Figure 2: Application Settings

3. Click **System configuration**. The *System configuration* screen is displayed (see Figure 3).

Setup > Application Settings	
Setup > Application Settings > System Configuration	
CDOHostName	CDOHostMachine
Domain	Adeptia
Home.Environment.DisplayName	Development
MailProtocol	smtp
SessionTimeOut	1440
abpm.AU_EDIFACTUNBDATA.txn.pid.column	TRANSACTIONPID
abpm.AU_EVENTLOG.cleanup.column	AU_LOGDATE
abpm.AU_EVENTLOG.logRetainTime	5
abpm.AU_INTERCHANGEDATA.txn.pid.column	TRANSACTIONPID
abpm.AU_LOG.cleanup.column	AU_LOGDATE
abpm.AU_LOG.logRetainTime	5
abpm.AU_PROCESSVARIABLETRACKER.cleanup.column	AU_ENDTIME
abpm.AU_PROCESSVARIABLETRACKER.logRetainTime	5

Figure 3: View System Configuration

UPDATING SYSTEM PROPERTIES

The System Properties can be updated to change the properties of the Adeptia Suite. For example, you can change the mail server settings, enable or disable clustering and database settings etc.



Only the users of *Admin* and *Sys Admin* type can update the System Properties.

Steps to update the system properties of the Adeptia Suite

1. Click **Administer** tab and then click **Setup** menu. All the options of the **Setup** menu are displayed.
2. Select **Application Settings** option. The **Application Settings** screen is displayed.
3. Click **Update System Properties**. The **Update System Properties** screen is displayed (see Figure 4).

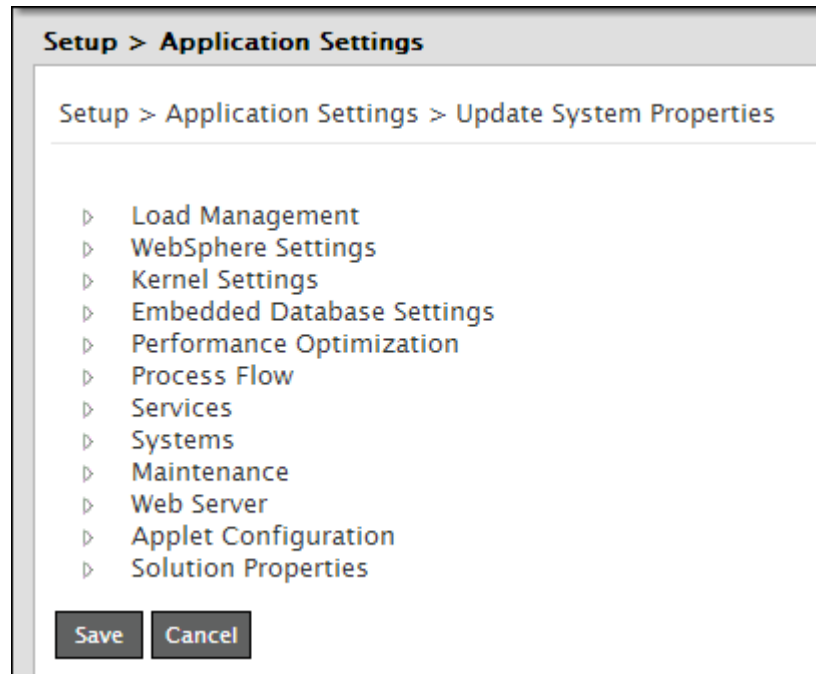



Figure 4: Update System Properties

- Click  to expand the required properties (see Figure 5).

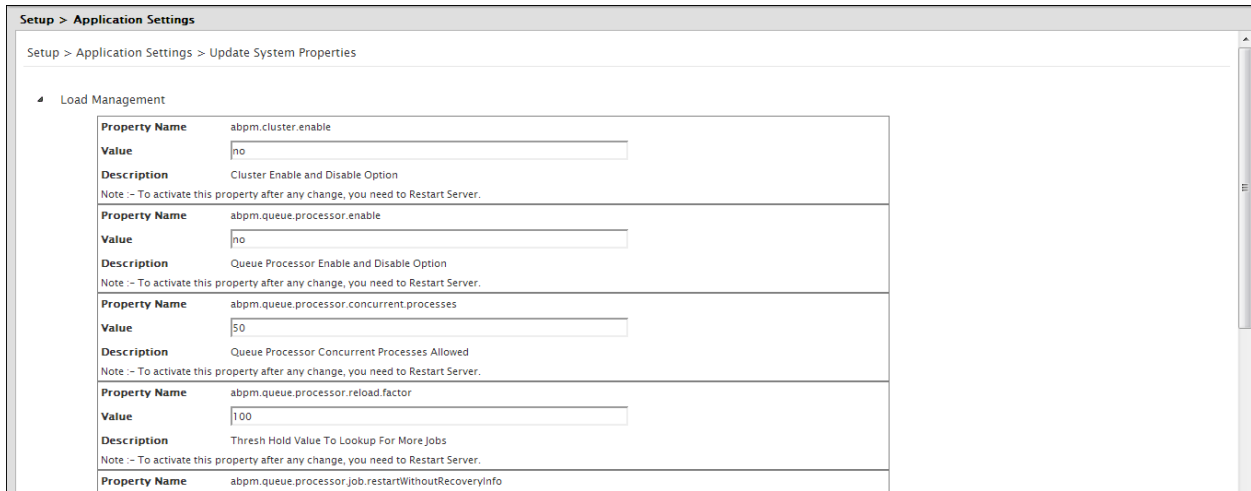


Figure 5: Expand Properties

- Edit the required properties and click **Save** button. A screen is displayed confirming that System Properties have been saved and you need to reload the configuration (see Figure 6).

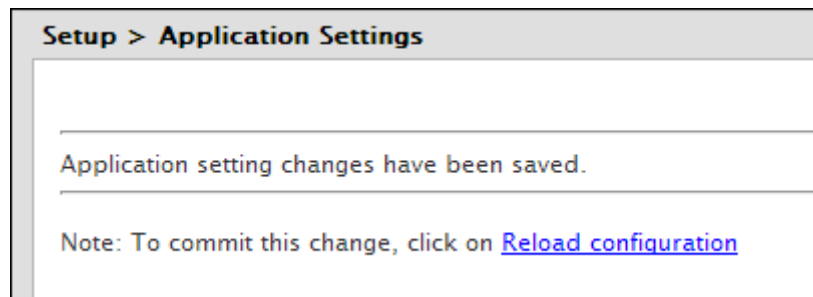



Figure 6: Reload Configuration

- To reload the configuration, click *Reload Configuration* link. A confirmation message is displayed that the configuration has been reloaded. If you do not want to reload the configuration changes right away, you can reload it later on. To know how to reload the configuration later on, refer the [Reloading System Configuration](#) section.



- Changes made in the System Properties do not come into effect until you reload the configuration.
- In case following note is written for any property and you have change the value of that property, then you need to restart the Kernel and WebRunner to bring the change into effect.
To activate this property after any change, you need to Restart Server.
- Value of the properties is not validated while editing. For detailed description of Adeptia Suite System Properties and their Possible Values, refer to Appendix A.

RELOADING SYSTEM CONFIGURATION

Reload ‘commits’ the changes made to the Adeptia Suite configuration system properties.

Steps to reload the System configuration

1. Click **Administer** tab and then click **Setup** menu. All the options of the **Setup** menu are displayed
2. Select **Application Settings** option. The Application Settings screen is displayed.
3. Click **Reload Configuration**. A screen is displayed confirming that the configuration has been reloaded.

CREATING AND MANAGING USER GROUPS

Groups enable easy organization and management of individual users of the Adeptia Suite. A Group, in essence, is a self-contained entity that can perform all of its work without affecting the work of another User Group. Each group has a *Group Admin*, responsible for creating and managing individual users within the group. The *Group Admin* can perform the same work as any regular user with an additional ability to manage users within its group as well.

In the Adeptia Suite this feature is available in:

EBIM Suite	BPM Suite	ESB Suite	ETL Suite
√	√	√	√

This chapter describes the following tasks:

- [Creating a user group](#)
- [Viewing properties of a user group](#)
- [Editing properties of a user group](#)
- [Deleting a user group](#)

CREATING A USER GROUP

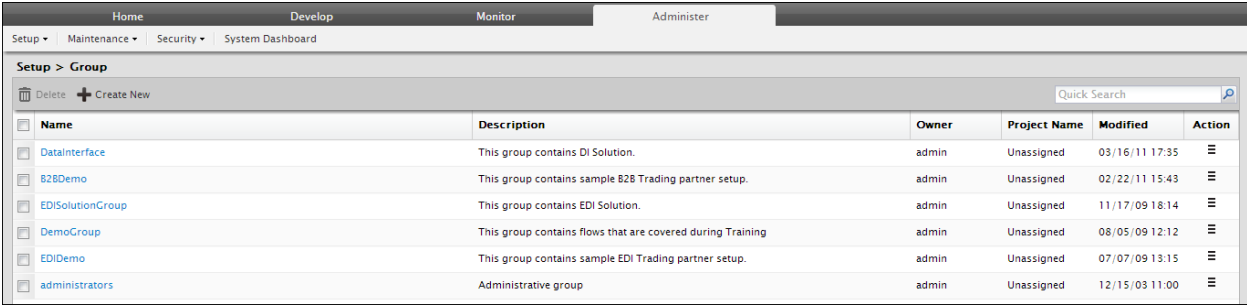
Prerequisites

- Only a user of *Admin* or *Sys Admin* type can create a User Group.

Steps to create a user group

1. Click **Administer** tab and then click **Setup** menu. All the options of the **Setup** menu are displayed.

2. Select **Group** option. The **Manage Group** screen is displayed (see Figure 7).

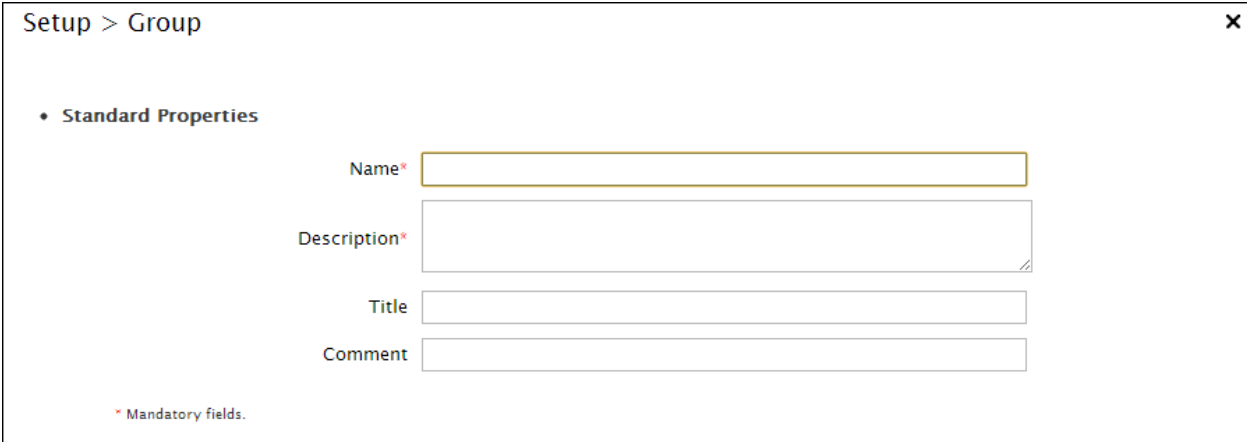


The screenshot shows the 'Setup > Group' management interface. At the top, there are navigation tabs: Home, Develop, Monitor, and Administer. Below these are menu items: Setup, Maintenance, Security, and System Dashboard. The main area is titled 'Setup > Group' and includes a 'Delete' button and a '+ Create New' button. A 'Quick Search' field is also present. The central part of the screen is a table listing existing groups.

Name	Description	Owner	Project Name	Modified	Action
DataInterface	This group contains DI Solution.	admin	Unassigned	03/16/11 17:35	[Action Icon]
B2BDemo	This group contains sample B2B Trading partner setup.	admin	Unassigned	02/22/11 15:43	[Action Icon]
EDISolutionGroup	This group contains EDI Solution.	admin	Unassigned	11/17/09 18:14	[Action Icon]
DemoGroup	This group contains flows that are covered during Training	admin	Unassigned	08/05/09 12:12	[Action Icon]
EDIDemo	This group contains sample EDI Trading partner setup.	admin	Unassigned	07/07/09 13:15	[Action Icon]
administrators	Administrative group	admin	Unassigned	12/15/03 11:00	[Action Icon]

Figure 7: Manage Group


3. Click the **Create New** button. The **Create Group** screen is displayed (see Figure 8).



The screenshot shows the 'Setup > Group' 'Create New' form. It has a close button (X) in the top right corner. Under the heading 'Standard Properties', there are four input fields: 'Name*' (a single-line text box), 'Description*' (a multi-line text area), 'Title' (a single-line text box), and 'Comment' (a single-line text box). A legend at the bottom left indicates that fields with an asterisk are mandatory.

Figure 8: Create Group

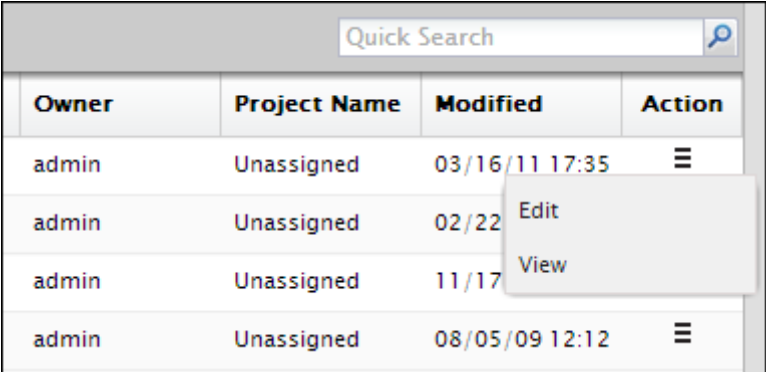
- 4. Enter the name and description of the Group in the **Name** and **Description** respectively.
- 5. Enter the group title and comments (if any) in the textboxes **Title** and **Comment** respectively.
- 6. Click the **Save** button. This displays a screen confirming that the User Group has been created successfully

 The Group name must be unique. You cannot create more than one group with the same name.

VIEWING USER GROUP PROPERTIES

Steps to view the properties of a user group

- 1. In the *Manage Group* screen, click the **Actions**  icon. The list of possible actions is displayed (see Figure 9).





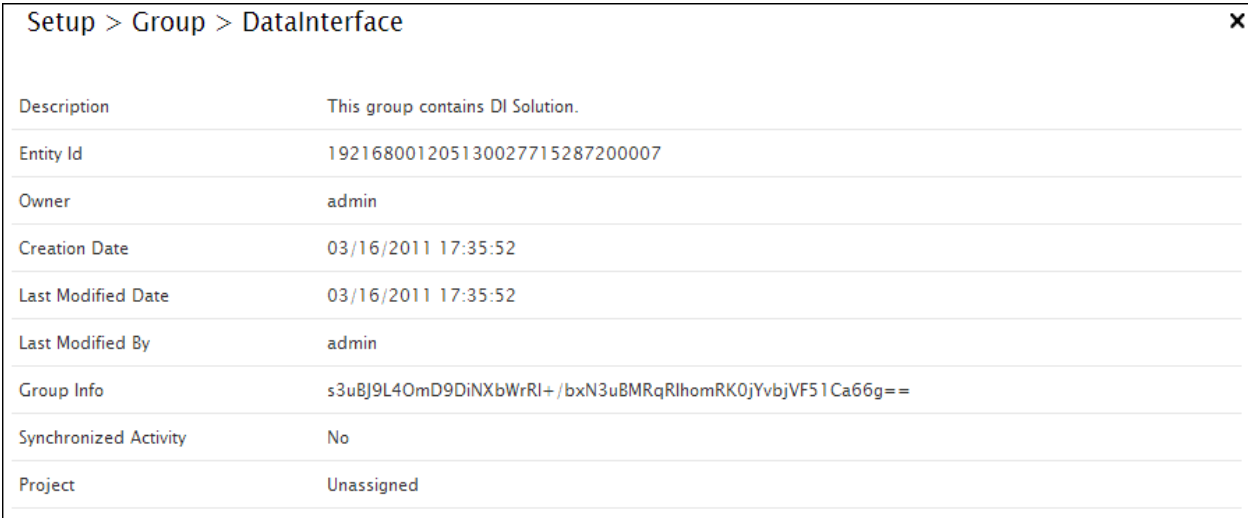
Owner	Project Name	Modified	Action
admin	Unassigned	03/16/11 17:35	
admin	Unassigned	02/22	Edit
admin	Unassigned	11/17	View
admin	Unassigned	08/05/09 12:12	

Figure 9: Actions List

- 2. Click **View** options. A screen is displayed showing the properties of the group (see Figure 10).



Setup > Group > DataInterface	
Description	This group contains DI Solution.
Entity Id	192168001205130027715287200007
Owner	admin
Creation Date	03/16/2011 17:35:52
Last Modified Date	03/16/2011 17:35:52
Last Modified By	admin
Group Info	s3uBJ9L4OmD9DiNXbWrRI+ /bxN3uBMRqRIhomRK0jYvbjVF51Ca66g==
Synchronized Activity	No
Project	Unassigned

Figure 10: View Group Properties

- 3. Click **Close**  button to close this screen and return to the *Manage Group* screen.

EDITING USER GROUP PROPERTIES


Steps to edit the properties of a user group

1. In the *Manage Group* screen, click the name of the group, which you want to edit. The *Group edit* screen is displayed, where you can change the name and description of a Group (see Figure 11).

The screenshot shows a web interface for editing a group. The breadcrumb is 'Setup > Group'. Under 'Standard Properties', there are four input fields: 'Name*' with the value 'B2BDemo', 'Description*' with the value 'This group contains sample B2B Trading partner setup.', 'Title', and 'Comment'. A legend indicates that fields with an asterisk are mandatory. At the bottom right, there are 'Save' and 'Save As' buttons.

Figure 11: Edit Group

2. After changing the properties, click **Save** button to save the changes. This displays a screen confirming that the User Group has been updated successfully.

 You cannot edit the Administrator group.

If you want to save a copy of a group, change the name of the group and click Save As button.

DELETING A USER GROUP

Steps to delete a user group

1. In the *Manage Group* screen, select the checkbox against the group that you want to delete. This activates the **Delete** button.
2. Click the **Delete** button. An application message is displayed to confirm the delete action (see Figure 12).

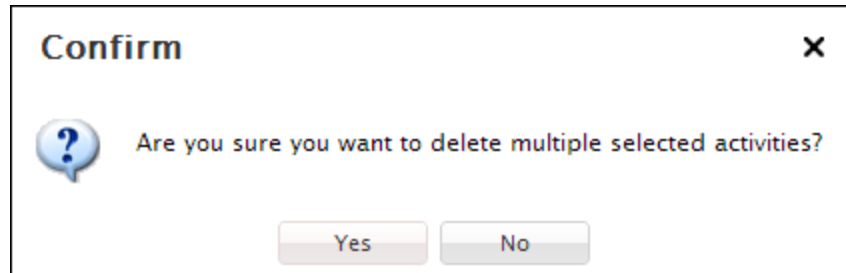


Figure 12: Confirm Deleting a Group

3. Click **Yes** button to delete the group, else click **No**.
4. If you click **Yes**, a screen is displayed confirming that the group has been deleted successfully.



- The *Administrators* group cannot be deleted.
- You can not delete a group, which has users in it. Before deleting a group, either you have delete all its user or move them to another group.
- Once a Group is deleted it cannot be recovered.

CREATING AND MANAGING USERS

Users are the individual members of a User Group. User can perform common tasks depending on the [permission levels](#) granted by the *Admin*.

In the Adeptia Suite this feature is available in:

EBIM Suite	BPM Suite	ESB Suite	ETL Suite
√	√	√	√

This chapter describes the following tasks:

- [Creating a User](#)
- [Viewing properties of a User](#)
- [Editing properties of a User](#)
- [Deleting a User](#)
- [Moving Objects of a User](#)
- [Managing Keystore of a User](#)

CREATING A USER

Prerequisites

1. You need to have Administrator privileges of *Sys Admin* or a *Group Admin* type.

Steps to create a user

1. Click **Administer** tab and then click **Setup** menu. All the options of the **Setup** menu are displayed.
2. Select **Users** option. The *Manage Users* screen is displayed (see Figure 13).

Name	Description	Owner	Project Name	Modified	Last Login	Group	User Type	Action
admin	Default Administrator	admin	Unassigned	01/23/13 19:13	02/04/13 15:33	administrators	sysadmin	⋮
diuser	diuser	admin	Unassigned	03/25/11 11:09	04/12/11 14:15	DataInterface	developer	⋮
B2BUser	Owner of sample B2B Trading Partner setup objects.	admin	Unassigned	02/22/11 15:45	03/17/11 15:50	B2BDemo	developer	⋮
demouser	Demo User	admin	Unassigned	11/20/09 16:12	11/24/09 15:28	DemoGroup	groupadmin	⋮
EDISolutionUser	Owner of EDI Solution objects.	admin	Unassigned	11/17/09 18:19	11/22/12 18:51	EDISolutionGr...	developer	⋮
demo_supervisor	demo supervisor	demouser	Unassigned	08/08/09 15:37	08/31/09 15:01	DemoGroup	businessUser	⋮
demo_manager	demo manager	demouser	Unassigned	08/08/09 15:36	08/31/09 15:07	DemoGroup	businessUser	⋮
EDIUser	Owner of sample EDI Trading Partner setup objects.	admin	Unassigned	07/07/09 13:25	05/09/11 17:18	EDIDemo	developer	⋮

Figure 13: Manage User page

3. Click the **Create New** button to create a new user. The **Create User** page is displayed.(see Figure 14)

The screenshot shows a web interface for creating a user. The breadcrumb is 'Setup > User'. Under the 'Standard Properties' section, there are the following fields:


- User ID*: B2BUser
- Description*: Owner of sample B2B Trading Partner setup objects.
- First Name*: User
- Last Name*: User
- Address1
- Address2
- City
- State
- Zip
- Country
- Fax
- Phone

Figure 14: Create User Page

4. Enter the User ID, Description, Name, Address, and other related information in their respective fields.
5. To select the User Permissions, check the required checkboxes. The various permissions entitle a user to various rights, as outlined in the table below.

Table 1: User Permissions

Permission	Description
Read	Read permission allows a user to view the Adeptia Suite activities and process flows. The <i>Read</i> checkbox is pre-selected and cannot be unchecked.
Write	Click to check the <i>Write</i> checkbox to grant the user the permission to create, edit, delete and Save As Adeptia Suite activities and process flows
Execute	Check the <i>Execute</i> checkbox to grant the user permission to execute a process flow.

 These user permissions are checked prior to object level permissions so as to allow a user to or restrict a user from performing any task.

6. Select the type of user from the **User Type** drop-down list. Adeptia support following types of users:

Table 2: Business User View Levels

User Types	Description
Sys Admin	A <i>Sys Admin</i> user has permissions equivalent to the Administrator. It can create and delete users and groups as well as perform all the tasks of a group admin, business or user developer. However, only Admin and Sys Admin users can update system properties, enable clustering, stop/pause the kernel and restart scheduler.
Group Admin	Each group has one or more " <i>admin</i> ", who is able to manage the users within that group. A <i>Group Admin</i> can create, edit and delete users within its group. He <i>can</i> also change the permissions of users and perform all the tasks of a developer.
Business User	A <i>Business user</i> has restricted rights. A <i>Business user</i> can only execute process flow, complete Human Workflow task and monitor the logs.
Developer	A Developer can create object such as activities and process flows etc. It also has rights to execute the process flows and monitor the logs.

- If Business User is selected, then select the level of view from the **Business User View Level** drop-down list. There are two types of Business User View Levels, as outlined in the table below.

Table 3: Business User View Levels

Level	Description
Normal	A Business User with Normal view can see Adeptia Suite report and logs. It can execute the process flow, complete the Human Workflow task and monitor the logs.
Limited	A Business User with Limited view can only view Task Manager and execute the assigned task. A Business User with Limited View cannot execute process flows. It cannot see Adeptia Suite reports and logs.

- You can select colleague of the User from the **Colleague** drop-down list.
- You can select Manager of the User from the **Manager** drop-down list.



Colleague or Manager can be any other user. These terms are used in Human Workflow. While assigning workflow task to any user, you can enable the option to defer the task to Manager or to Colleague if the task is becoming overdue. A Manager can monitor tasks assigned to its staff. Manager can defer a task to any other user, change the priority, Due date and Expiry Date of the task.

- Using calendar you can select the days on which user will not be available. To select days, click the **View** link in the **Calendar** field (see Figure 15).

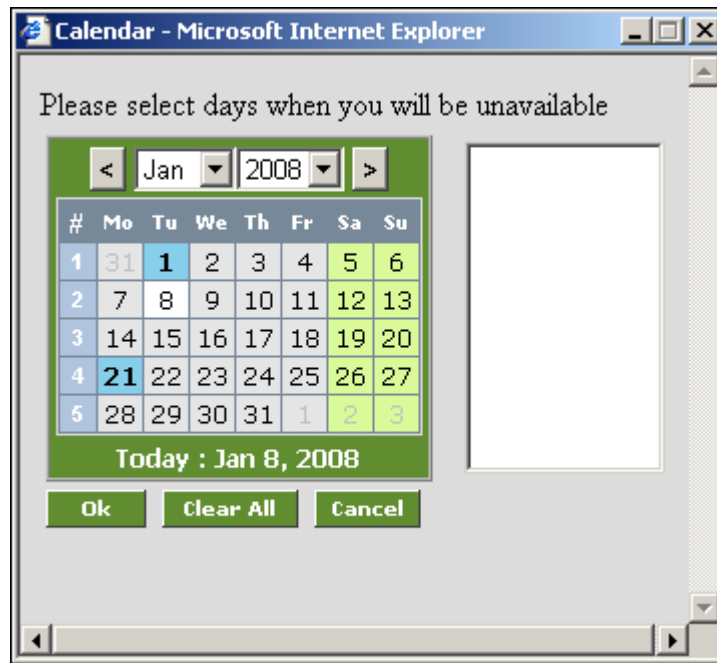


Figure 15: Calendar

- Click dates, user will not be available and then click **Submit** button.



While deferring a task of any user to this user, manager can view these dates from his own Home page.

- In the **Status** drop-down list, select the status of the user. The status of a user can be either Activate or Deactivate. The default status is **Activate**.



If you select **Deactivate**, the user is disabled and therefore cannot login into Adeptia Suite.

- In **Group** drop-down list, select the group to which user is being added. You can add the user to multiple groups. Press and hold the **<Ctrl>** key and select multiple groups.



A user can be a member of more than one group. But he can login and access objects associated with one group at a time. For example, a user is a member of two groups: Administrators and Executives. Both these groups vary in terms of objects. He can login as a member of either the Administrators or the Executives group at a time.

- Select the **Send Email Notification** checkbox to automatically send an email to the new user confirming the user creation. It is checked by default. Additionally, if the user changes his password, an email is automatically sent to the user stating that the password has been changed. If you do not want to send these notification emails, disable this checkbox (see Figure 16).

Business User View Level: Normal

Project: Unassigned

Group(s)*: DataInterface, B2BDemo, FDISolutionGroup

Colleague: None

Manager: None

Calendar: View

Send Email Notification:

* Mandatory fields.

Figure 16: Certificate Status

15. Click the **Save** button. This displays a screen confirming that the user has been created successfully.

i To learn how to manage digital certificates of users refer to section Managing Keystore of Users.

To learn how to use digital certificates to sign outgoing data and how to receive incoming data, which is digitally signed refer to the section Digital Certificate Activity.

VIEWING USER PROPERTIES

Steps to view the properties of a user

1. In the *Manage User* screen, click the **Actions** icon. The list of possible actions are displayed (see Figure 18).

Last Login	Group	User Type	Action
02/04/13 16:24	administrators	sysadmin	☰
04/12/11 14:15	DataInterface	develo	Edit
03/17/11 15:50	B2BDemo	develo	View
11/24/09 15:28	DemoGroup	groupa	Move Objects

Figure 5: Actions List

2. Click **View** options. A screen is displayed showing the properties of the user (see Figure 18).

Setup > User > B2BUser	
Description	Owner of sample B2B Trading Partner setup objects.
First Name	User
Last Name	User
Email	b2bUser@company.com
Password	*****
Group(s)	B2BDemo
User Type	developer
User Permissions	Owner(R,W,X)
Entity Id	192168001204129836975229500020
Owner	admin
Creation Date	02/22/2011 15:45:52
Last Modified Date	02/22/2011 15:45:52
Last Modified By	B2BUser
Last Password Changed	02/22/2011 15:45:52
Status	Activated
LastLogin	1300357209935

Figure 18: View User Properties

3. Click **Close** button to close this screen and return to the **User** screen.

EDITING USER PROPERTIES

Steps to edit the properties of user

1. In the *User Manage* screen, click the name of the user, which you want to edit. The *User edit* screen where you can change the properties of a User (see Figure 7).

The screenshot shows a window titled "Setup > User" with a close button in the top right corner. Below the title bar, there is a section labeled "Standard Properties" with a right-pointing arrow. The form contains the following fields:

- User ID***: A text box containing "B2BUser", which is highlighted with a blue selection box.
- Description***: A text area containing "Owner of sample B2B Trading Partner setup objects." with a small icon in the bottom right corner.
- First Name***: A text box containing "User".
- Last Name***: A text box containing "User".
- Address1**: An empty text box.
- Address2**: An empty text box.
- City**: An empty text box.
- State**: An empty text box.
- Zip**: An empty text box.
- Country**: An empty text box.
- Fax**: An empty text box.
- Phone**: An empty text box.

At the bottom right of the window, there are two buttons: "Save" and "Save As".

Figure 7: Edit User

4. After changing the properties, click **Save** button to save the changes. This displays a screen confirming that the user has been updated successfully.
5. Enter the comments in the **Add Comments** field.



The comment should be at least 1 character in length.

6. Click **OK** to save the comments. This displays a screen confirming that the user has been updated successfully.



By default, the **Comments** option is disabled. To enable it, refer to the section Updating System Properties.

DELETING A USER

Prerequisites

- Only a user of *Admin*, *Sys Admin* or *Group Admin* type can delete a User.

- Before deleting a user, you must de-activate the User.

Steps to delete a user

1. In the *User Manage* screen, select the checkbox against the user that you want to delete.
2. Click the deactivate button. A dialog box is displayed asking for confirmation of the deletion.
3. Click **Yes**. A message displayed the user has been deactivated successfully.
4. Click **OK** to close this dialog box.
5. Now again, select the checkbox against the user that you want to delete.
6. Click the **Delete** button. A screen is displayed for a confirmation to delete the user (see Figure 8).

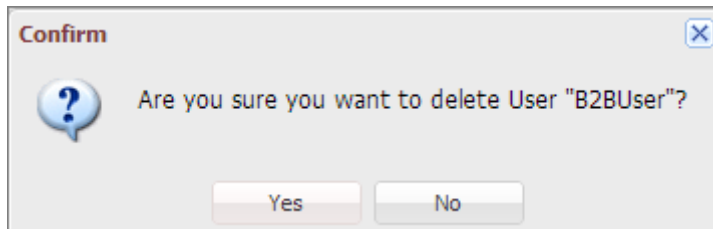


Figure 8: Confirm Deletion

7. Click **OK** to delete the user. Before being deleted, the user needs to transfer his objects to another user. The **Change Ownership** screen is displayed (see Figure 9).

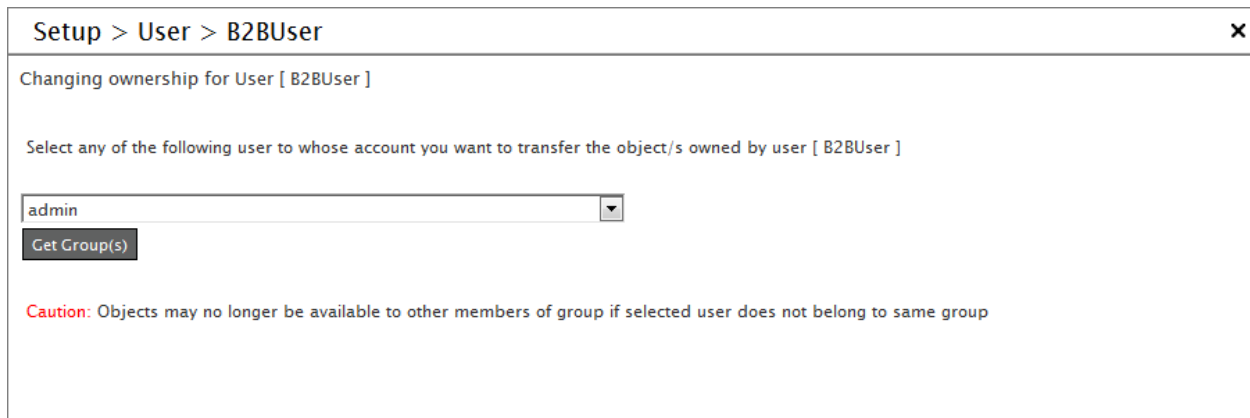



Figure 9: Change Ownership

 Once the user is deleted, his objects cannot be viewed by any other member of his group.

8. Select the user to whom you want to transfer the objects, from the drop-down list. Click **Get Group(s)** button to transfer the objects to the selected user's group. This displays the Select group screen (see Figure 10).

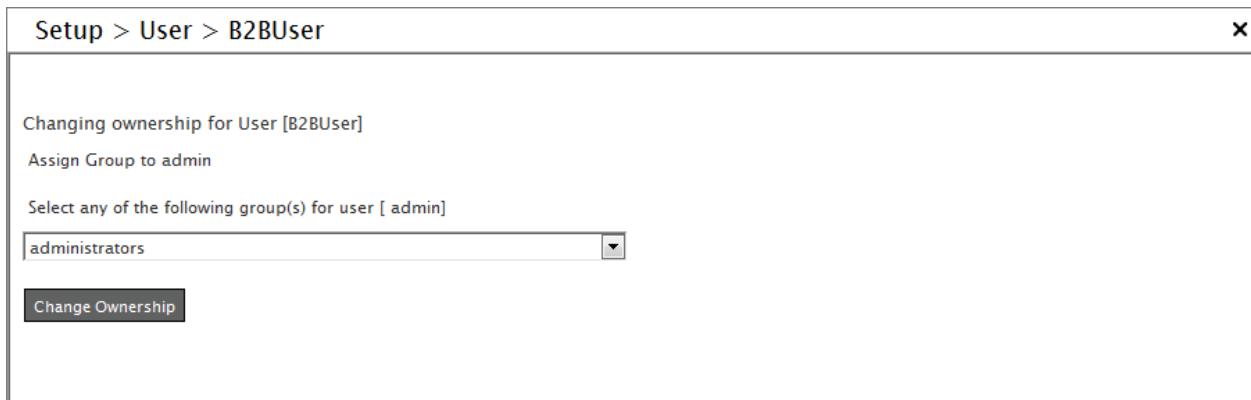



Figure 10: Select Group

9. Select the group to which you want to transfer the objects and click **Change Ownership** button. This displays the **Permanent Delete** screen (see Figure 11).

 The Group drop-down list displays only those groups, of which the selected user is a member.

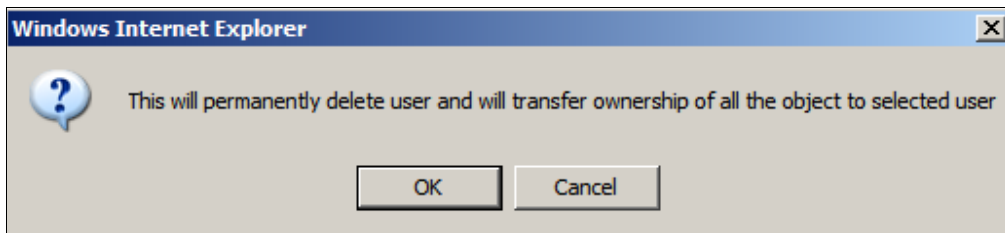


Figure 11: Permanent Delete

10. Click **OK** button to permanently delete the user. A screen is displayed with a message stating *“User activity permanently deleted successfully.”*

MOVING USER’S OBJECTS

Objects (activities, process flows etc.) of one user can be moved to another user. When you move objects from one user to another user, ownership of those objects is transferred to new user. If a user belongs to more than one group, it can move its object from one group to another group.

Steps to move object from one user to another User

1. In the *User Manage* screen, click the radio button against the user that you want to move and then click the **Move** link. The **Select Activities** screen is displayed with the list of activities belongs to the user (see Figure 12).

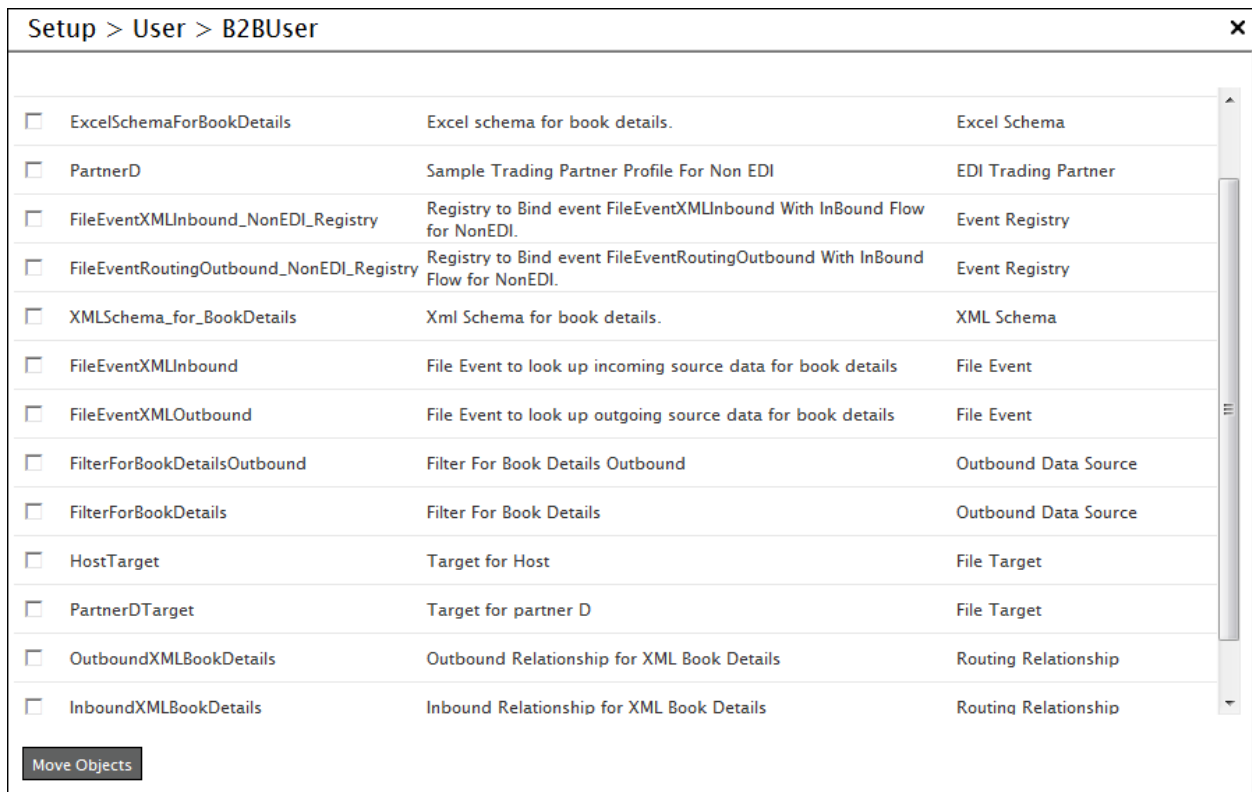


Figure 12: Select Objects

2. Select the required object(s) and click **Move Objects** button. The **Change Ownership** screen is displayed (refer to Figure 9).
3. Select the user to whom the objects will be moved, from the drop-down list and then click **Get Group(s)** button. The **Select Group** screen is displayed with Group(s), the selected User belongs to (refer to Figure 10).
4. Select the group, the user belong to and click **Change Ownership** button. A confirmation screen is displayed that the ownership of selected objects has been changed successfully.

MANAGING KEYSTORE OF USER

Keystore of a user is a protected repository that holds digital certificates owned by the user. Keystore is created during creation of the user. Access to a keystore is guarded by a password defined at the time of creation of user. Keystore is created only for those users whose certificate status is enabled during their creation.

Digital Certificate Activity

A Digital Certificate is an attachment to an electronic message that is used to maintain its integrity. The most common use of a digital certificate is to authenticate a user.

Admin and *Group Admin* can export the digital certificates of a user into a digital certificate directory and then import that digital certificate into the keystore of another user. The *Admin* also has the right to delete the digital certificate of a user.

CREATING A BUSINESS ROLE

In any business operation, it is required that a task can be assigned to all the users of a department. One way is to select all the users of the department one by one while assigning the task in the workflow. Another way is to make a group of users and assign the task to a group rather than assigning it to all the users. This group of users is called a Business Role. Task assigned to a Business Role is listed in the Task Manager of every user of the Business Role. Any one user of the Business Role can complete this task.

It should be noted that the Business Role is different than a User Group. The purpose of the User Group is to minimize the work of a user of *Sys Admin* or *Group Admin* type while giving access permissions on Adeptia Suite objects. On the other hand, the purpose of Business Role is to assign the task to a group of users.

In the Adeptia Suite this feature is available in:

EBIM Suite	BPM Suite	ESB Suite	ETL Suite
√	√		

Steps to create a Business Role

1. Click **Administer** tab and then click **Setup** menu. All the options of the **Setup** menu are displayed.
2. Select **Business Role** option. The **Manage Business Role** screen is displayed (see Figure 1).

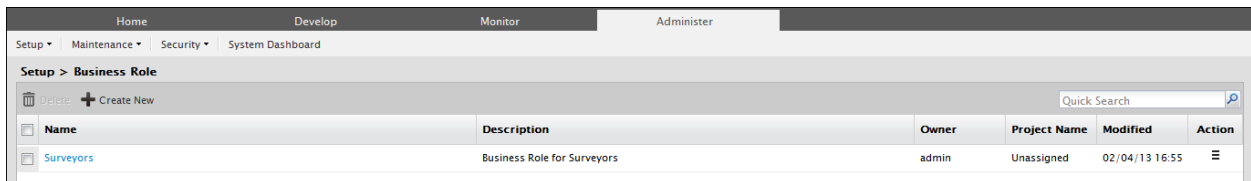
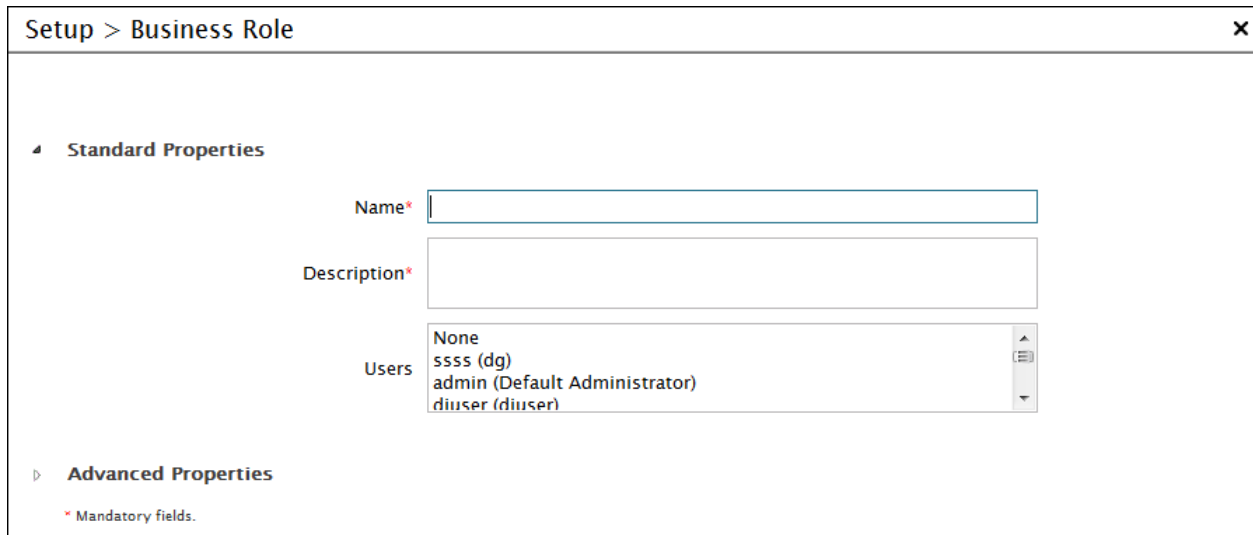


Figure 1: Manage Business Role

3. Click **Create New** button. The *Create Business Role* screen is displayed (see Figure 2).



Setup > Business Role

Standard Properties

Name*

Description*

Users

- None
- ssss (dg)
- admin (Default Administrator)
- diuser (diuser)

Advanced Properties

* Mandatory fields.

Figure 2: Create Business Role

4. Enter the name and description of the Business Role in the *Name* and *Description* fields respectively.
5. To select the users, press **<CTRL>** key and click users. The selected users are highlighted.
6. Click **Save** button. This displays a screen confirming that the Business Role has been created successfully.

MANAGING KERNEL AND SCHEDULER

At times, you may want to stop or pause the kernel without stopping it as a service (if the kernel is running as a service) or stopping it by pressing **<Ctrl> + <C>** from the console. In such cases you can stop or even pause the kernel from the GUI. When the kernel is stopped or paused, no requests for new process flows are executed.

In the Adeptia Suite this feature is available in:

EBIM Suite	BPM Suite	ESB Suite	ETL Suite
√	√	√	√

Process Flow Status when Kernel is Stopped

When the kernel is stopped, the system does not accept any new process flow requests for triggering. It just completes the existing process flows that are running, and then shuts down the kernel.

Process Flow Status when Kernel is Paused

When the kernel is paused, the system just completes the existing process flows that are running. However, it does not accept any new process flow requests for triggering. Additionally, it does not accept any waiting process flows which could be manual execution requests or those in the *Queue Processor*. When the kernel is paused, the *Queue Processor* is also paused. It does not activate any process flows or escalate them from the waiting queue to ready queue. It just maintains them in the queue list.

The pausing of the kernel pauses the scheduler too. It does not allow triggering of any process flows through any events except JMS and HTTP events. The pausing/resuming/stopping of scheduler synchronizes with the pausing/resuming/stopping of the kernel.



If sub processes are being executed with **Call** action when the kernel is paused or stopped, then they need to made recoverable with the **Call** action, when the process flow shuts down, as the parent process flow will not stop unless all child process flows are executed.

This chapter describes the following tasks:

- [Managing Kernel](#)
- [Managing Scheduler](#)

MANAGING KERNEL

Steps to manage the kernel

1. Click **Administer** tab and then click **Maintenance** menu. All the options of **Maintenance** menu are displayed.
2. Select **Kernel** option. The **Manage Kernel** screen is displayed showing the status of kernel (see Figure 1).

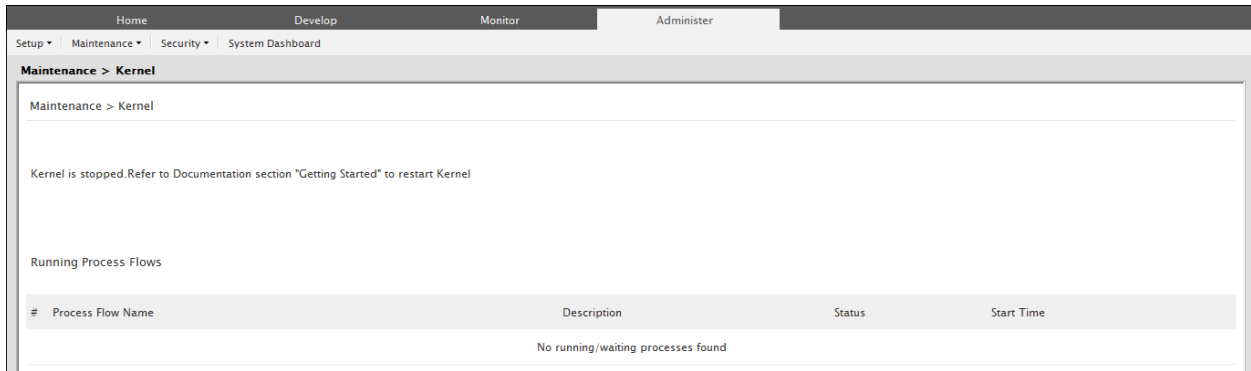



Figure 1: Change Kernel State

- This screen is divided into two parts. The first part displays the status of the kernel and allows you to change the status as and when required. The second part displays a list of process flows that are running (if kernel is running).
- To pause the Kernel, click **Pause Kernel** button on the Manage Kernel screen. A confirmation screen is displayed. Click **OK** to pause the Kernel. This pauses the Kernel and displays a screen with the message that the Kernel has been paused.

 The **Pause Kernel** button changes to **Resume Kernel**, once the Kernel is paused. When the Kernel is Paused, the list of running process flows is not displayed.

- To resume the Kernel, click **Resume Kernel** button. This resumes the Kernel and displays the Change Kernel State screen. Once the Kernel is resumed, it starts accepting new process flow requests for execution. The Queue Processor also activates and escalates process flows in queue, and the Scheduler resumes triggering of events.

MANAGING SCHEDULER

Scheduler is a component of Adeptia Suite that manages events and triggers process flows based on the occurrence of events. The normal state of the Scheduler is *Running*. However, it may be required to pause or stop occasionally for system performance or maintenance reasons. When the scheduler is Paused or Stopped, no scheduler supported Event will be fired.

In the Adeptia Suite this feature is available in:

EBIM Suite	BPM Suite	ESB Suite	ETL Suite
√	√	√	√

Events managed by the scheduler (time based events) are:

- File Event
- FTP Event
- Mail Event
- Database Event
- Timer Event
- Calendar Event

Self-driven events i.e. events that are not managed by the scheduler (action based events) are:

- JMS Event
- HTTP Event

Misfire Event Handling

An event may not be fired at the scheduled time due to multiple reasons. These are outlined as:

No thread is available (refer to [org.quartz.threadPool.threadCount](#) property)

System is busy

When the event is not fired at the scheduled time, it is considered as a delayed event. The delayed event will be fired, when the thread becomes available or the system is not too busy. This will happen as long as delay is not more than misfire threshold. If delay is more than misfire threshold, event is considered as a misfired event. The misfire threshold is specified by following parameter defined in quartz.properties file:

org.quartz.jobStore.misfireThreshold = 60000

60000 = 60 Seconds

60 seconds is the default value of misfire threshold, which can be changed, based on your requirements.

Misfired events are handled based on two factors:

- Smart Misfire Policy
- Repeat Count


The Smart Misfire Policy is dependent on the Repeat Count value. In case of all events except Timer event, the Repeat Count value is Infinity. However, in case of a Timer event, the Repeat Count value is based on the Expiry Criteria value. This is described in the table below.

Table 4: Repeat Count Value of Timer Event and Misfire Policy

Expiry Criteria	Repeat Count	Misfire Policy
Timer Event- Run only Once	0	The misfired event will be triggered only once
Timer Event- Repeat Count specified value e.g. 10	Specified value e.g. 10	All misfired events and the remaining events will be triggered. The number of misfired event triggered at a time is controlled by org.quartz.jobStore.maxMisfiresToHandleAtATime properties defined the quartz.properties file.
Timer Event-Expiry by Date/time or All other Events	Infinity	Only the remaining events will be triggered. All misfired events will be lost.


Firing of Events when Scheduler is Stopped

The events that are scheduled to fire while the scheduler is stopped will be fired upon restarting of the scheduler based on the Repeat Count value as described in Table 4 .

 When the scheduler is stopped, events cannot be activated or deactivated.

Firing of Events when Scheduler is Paused

When the scheduler is paused, the events that are scheduled to be fired will not be triggered. When the scheduler is resumed, only the remaining events will be triggered. The misfired events will be lost.

 When the scheduler is paused, events can be activated, but they will not trigger.

Scheduler Related Properties

For scheduler related properties, you can refer to the quartz.properties file that is located in the `../..AdeptiaServer-6.0/ServerKernel` directory. These include:

org.quartz.jobStore.maxMisfiresToHandleAtATime

Description	This property is used to define the maximum number of misfired triggers that the jobstore can handle at a given time
Default Value	5
Possible Values	1-100
Selection Criteria	NA
Comments	If the jobstore handles many triggers at once then the database tables could get locked, thus hampering the performance of other triggers. This property limits the maximum number of misfired events that can be fired at a time. If there are numerous misfired events, then they are fired in batches.

org.quartz.jobStore.misfireThreshold

Description	This property is used to define the number of milliseconds that the scheduler will retain a trigger, before passing it to the next firing time, before it is considered as misfired
Default Value	60000
Possible Values	Any positive integer
Selection Criteria	
Comments	

org.quartz.threadPool.threadCount

Description	This property is used to define the number of threads available for concurrent execution of jobs (for firing of events)
--------------------	--

Default Value	15
Possible Values	1-100
Selection Criteria	NA
Comments	If only few jobs are fired a few times in a day, then 1 thread is sufficient. If thousands of jobs are fired every minute, then 50 or 100 threads are required, based on the jobs count and system resources.

Steps to manage the scheduler

1. Click **Administer** tab and then click **Maintenance** menu. All the options of **Maintenance** menu are displayed.
2. Select **Scheduler** option. The *Manage Scheduler* screen is displayed showing the status of scheduler (see Figure 2).

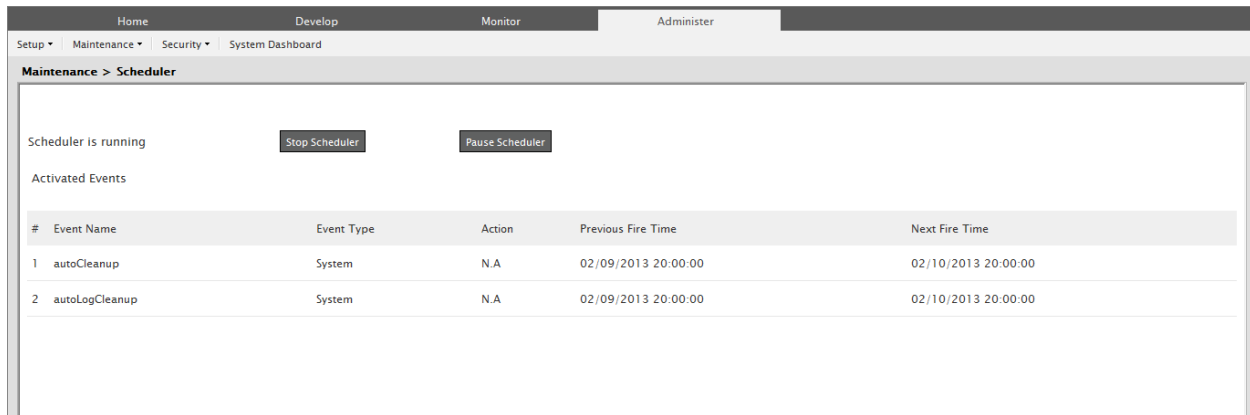




Figure 2: Change Scheduler State

3. This screen is divided into two parts. The first part displays the status of the scheduler and allows you to change the status as and when required. The second part displays a list of events that are activated (only if scheduler is running). You can deactivate an event by clicking **Deactivate** against the event. This will deactivate the event and remove it from the list.

 The autoCleanup and autoLogCleanup events cannot be deactivated as they are generated by the system.

4. To view an event, click the **View** link against the required event. The properties of the event are displayed.
5. To stop the Scheduler, click **Stop Scheduler** button. A screen is displayed showing that scheduler stopped successfully.
6. To start the scheduler, in the Change Scheduler State screen, click **Start Scheduler**. A screen is displayed showing that the scheduler started successfully.
7. To pause the Scheduler, click **Pause Scheduler** button. A screen is displayed showing that scheduler stopped successfully.

 The **Pause Scheduler** button changes to **Resume Scheduler**, once the scheduler is paused. When the scheduler is Stopped or Paused, the list of activated events is not displayed.

- To resume the scheduler, click **Resume Scheduler** button. This resumes the scheduler and displays the scheduler screen.

8

MANAGING SECRET KEY

A secret key helps you to create encryption or decryption activity. Encryption and decryption activities are required to encrypt outgoing data and decrypt incoming data respectively.

In the Adeptia Suite, this feature is available in:

EBIM Suite	BPM Suite	ESB Suite	ETL Suite
√	√	√	√

This chapter describes the following tasks:

- [Creating Secret Key](#)
- [Exporting Secret Key](#)
- [Importing Secret Key](#)
- [Creating Keystore](#)
- [Exporting Certificate from the Keystore](#)
- [Importing Certificate into the Keystore](#)

CREATING SECRET KEY

Steps to create a Secret Key activity

- Click **Administer** tab and then click **Security** menu. All the options of the **Security** menu are displayed.
- Select **Secret Key** option. The **Manage Secret Key** screen is displayed (see Figure 1).

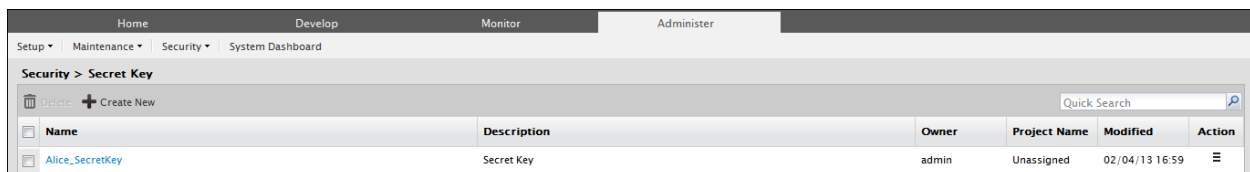


Figure 1: Manage Secret Key

3. Click **Create New** link. The **Create Secret Key Activity** screen is displayed (see Figure 2).

Security > Secret Key

Standard Properties

Name* Alice_SecretKey

Description* Secret Key

Secret Key Password ●●●●●

Confirm Password ●●●●●

Advanced Properties

* Mandatory fields.

Figure 2: Create Secret Key Activity

4. Enter the name and description of the new Secret Key in the textboxes **Name** and **Description** fields respectively.
5. Enter the password in the textboxes **Secret Key Password** and **Confirm Password** respectively.



To learn about Advanced Properties refer to Developer Guide.

6. Click **Save** button. This displays a screen confirming that the Secret Key activity has been created successfully.

EXPORTING SECRET KEY

Steps to export a Secret Key

1. In the *Manage Secret Key* screen, click the **Actions**  icon. The list of possible actions are displayed (see Figure 3).

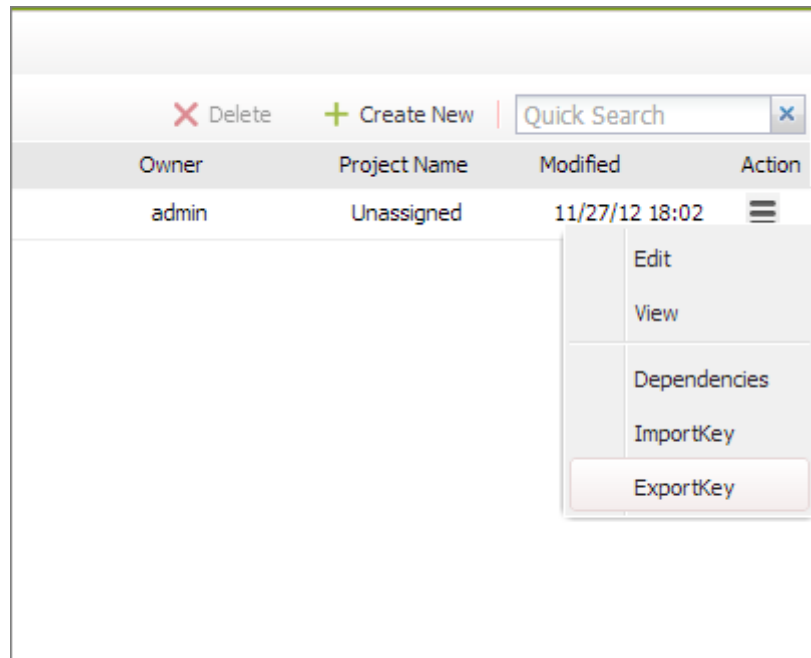


Figure 3: Export Secret Key


2. Click *Export Key* option. A screen is displayed confirming that the Secret Key has been exported successfully.



The exported Secret Key is stored in
 ../../AdeptiaServer-6.0/ServerKernel/etc/security/secret keys folder.

IMPORTING SECRET KEY

Steps to import a Secret Key

1. In the **Manage User** screen, click the **Actions**  icon. The list of possible actions are displayed (see Figure 4).

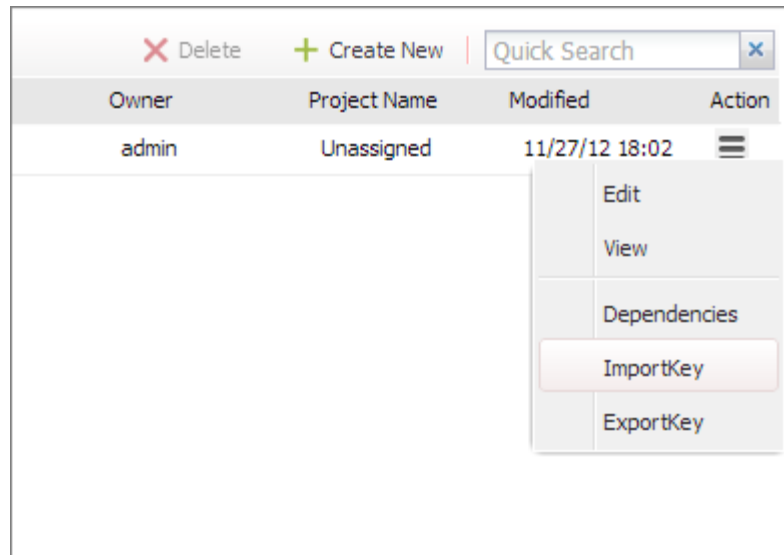


Figure 4: Import Secret Key

2. Click **Import Key** option. The **Import Secret Key** screen is displayed (see Figure 5).

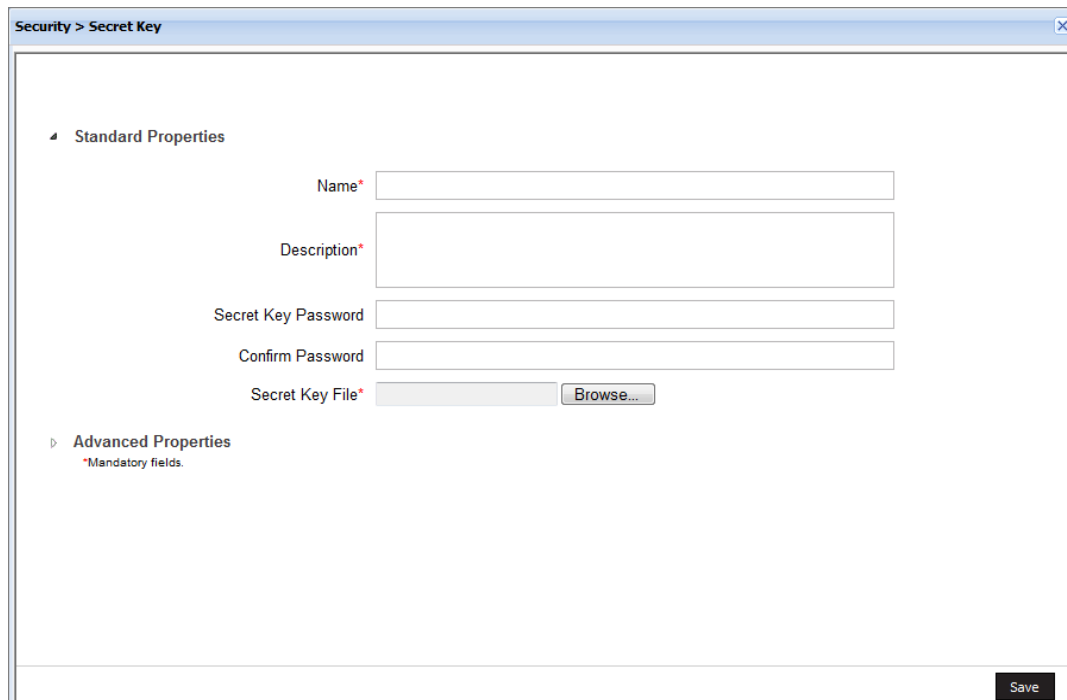



Figure 5: Import Secret Key

3. Enter the name and description for the Import Secret Key activity in the textboxes **Name** and **Description** respectively.
4. Enter the Secret Key to be used for encryption and decryption in textboxes **Secret Key Password** and **Confirm Password** fields respectively.

- Click **Browse** button and select the Secret Key file to be imported from `../../AdeptiaServer-6.0/ServerKernel/etc/security/keystore` folder. The path of Secret Key file is displayed in **SecretKey File** textbox (see Figure 6).

Figure 6: Select Secret Key File

 To learn about Advanced Properties refer to the Developer Guide.

- Click **Save** button. A screen is displayed confirming that the Secret Key activity has been imported successfully.

CREATING KEYSTORE

Steps to create Keystore

- Click **Administer** tab and then click **Security** menu. All the options of the **Security** menu are displayed.
- Select **Keystore** option. The **Manage Keystore** screen is displayed (see Figure 7).

Name	Description	Owner	Project Name	Modified	Action
Adeptia_Keystore	Adeptia Default Keystore	admin	Unassigned	02/09/13 23:54	

Figure 7: Manage Keystore

- Click **New** link. The **Create Keystore** screen is displayed (see Figure 8).

Security > Keystore

▸ Standard Properties

Upload Keystore

Name *

Description *

Keystore Type *

Alias

Key Algorithm

Key Size

Common Name

Organization Unit

Organization Name

Locality

State

Country

Validity

Signature Algorithm

Keystore Password*

Confirm Password *

Private Key Password*

Confirm Password *

▾ Advanced Properties
* Mandatory fields.


Figure 8: Create Keystore

- To create a new keystore enter the name and description of the keystore activity in textboxes **Name** and **Description** respectively.
- Enter values in all the fields and click **Save**. It creates a keystore and the private public key pair inside the keystore.
- Alternately you can define a keystore by uploading the existing keystore.

To upload the keystore:

- Enter the name and description in the textboxes **Name** and **Description**.
- Select the keystore type from the drop-down list **Keystore**.


9. Enter the keystore password in **Keystore Password** and **Confirmed Password** field.
10. Click the **Upload Keystore** button and select the keystore.
11. After uploading the keystore, select the alias from the drop-down list **Alias**.
Rest of the fields is populated automatically.
12. Click **Save**.



Keystore with multiple key entries is not supported.

EXPORTING CERTIFICATE FROM KEYSTORE

Steps to export certificate from the Keystore

1. In the **Manage Keystore** screen, click the **Actions**  icon. The list of possible actions are displayed (see figure below).

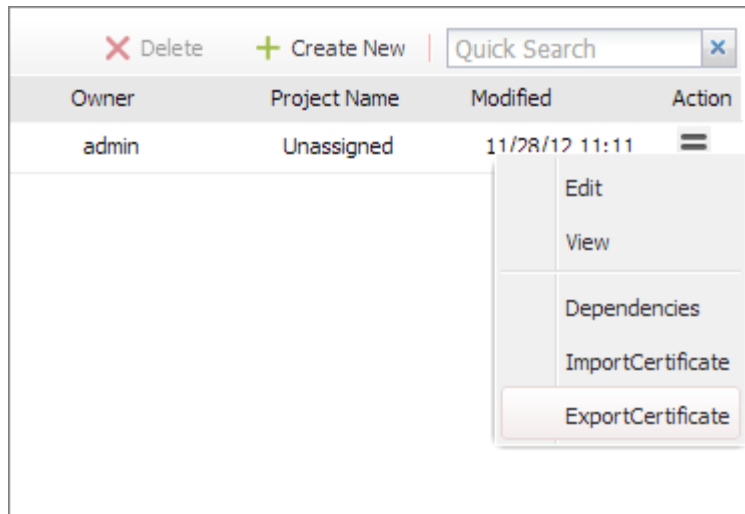


Figure 9: Create Keystore

2. Click **Export Certificate** option. **Export Certificate** screen is displayed (see Figure 10).



Figure 10: Export Certificate

3. Select the **Alias** name of the certificate, which you want to export and click **the Export** button. The selected certificate is exported in **/ServerKernel/ etc/security/WSdigitalcertificate** folder (see Figure 11).



Figure 11: Download Certificate

4. To view or download, the certificate click the **View/Download** link.

IMPORTING CERTIFICATE INTO KEYSTORE

Steps to import certificate into Keystore

1. In the **Manage Keystore** screen, click the **Actions** icon. The list of possible actions are displayed (see Figure 12).

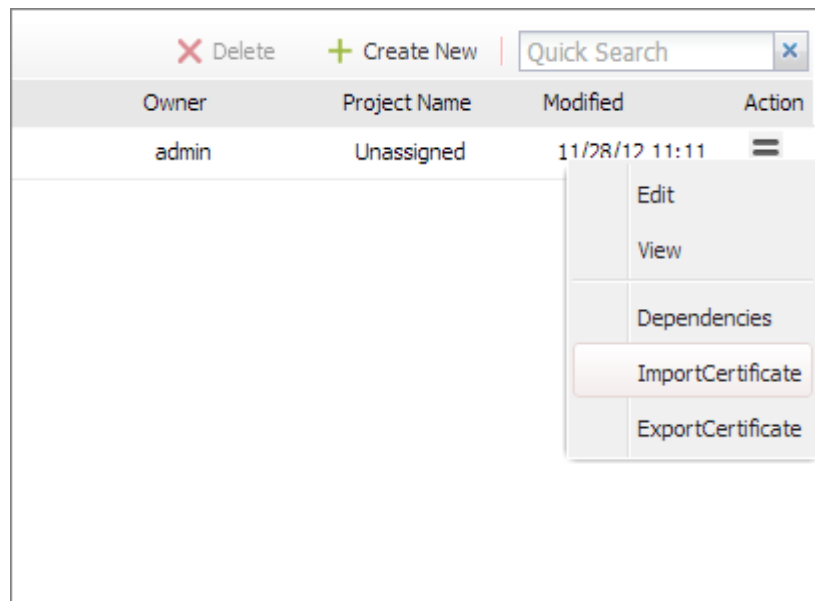


Figure 12: Create Keystore

2. Click **Import Certificate** option. The **Import Certificate** screen is displayed (see Figure 13).

Security > Keystore

Import Certificate for Adeptia_Keystore (192168001005136043428140600003)

Certificate Path* Browse...

Alias Name*

Save

Figure 13: Import Certificate

3. Click the **Browse** button and select the certificate that you want to import.
4. Enter the alias name in the **Alias Name** field.
5. Click **Save**. The selected certificate is imported in the selected keystore.

MONITORING ADEPTIA SUITE USING SYSTEM DASHBOARD

System Dashboard allows you to view running Process flows and memory usage of the system. It displays information about the nodes that are part of cluster, details of each node in the cluster and the Process Flow Execution Report. It provides information about the following:

- Cluster Nodes (Nodes of the Cluster)
- Details of each Node
- Kernel Memory usage
- Process Flow Status

In the Adeptia Suite this feature is available in:

EBIM Suite	BPM Suite	ESB Suite	ETL Suite
√	√	√	√

This chapter describes the following tasks:

- [Monitoring Adeptia Suite Node](#)

MONITORING ADEPTIA SUITE NODE

Steps to monitor Adeptia Suite Cluster

1. Click **Administer** tab and then click **System Dashboard** menu. The *System Dashboard* screen is displayed (see Figure 1).

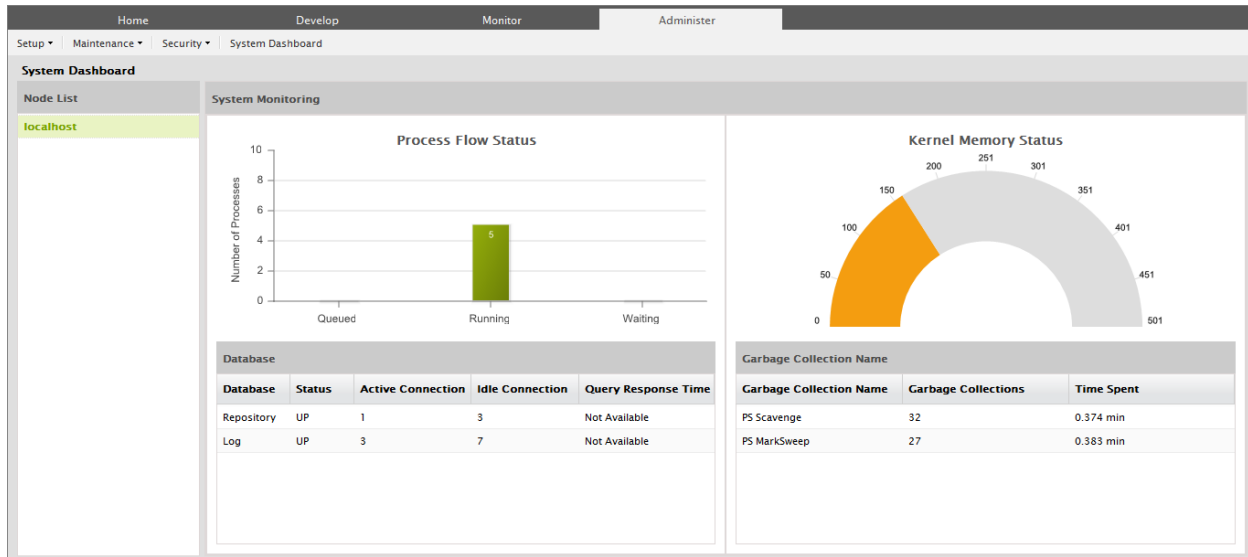


Figure 1: Adeptia Suite Cluster Status

2. The **Monitoring** applet is divided into two parts. The left pane displays the list of Adeptia Servers that can be monitored. The right pane displays the details of the Server selected in the left pane.

Details of the Sever, which are displayed in the right panel, are listed below:

- Queued, Running and Waiting Process flows.
- Total memory committed to Kernel and the memory used by Kernel.
- Status of Logs and Repository (Backend Database)
- Garbage collection information of Kernel JVM.



By default, Query Response Time of Log and Repository database is not displayed. In case you want to view the Query response time, then refer to [Monitoring Query Response Time](#) section.

DEPLOYING CLUSTERING

Adeptia Suite provides integrated clustering services to deliver higher levels of service and availability. A cluster is a group of independent Adeptia Suites working collectively as a single system. Clustering provides high-availability, scalability, and manageability for resources and applications by grouping multiple servers running Adeptia Suite.

Clustering is used for:

- **Load Balancing:** This is used to distribute the execution of process flows evenly between the members of the cluster so that no single Adeptia Suite is overloaded. Load balancing is especially important for networks where it is difficult to predict the number of requests that is issued to a server. Adeptia Suite supports Round- Robin method for load balancing.
- **Fail Over Capability:** When one of the Adeptia Suites in a cluster environment fails then other Adeptia Suites detect this failure and automatically handle any new process flow execution request.
- **Scalability:** Cluster services can grow to meet rising demands. When the overall load exceeds the capabilities of the cluster, additional nodes can be added.

The first Adeptia Suite to start in a cluster is designated as a server Node and all subsequent Adeptia Suites are designated as member nodes in that cluster. The Server node regularly checks the member nodes for their status to determine their availability for process flow execution. In case of a server node failure, one of the member nodes (node with maximum up time) automatically takes over the responsibility of the server node for managing load distribution in the cluster.

In the Adeptia Suite this feature is available in:

EBIM Suite	BPM Suite	ESB Suite	ETL Suite
√	√	√	√

This chapter describes the following tasks:

- [Enabling Clustering service](#)
- [Starting Adeptia Suite in Clustering mode](#)
- [Viewing Clustering status](#)

ENABLING CLUSTERING SERVICE

Clustering service, by default, is disabled. To enable clustering, you need to enable clustering, as described below, in each of the node of the cluster.

Prerequisites

Adeptia Suite must be installed on each node of the cluster.

- All the nodes of the cluster should use same backend and log database defined in server-configure.properties file in the `../..../AdeptiaServer-6.0/ServerKernel/etc` folder.



When you install Adeptia Suite, no option is displayed to select the backend database. You can only configure the log database.

By default HSQLDB, which is an embedded database, is used as backend.

To use a common database as backend, you need to run the installer from the command prompt with an additional argument. as shown below:

install.exe -DConfigureBackendDatabase=true

When you use the above command to start the execution, an additional screen is displayed, where you can select the database to be used as backend. Enter the required configuration of database, which will be used as backend. In all subsequent installation, select the same database as backend. In this way, the same database will be used as backend.

- Date and time of all the nodes must be same.
- Nodes of the cluster should be started in sequence. It means Kernel and WebRunner of one node must be started completely before starting them on other node.

Steps to enable Clustering service

1. Click **Administer** tab and then click **Setup** menu. All the options of the **Setup** menu are displayed.
2. Select **Application Settings** option. The *Application Settings* screen is displayed (see Figure 2).

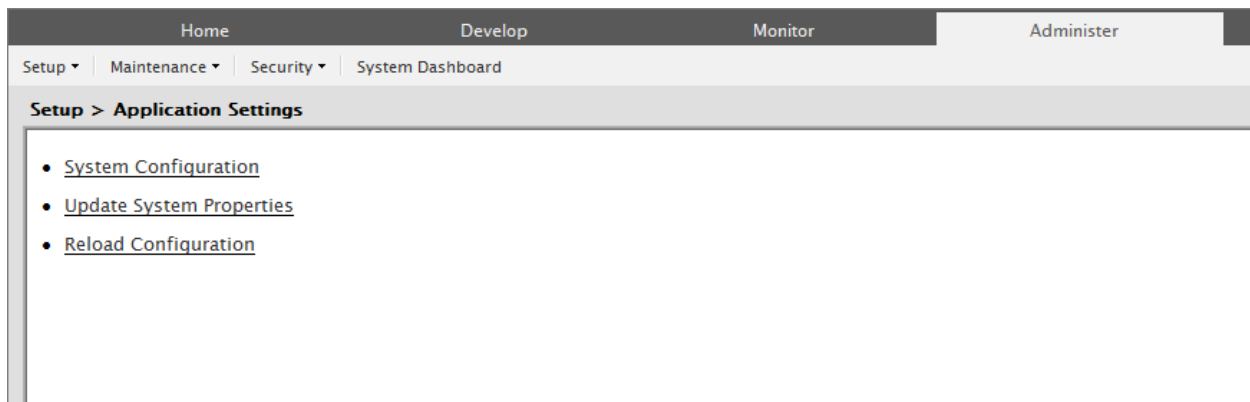


Figure 2: Application Settings

3. Click **Update System Properties**. The **Update System Properties** screen is displayed (see Figure 3).

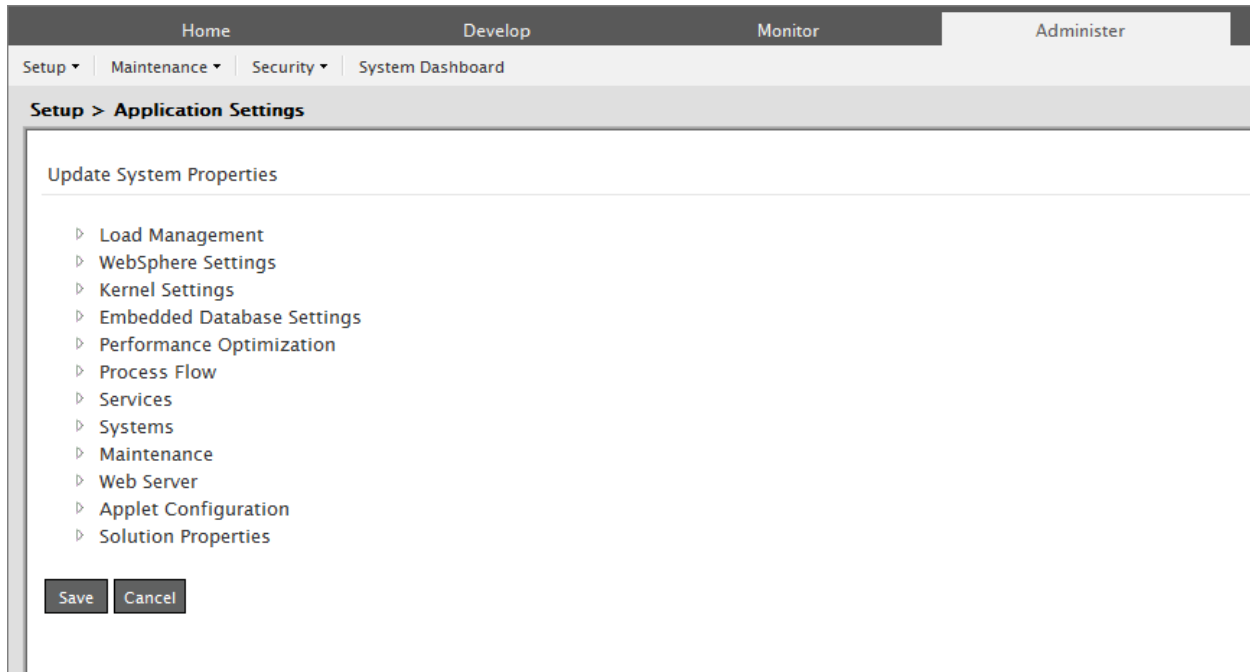


Figure 3: Update System Properties

4. Click  to expand **Load Management** (see Figure 4).

▸ Load Management

Property Name	abpm.cluster.enable
Value	<input type="text" value="no"/>
Description	Cluster Enable and Disable Option
Note :- To activate this property after any change, you need to Restart Server.	
Property Name	abpm.queue.processor.enable
Value	<input type="text" value="yes"/>
Description	Queue Processor Enable and Disable Option
Note :- To activate this property after any change, you need to Restart Server.	
Property Name	abpm.queue.processor.concurrent.processes
Value	<input type="text" value="25"/>
Description	Queue Processor Concurrent Processes Allowed
Note :- To activate this property after any change, you need to Restart Server.	
Property Name	abpm.queue.processor.reload.factor
Value	<input type="text" value="100"/>
Description	Thresh Hold Value To Lookup For More Jobs
Note :- To activate this property after any change, you need to Restart Server.	
Property Name	abpm.queue.processor.job.restartWithoutRecoveryInfo
Value	<input type="text" value="no"/>
Description	Restart Uncompleted Jobs(Process Flows) Without Recovery Information
Note :- To activate this property after any change, you need to Restart Server.	

Figure 4: Expand Load Management Properties

5. In **Value** field of the property *abpm.cluster.enable*, replace *no* with *yes* (see Figure 5).

▸ Load Management

Property Name	abpm.cluster.enable
Value	<input type="text" value="yes"/>
Description	Cluster Enable and Disable Option
Note :- To activate this property after any change, you need to Restart Server.	

Figure 5: Edit Load Management Properties

6. Click **[+]** to expand **Kernel Settings** (see Figure 6).

Kernel Settings	
Property Name	abpm.node.name
Value	<input type="text" value="localhost"/>
Description	Cluster Node Name
Note :- To activate this property after any change, you need to Restart Server.	
Property Name	abpm.node.port
Value	<input type="text" value="21000"/>
Description	Cluster Node Port
Note :- To activate this property after any change, you need to Restart Server.	
Property Name	abpm.repository.address
Value	<input type="text" value="localhost://indigo.core:service=repository"/>
Description	Repository Address
Note :- To activate this property after any change, you need to Restart Server.	
Property Name	abpm.repository.root
Value	<input type="text" value="web/repository"/>
Description	Server Repository Path
Note :- To activate this property after any change, you need to Restart Server.	
Property Name	abpm.kernelout.file.enable
Value	<input type="text" value="true"/>
Description	Enable Kernel output to a file
Note :- To activate this property after any change, you need to Restart Server.	
Property Name	abpm.kernelout.file.location
Value	<input type="text" value="logs/applicationlogs"/>
Description	Kernel output file location
Note :- To activate this property after any change, you need to Restart Server.	
Property Name	abpm.kernelout.file.maxSize
Value	<input type="text" value="20"/>
Description	Kernel output file maximum size(in MB)
Note :- To activate this property after any change, you need to Restart Server.	

Figure 6: Edit Kernel Settings Properties

7. In **Value** column of the property *abpm.node.name*, replace localhost with the IP address of the server on which the Adeptia Suite is installed.



For example, if the IP address of the server where Adeptia Suite is installed is '192.168.1.1' the value should be 192.168.1.1 .

8. In **Value** column of the property *abpm.repository.address*, replace the localhost with the IP address of the Server on which the Adeptia Suite is installed (see Figure 7).



For example, if the name of the Server where Adeptia Suite is installed is '192.168.1.1' the value should be 192.168.1.1://indigo.core:service=repository.

Kernel Settings	
Property Name	abpm.node.name
Value	<input type="text" value="192.168.1.1"/>
Description	Cluster Node Name
Note :- To activate this property after any change, you need to Restart Server.	
Property Name	abpm.node.port
Value	<input type="text" value="21000"/>
Description	Cluster Node Port
Note :- To activate this property after any change, you need to Restart Server.	
Property Name	abpm.repository.address
Value	<input type="text" value="192.168.1.1://indigo.core:service=repository"/>
Description	Repository Address
Note :- To activate this property after any change, you need to Restart Server.	

Figure 7: Enable Clustering

9. The value of property *abpm.repository.root* must be same for all nodes of the cluster. This property defines a location where intermediate data files are stored for each of the nodes. Preferably this should be a shared folder in the network, which can be accessed by all the nodes of the cluster, for example [\\192.168.1.1\Repository](#). Here 192.168.1.1 is the IP address and Repository is the shared folder. There should not be any username/password required to connect to this folder.
10. Click **Save** button to save the changes. A screen is displayed confirming that system properties have been saved.



Changes made in the System properties do not come into effect until you restart the Kernel and WebRunner. So restart the Kernel and WebRunner.

11. Go to the folder `../AdeptiaServer-6.0/ServerKernel/etc/Cluster` on the server where Adeptia Suite is installed.
12. Open the `clustering-service.xml` file in text editor. The contents of the file are as displayed in Figure 8.

```
<?xml version="1.0" encoding="UTF-8"?>
<mbeans-descriptors>
  <mbean
    descriptor="com.adeptia.indigo.cluster.ClusterMember"
    name="bpm.core.cluster:name=BPMCluster,node=node1" port="21000">
  </mbean>
</mbeans-descriptors>
```

Figure 8: XML File in Text Editor

13. Replace the word *node1* with the IP address of the server where Adeptia Suite is installed and will be a part of the cluster. When a Adeptia Suite starts in cluster environment, it looks for the IP address of server, where it has been installed in `clustering-service.xml`
14. To add more nodes in the cluster, for each node, add the following lines in the `clustering-service.xml` file and replace the *node1* with the IP address of the server.

```
<mbean
descriptor="com.adeptia.indigo.cluster.ClusterMember"
name="bpm.core.cluster:name=BPMCluster,node=node1" port="21000">
</mbean>
```

15. For example, if there are three Servers (192.168.1.1, 192.168.1.2 and 192.168.1.3) in the cluster, the clustering-service.xml file will be as displayed below (see Figure 9)

```
<?xml version="1.0" encoding="UTF-8"?>
<mbeans-descriptors>
  <mbean
    descriptor="com.adeptia.indigo.cluster.ClusterMember"
    name="bpm.core.cluster:name=BPMCluster,node=192.168.1.1" port="21000">
  </mbean>
  <mbean
    descriptor="com.adeptia.indigo.cluster.ClusterMember"
    name="bpm.core.cluster:name=BPMCluster,node=192.168.1.2" port="21000">
  </mbean>
  <mbean
    descriptor="com.adeptia.indigo.cluster.ClusterMember"
    name="bpm.core.cluster:name=BPMCluster,node=192.168.1.3" port="21000">
  </mbean>
</mbeans-descriptors>
```

Figure 9: Edited XML File

16. Save the file and close it.



Step 1 to 16 must be performed on all the servers that will be part of Cluster. Instead of making same changes in clustering-service.xml file of all servers, you can make changes in only one server and copy the file on other servers

STARTING ADEPTIA SUITE IN CLUSTERING MODE

Adeptia Suite version 5.3 onwards no additional steps are needed to start the kernel and WebRunner in clustering mode. Only you need to make sure that Kernel and Webrunner on one node must be completely started before you start them on another node.

This section explains:

- [Starting Adeptia suite in Clustering Mode on Windows](#)
- [Starting Adeptia Suite in Clustering Mode on Linux](#)

Starting Clustering on Windows

Steps to start Adeptia Suite in Clustering Mode on Windows

1. Go to `../AdeptiaSuite/bin` folder.
2. To start the Kernel and WebRunner, double click the **Kernel.exe** and **WebRunner.exe** respectively.
3. Wait until the Kernel and WebRunner on this node is completely started.
4. Now repeat above steps to start the Kernel and WebRunner on each node of the cluster.



To learn how to login into the Adeptia Suite, refer to section *Login into Adeptia Suite* in the *Getting Started* guide.

Starting Clustering on Linux

Steps to start Adeptia Suite in Clustering Mode on Linux

1. Change directory where Adeptia Suite is installed using following command:

```
cd /usr/local/bin/AdeptiaSuite/AdeptiaServer-6.0/ServerKernel/
```

2. Ensure the **startup.sh** file has **Execute** permission using following command:

```
ls -l startup.sh
```

Example:

```
[root@domU-12-31-38-01-B9-68 ServerKernel]# ls -l startup.sh
-rwxrwxr-x 1 root root 2931 Nov 17 23:28 startup.sh
[root@domU-12-31-38-01-B9-68 ServerKernel]# █
```

3. Execute **startup.sh** using following command:

```
./startup.sh
```



This command starts both Kernel and Webrunner.

4. Wait until the Kernel and WebRunner on this node is completely started.
5. Now repeat above steps to start the Kernel and WebRunner on each node of the cluster.

VIEWING CLUSTERING STATUS

The Clustering status shows a list of the member servers and their status whether available or not.

Steps to view clustering status

1. Click **Administer** tab and then click **System Dashboard** menu. The system dashboard is displayed (see Figure 10).

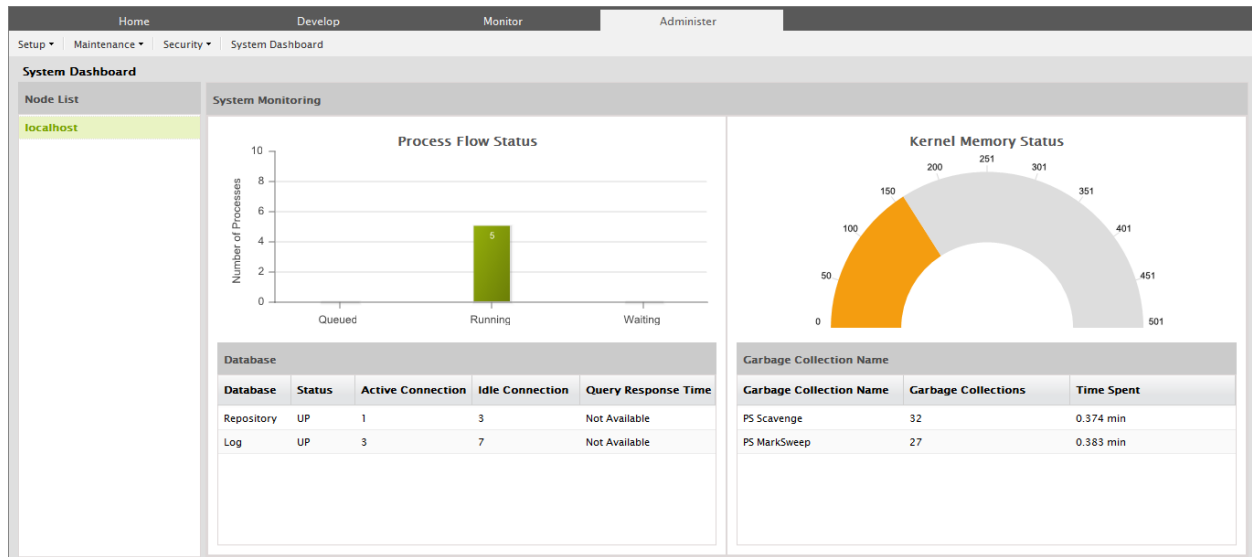


Figure 10: Node(s) Statistics

The green color in the State column denotes that the node is in active state and the part of the cluster.

The red color in the State column denotes that the node is not available.

The yellow color in the state column denotes that the node is active but not the part of cluster.



To know, how to view the details of each node of a cluster, refer to the section Monitoring System Status of Node

MONITORING ADEPTIA SUITE PERFORMANCE

To ensure efficient management and high availability of the Adeptia Suite for various business requirements, you may need to monitor the status and performance of Adeptia Suite. For this, you need to understand the usage of various resources such as memory, log database and repository database etc.

Adeptia Suite enables you to monitor the performance of the Adeptia server with the help of various parameters. To monitor various parameters of Adeptia Suite, you need to give your request in the form of a HTTP request. The current values of these parameters are returned in the XML data.

This chapter enables you to understand that how can you monitor the performance of the Adeptia server and which parameters are displayed. In addition, it also explains how this information is presented to the user.

In the Adeptia Suite this feature is available in:

EBIM Suite	BPM Suite	ESB Suite	ETL Suite
√	√	√	√

Prerequisites

- You must start the Kernel and the WebRunner before monitoring the Adeptia server.



Adeptia Suite enables you to monitor the performance of the Kernel and WebRunner separately. In addition, you can also monitor the performance of the complete cluster as well.

To monitor the Adeptia Suite, you need to send a request as a HTTP URL. The format for the HTTP URL is:

<http://<hostname>:<port>/adeptia/control/monitorMatrix?monitorFlag=<monitorflag>&matrixFlag=<matrixflag>>

Here,

<hostname> in the address is the name of the Server on which Adeptia Suite is running.

<port> is the Web server HTTP port number i.e. on which HTTP Adeptia Suite WebRunner is running. By default, Adeptia Suite WebRunner runs at 8080 port.

<monitorflag> is used to define the JVM for which you want to monitor the performance. **<monitorflag>** can have any of the following three values:

- kernel
- webrunner
- cluster



- When you set *kernel* as the monitorflag, then parameters of kernel JVM are displayed.
- When you set *webrunner* as the monitorflag, the parameters of webrunner JVM are displayed.
- When you set *cluster* as the monitorflag, status of all nodes of the cluster are displayed.
- When you set <monitorflag> to cluster then you need not provide any value for the <matrixflag>. Then the format for the HTTP URL is:

<http://<hostname>:<port>/adeptia/control/monitorMatrix?monitorFlag=<cluster>>

<matrixflag> is used to define the category of parameters for which you want to monitor. Each category of parameters has a set of properties. The <matrixflag> can have any of the following values:

- memory
- gc
- thread
- repositoryDB
- logDB
- all
- default

Error! Reference source not found. lists these categories and the parameters displayed in each category.

Table 5

Category	Parameter	Description
memory	UP-TIME OF JVM	Up-time of the JVM shows how long the JVM has been running.
	HEAP MEMORY	Heap Memory is the storage for Java objects. Heap memory is the run-time data area from which the JVM allocates memory for all class instances and arrays.
	MAX MEMORY	MAX Memory is the maximum amount of memory to which heap can grow.
	USED MEMORY	USED Memory is the amount of heap memory in use.
	COMMITTED MEMORY	Committed Memory is the amount of memory allocated to heap.
	INIT MEMORY	Init Memory is the amount of memory, which JVM initially requests from Operating System for memory management.
	NON-HEAP MEMORY	Non-heap memory includes a method area shared among all threads and memory required for the internal processing or optimization for the JVM. Non-heap Memory is used by Java to store loaded classes and other meta-data.

	MAX MEMORY	MAX Memory is the maximum amount of memory that can be used for memory management.
	USED MEMORY	USED Memory is the amount of memory currently used. Memory used includes the memory occupied by all objects.
	COMMITTED MEMORY	Committed Memory is the amount of memory guaranteed to be available for use by the JVM.
	INIT MEMORY	Init Memory is the amount of memory, which JVM initially requests from Operating System for memory management.
gc	GARBAGE COLLECTION	Garbage Collection (GC) is how the JVM frees memory occupied by objects that are no longer referenced. It is the process of releasing memory used by the dead objects.
	GARBAGE COLLECTOR NAME	Garbage Collector Name is the name of the memory manager.
	GARBAGE COLLECTIONS	Garbage Collections are the total number of collections that have occurred.
	TOTAL TIME SPENT	Total Time Spent is the approximate accumulated collection elapsed time.
thread	PEAK THREAD	Highest number of live threads since JVM started.
	PEAK THREAD COUNT	Counts the peak live thread since the JVM started or peak was reset.
	LIVE THREAD	Current number of live daemon threads plus non-daemon threads
	LIVE THREAD COUNT	Counts the current number of live threads including both daemon and non-daemon threads.
	DAEMON THREAD	Threads that work in the background to support the runtime environment are called daemon threads.
	THREAD DEADLOCK COUNT	Counts the number of threads that are in deadlock waiting to acquire object monitors or synchronizers that can be owned.
logDB/ repositoryDB	DATABASE MATRIX TYPE	It shows the type of database. The database can be log database and repository database.
	STATUS	It shows whether the connection to database is active or not. Its values are UP/DOWN.
	ACTIVE CONNECTION COUNT	Counts the current number of active connections that have been allocated from the data source.
	IDLE CONNECTION	Counts the current number of idle connections that are waiting to be allocated from the data

	COUNT	source.
	QUERY RESPONSE TIME	It describes the response time of SQL statement issued to database. By default Query Response Time is not displayed. To know how to view Query Response Time, refer to section Monitoring Query Response Time .
cluster	CLUSTER NODE MATRIX	A cluster is a group of independent Adeptia Suites working collectively as a single system.
	NODE NAME	It shows the IP address of the nodes that are a part of cluster.
	TYPE	It specifies the type of node that is PRIMARY (SERVER) or SECONDARY (MEMBER).
	STATUS	It specifies if a node is up (running) or not. Its values can be UP/DOWN.
	NETWORK LINK	It specifies if network link to this node is UP/DOWN.
all	It displays every parameter of all categories.	
default	It displays set of default parameter. To know how to define default parameters, refer to Configuring Default Monitoring Parameters .	

The performance of Adeptia Server is presented in the XML format. In response to the request sent to Adeptia Suite in the form of URL, an XML page is displayed. This XML page displays the information with respect to the flags passed in the URL.

For example, if Adeptia Suite is running on your local machine and if you hit the following URL:
<http://localhost:8080/adeptia/monitorMatrix?monitorFlag=kernel&matrixFlag=memory>

The following XML response is returned. This page displays values of different *memory* parameters of *kernel* (see Figure 1)).

```
<?xml version="1.0" ?>
- <monitor>
- <node name="192.168.1.219">
  <up-time description="up-time of the JVM">0 hour(s) 17 min(s) 38 sec(s)</up-time>
  - <jvm-memory-matrix>
    - <heap-memory>
      <max-memory description="amount of maximum memory (in MB) to which heap can grow">865.812</max-memory>
      <used-memory description="amount of heap memory (in MB) in use">127.36</used-memory>
      <committed-memory description="amount of memory (in MB) allocated to heap">240.812</committed-memory>
      <init-memory description="amount of memory (in MB) that JVM initially requests from OS for memory management">60.854</init-memory>
    </heap-memory>
    - <non-heap-memory>
      <max-memory description="maximum amount of memory (in MB) that can be used for memory management">132.0</max-memory>
      <used-memory description="amount of used memory (in MB)">28.747</used-memory>
      <committed-memory description="amount of memory (in MB) that is committed for JVM to use">40.25</committed-memory>
      <init-memory description="amount of memory (in MB) that JVM initially requests from OS for memory management">23.188</init-memory>
    </non-heap-memory>
  </jvm-memory-matrix>
</node>
</monitor>
```

Figure 1: The Performance Matrix XML page



Values for parameters are displayed in the default units. For example value of memory is displayed in MB. To change this unit, open the `monitoring-matrix.properties` file and change the required properties.

CONFIGURING DEFAULT MONITORING PARAMETERS

This section describes how you can configure the parameters, which shall be displayed when you use *default* as matrix flag.

Steps to configure default monitoring parameters

1. Go to `../Serverkernel/etc` folder.
2. Open the `monitoring-matrix.properties` file (see Figure 2).

```
# ms for milli-seconds, sec for seconds, min for minutes, hr for hours
abpm.monitoring.time.unit = min
# Bytes for bytes, KB for kilobytes, MB for megabytes, GB for gigabytes
abpm.monitoring.memory.unit = MB
# Comma separated values for default monitoring matrix, options are as follows:
# memory for JVM Memory Matrix, gc for JVM garbage collection matrix, thread for JVM
Thread information, repositoryDB for repository database information, logDB for log
database information
abpm.monitoring.matrix.default = memory,repositoryDB,logDB
# SQL Query for repository database
abpm.monitoring.repository.sql =
# SQL Query for log database
abpm.monitoring.log.sql =
# time unit for SQL statement response time (nano-sec for nano-seconds, micro-sec for
micro-seconds, ms for milli-seconds, sec for seconds, min for minutes)
abpm.monitoring.sql.response.time.unit = micro-sec
# enable basic authentication
abpm.monitoring.authentication.enable = yes
# user credential required for basic authentication
abpm.monitoring.authentication.user = admin
```

Figure 2: Default Monitoring Parameters XML page

3. Change the value if `abpm.monitoring.matrix.default`.



By default, parameters of memory, repositoryDb and logDb categories are displayed. To add another category, add the name of category. Names of categories must be separated by comma.

4. Save the file and restart the Kernel and WebRunner.

MONITORING QUERY RESPONSE TIME

This section describes how you check the query response time. Query response time is total time which is taken when you run any select query on Adeptia Suite repository or log database.

By default, query response time is not displayed. To view the query response time first of all you need to define the query through which you want to measure the query response time. You can define the query to run on repository database as well as on log database.

Steps to configure SQL Query

1. Go to ../Serverkernel/etc folder.
2. Open monitoring-matrix.properties file (see Figure 3).

```
# ms for milli-seconds, sec for seconds, min for minutes, hr for hours
abpm.monitoring.time.unit = min
# Bytes for bytes, KB for kilobytes, MB for megabytes, GB for gigabytes
abpm.monitoring.memory.unit = MB
# Comma separated values for default monitoring matrix, options are as follows:
# memory for JVM Memory Matrix, gc for JVM garbage collection matrix, thread for JVM
# Thread information, repositoryDB for repository database information, logDB for log
# database information
abpm.monitoring.matrix.default = memory,repositoryDB,logDB
# SQL Query for repository database
abpm.monitoring.repository.sql =
# SQL Query for log database
abpm.monitoring.log.sql =
# time unit for SQL statement response time (nano-sec for nano-seconds, micro-sec for
# micro-seconds, ms for milli-seconds, sec for seconds, min for minutes)
abpm.monitoring.sql.response.time.unit = micro-sec
# enable basic authentication
abpm.monitoring.authentication.enable = yes
# user credential required for basic authentication
abpm.monitoring.authentication.user = admin
```

Figure 3: Default Monitoring Parameters XML page

3. To define the query to run on Adeptia Suite's repository database, change the value of *abpm.monitoring.repository.sql* property

For example: `select * from AU_FileSource`

Whenever you use *repositoryDB* as matrix flag in request URL, this query will run on the repository database and the response time will be displayed in the result.

In SQL query you can use any table name of the backend database

4. To define the query to run on Adeptia Suite's log database, change the value of *abpm.monitoring.log.sql* property.

For example: `select * from AU_TransactionData`

Whenever you give *logDB* as matrix flag in request URL, this query will run on the log database.

In this SQL query you can use any table of backend database.

5. Save the file and restart the Kernel and WebRunner.

ENABLING AUTHENTICATION

This section describes how to enable authentication. If you want that only the authorized users or the administrators are able to check the monitoring performance parameters and their values, you need to enable authentication. For this, you need to authorize users by setting credentials.

To enable authentication, you will be required to use a HTTP tool that can parse the values passed as the user ID and password to the server.

By default, authentication is disabled. You need to manually enable the basic authentication by setting the property *abpm.monitoring.authentication.enable* to *yes*. To enable the credentials, you need set the property *abpm.monitoring.authentication.user* to *admin*.

Steps to enable authentication

1. Go to ../Serverkernel/etc folder.
2. Open monitoring-matrix.properties file (see Figure 4).

```
# ms for milli-seconds, sec for seconds, min for minutes, hr for hours
abpm.monitoring.time.unit = min
# Bytes for bytes, KB for kilobytes, MB for megabytes, GB for gigabytes
abpm.monitoring.memory.unit = MB
# Comma separated values for default monitoring matrix, options are as follows:
# memory for JVM Memory Matrix, gc for JVM garbage collection matrix, thread for JVM
Thread information, repositoryDB for repository database information, logDB for log
database information
abpm.monitoring.matrix.default = memory,repositoryDB,logDB
# SQL Query for repository database
abpm.monitoring.repository.sql =
# SQL Query for log database
abpm.monitoring.log.sql =
# time unit for SQL statement response time (nano-sec for nano-seconds, micro-sec for
micro-seconds, ms for milli-seconds, sec for seconds, min for minutes)
abpm.monitoring.sql.response.time.unit = micro-sec
# enable basic authentication
abpm.monitoring.authentication.enable = yes
# user credential required for basic authentication
abpm.monitoring.authentication.user = admin
```

Figure 4: Default Monitoring Parameters XML page

3. To enable authentication, change the value of the property *abpm.monitoring.authentication.enable* to *yes*.
4. To enable the credentials, set the value of the property *abpm.monitoring.authentication.user* to *admin*.
5. Save the file and restart the Kernel and WebRunner.

Now, when you send the HTTP request to monitor the Adeptia server performance, the request header/ URL will also contain the authorization name and value for the password.

Where:

Name: Authorization

Value: Basic *username*, which is the password

Here, *username* is a valid user name that exists in the Adeptia Suite repository and *password* is above user's password (in plain text)

ACCESSING PID OF KERNEL AND WEBRUNNER

Whenever you start the Kernel and WebRunner on Linux OS, a Process ID (PID) is assigned to both the Kernel and WebRunner. These PIDs are stored in the separate PID files for Kernel and WebRunner. The PID file for Kernel is **kernel.pid** and the PID file for WebRunner is **webrunner.pid**.

These files can be accessed from the following location:

<AdeptiaSuiteInstalledFolder>/ServerKernel/

The Linux users can use these PID files to read the PID assigned to the Kernel or the WebRunner. These PIDs can be further used in the Adeptia Suite.

Whenever you stop the Kernel or the WebRunner, these PID files are automatically deleted by the OS. However, in case of unexpected system shutdown or in case the Kernel and WebRunner are stopped unexpectedly, you need to manually delete these PID files. In case, you do not delete these PID files, the following error message is displayed:

“PID file already exists.”

You then will be required to delete the PID files, restart the system or the Kernel and WebRunner and only then you can proceed further.

LOAD MANAGEMENT

Load Management is an advanced feature of Adeptia BPM Server. Adeptia BPM Server uses Queue Processor to manage the load. Queue Processor is used to limit the number of process flows executing simultaneously to improve the performance of the system. It also helps in minimizing process flow execution failures due to lack of system resources such as CPU and Memory. All the process flows, which are to be executed, are submitted to the Queue Processor. Queue Processor allows only specified number of process flows to be executed at a time. Rest of the process flows are queued with the Queue Processor and are stored in the database.

In clustering mode, only the Queue Processor of primary node is used to fire the jobs (request for execution of process flows). If primary node goes down, any other node from the clusters becomes the primary node. So it is recommended to enable the Queue Processor on all the nodes of the cluster. The queuing of jobs (request for execution of process flows) can be done by any node in cluster mode.

ENABLING QUEUE PROCESSOR

By default Queue Processor is disabled. To enable the Queue Processor, change the value of the property *abpm.queue.processor.enable* from no to yes. To know how to change the property, refer to the section [Updating Adeptia Suite Properties](#).

After Queue Processor is enabled, you need to specify the following properties:

[abpm.queue.processor.concurrent.processes](#)

Concurrent Process Size is the maximum number of process flows, queue processor allows to be executed simultaneously.

[abpm.queue.processor.reload.factor](#)

Reload Factor specifies the threshold of number of process flows, which can be queued into Queue Processor memory. Once the number of process flows queued in to Queue Processor memory becomes less than Reload Factor, the Queue Processor looks for other process flows from database.

By Default Concurrent Processes Size is set to 50 and Reload Factor is set to 100. To change the Concurrent Processes Size and Reload Factor, refer to the section [Updating Adeptia Suite Properties](#).

MAINTENANCE

This section describes:

- [Data Cleanup](#)
- [Log Cleanup](#)

DATA CLEANUP

When Adeptia Suite process flows are executed, process flow creates temporary files to store intermediate data called repository files. For each instance of the Process flow execution a unique repository folder is created that contains Source, intermediate XML data files and target formatted data. By default repository files are being stored in the `.././AdeptiaServer-6.0/ServerKernel/web/repository` folder.

These files can cause disk space problem if they are accumulated over a long period of time. To make sure Adeptia Suite runs without disk space issue Adeptia Suite has Data Cleanup task that is scheduled to run at a specified time to cleanup repository files older than specified number of days. This cleans unnecessary files from server's hard disk.

By default, Data Cleanup is *enabled* and runs implicitly along with log cleanup. By default the log cleanup is set to run automatically at 8:00 P.M daily. To run data cleanup explicitly (not along with the log cleanup), you need to set the value of [abpm.appmanagement.cleanupCronExpression](#) property. You need to define this value in form of cron expression.

Also, by default, Data Cleanup deletes repository files older than 5 days. Again, to change this time, you need to set the value of [abpm.appmanagement.retainTime](#) property.



- To know how to change the Adeptia Suite Properties, refer to section [Updating System Properties](#).
- Data Cleanup does not delete the repository of the process flows that are in running / waiting state. It means that if a process flow is in running / waiting state for more days than specified in [abpm.appmanagement.retainTime](#) property, then, the Data Cleanup does not deletes the repository files of this particular process flow.

LOG CLEANUP

Adeptia Suite keeps application logs/errors in log files and/or database based on the logging properties. These logs are used for viewing Process flow logs and for debugging and troubleshooting.

Adeptia Suite keeps Process flow reports in log database tables. These data is used by Monitoring GUI.

These logs can cause database issues if they accumulate over a long period of time. Adeptia Suite has Log Cleanup task that is scheduled to run at a specified time to cleanup repository logs older than specified number of days. This cleans unnecessary logs from server's hard disk.

By default, Log Cleanup is *enabled* and runs automatically at 8:00 P.M. daily. To change this time, you need to set the value of [abpm.appmanagement.logCleanupCronExpression](#) property. You need to define this value in form for cron expression.

By default, the logs older than 5 days are deleted during the Log Cleanup process. You can change the retain time for various logs such as Event Logs, Process Flow Logs etc. To change the retain time for various logs, open **.././AdeptiaServer-6.0/ServerKernel/etc/log-cleanup.properties** file and change the retain time of the property associated to that particular log. The properties associated to various logs are as follows:

Property Name	Logs
abpm.AU_LOG.logRetainTime	System Logs, Audit Trail Logs and Process Flow Logs
abpm.AU_TRANSACTIONDATA.logRetainTime	Process Flow Logs
abpm.AU_EVENTLOG.logRetainTime	Event Logs
abpm.AU_TASKLOGS.logRetainTime	Task History
abpm.AU_PROCESSVARIABLETRACKER.logRetainTime	Solution Dashboard



- To know how to change the Adeptia Suite Properties, refer to section [Updating System Properties](#).
- Log Cleanup does not delete logs of those process flows that are in running / waiting state. It means that if a process flow is in running / waiting state for more days than specified in retain time properties of logs, then, the Log Cleanup does not delete the logs of this particular process flow.

BACKUP AND RESTORE

It is always recommended to take the backup of Adeptia Suite on a certain interval so that you can restore the objects incase drive on which Adeptia Suite is running gets damaged.

This section explains the steps to take the backup of objects. (activities, process flows, User, Groups and configuration file etc.).

BACKUP

Using Migration Utility can be used to take the backup of all objects of Adeptia Server.

createbackup.bat (for windows) and **createbackup.sh** (for linux and solaris) is provided in the **<InstallFolder>\ServerKernel** folder. When you execute this file, it creates a zip file, which contains the backup of objects. Name of the zip file will be **backup_<Date>_<Time>.zip**.

A file *backup.properties* is provided in **<InstallFolder>\ServerKernel\MigrationUtility**. This file is used to define following parameters:

- Folder where zip file is created
- Whether to back up the optional file or not

KernelApplication.log and WebrunnerApplication.log are the optional files. These file contains logs of Kernel and WebRunner.

Default backup.properties is given in Figure 1

```
#folder where backup zips will be stored
backup.folder = ../
optional.files = no
```

Figure 1: Sample backup.properties file

By default the zip file is created in the folder where Adeptia Suite is installed. For example if Adeptia Suite is installed in **C:\Program Files\AdeptiaSuite\AdeptiaServer-6.0** then the backup is created in **C:\Program Files\AdeptiaSuite\AdeptiaServer-6.0**.

If you want to create the backup file in any other folder, then edit the **<InstallFolder>\ServerKernel\MigrationUtility\backup.properties** file and specify the path where you want to create the backup zip. You can specify any absolute path.



Use only forward slash (/) in the path.

By default optional files are not included in the backup. If you want to include optional files in the backup then edit the **backup.properties** file and change the value of **optional.files** from no to yes.

Steps to backup the objects:

1. Make sure that the Kernel is running.
2. In case you want to create the backup in folder other than the default folder, edit the **backup.properties** file and specify the path where you want to create the backup zip.
3. Go to **<InstallFolder>\ServerKernel** folder in execute the createbackup.bat file.

On Linux or Solaris, execute **createbackup.sh** file using following command.

```
./createbackup.sh
```

RESTORE

To restore the backup you need to use Migration Utility's *Offline Migration* option. For detailed information, refer to *Import/Restore* section of this *Migration Utility* guide.

APPENDIX A: ADEPTIA SUITE PROPERTIES

This appendix describes Adeptia Suite Properties, their default values and other Possible Values. Adeptia Suite properties are grouped into following categories:

- [Load Management](#)
- [Kernel Settings](#)
- [Performance Optimization](#)
- [Process Flow](#)
- [Services](#)
- [Systems](#)
- [Maintenance](#)
- [Web Server](#)
- [Applet Configuration](#)
- [Solution Properties](#)



Possible Values of the properties are case sensitive. So use the exact case mentioned in the Possible Values of the properties.

LOAD MANAGEMENT

abpm.cluster.enable

Description	Enable Adeptia Suite Clustering
Default Value	no
Possible Values	yes/no
Selection Criteria	If you want to enable clustering, set the value as <i>Yes</i> . Otherwise, set the value as <i>no</i> . For detailed information about clustering, refer to Deploying Clustering section.

`abpm.queue.processor.enable`

Description	Enable Adeptia Suite's Queue Processor Server
Default Value	No
Possible Values	yes/no
Selection Criteria	If you want to enable the Queue Processor, then set the value as <i>yes</i> . Otherwise, set value as <i>no</i> . Queue Processor is used to limit the number of concurrent running flow. When this property is set as <i>no</i> , then any number of process flow can run concurrently. For detailed information about Queue Processor, refer to Load Management section.

`abpm.queue.processor.concurrent.processes`

Description	Maximum number of Process Flows, Queue Processor should allow to execute
Default Value	50
Possible Values	Any positive integer.
Selection Criteria	This property is used only when <i>abpm.queue.processor.enable</i> is set as <i>yes</i> . This property defines the maximum number of process flows that can run concurrently. You can define any positive integer, depending on the memory and processor available on server, where Adeptia Suite is running. For detailed information about Queue Processor, refer to Load Management section.

`abpm.queue.processor.reload.factor`

Description	Reload Factor specifies the threshold of number of process flows, which can be queued into Queue Processor memory. Once the number of process flows queued in to Queue Processor memory becomes less than Reload Factor, the Queue Processor loads more queued process flows from its database into queue processor memory to execute them.
Default Value	100
Possible Values	Any number between 1 to 1000

Description	Reload Factor specifies the threshold of number of process flows, which can be queued into Queue Processor memory. Once the number of process flows queued in to Queue Processor memory becomes less than Reload Factor, the Queue Processor loads more queued process flows from its database into queue processor memory to execute them.
Selection Criteria	This property is used only when <i>abpm.queue.processor.enable</i> is set as <i>yes</i> . Reload factor should be at least twice of the <i>abpm.queue.processor.concurrent.processes</i> . For detailed information about Queue Processor, refer to Load Management section.

abpm.queue.processor.job.restartwithoutRecoveryInfo

Description	Specifies whether to restart the execution of incomplete Process Flow, even if recovery information for that Process Flow is not available.
Default Value	No
Possible Values	Yes/no
Selection Criteria	If Yes, Queue Processor will recover and restart the execution of incomplete Process Flow right from the beginning, in case of unexpected shut down of the kernel. If no, Queue Processor will not restart the execution incomplete Process Flow. For detailed information about how recovery works, refer the <i>Recovery</i> section of <i>Adeptia Suite Developer Guide</i> .

KERNEL SETTINGS

abpm.node.name

Description	Name/IP address of host where Adeptia Suite Kernel is running
Default Value	localhost or IP Address
Possible Values	localhost/IP address/hostname
Selection Criteria	This property is populated based on the input given in <i>HostName</i> field, at the time of installation. It could be <i>localhost or IP address</i> of the host where Adeptia Suite is running. You can also manually enter the hostname of the machine where Adeptia Suite is running. It is recommended to use the IP

Description	Name/IP address of host where Adeptia Suite Kernel is running
	address here, because some of the functionality may not work properly.

abpm.node.port

Description	Port used by Adeptia Suite Kernel
Default Value	21000
Possible Values	Any port number which is free i.e. no other application is using that port
Selection Criteria	This property is populated based on the input given in <i>Kernel Configuration Port No.</i> field at the time of installation. You can define any port in this field, which is available.

abpm.repository.address

Description	Address of the repository used by Adeptia Suite
Default Value	localhost://indigo.core:service=repository
Possible Values	localhost/IP Address/ Host name
Selection Criteria	This property is populated based on the input given in <i>Kernel Configuration Port No.</i> field. You can also change it manually after the installation.

abpm.repository.root

Description	Directory path to store repository files, which are created during process flow execution.
Default Value	./web/repository
Possible Values	Any absolute path or Relative path where you want to store the Process flow repository files.
Selection Criteria	By default, Process flow repository files are stored in the /ServerKernel/web/repository folder. You can define any absolute path or

Description	Directory path to store repository files, which are created during process flow execution.
	<p>any relative path where you want to store the repository file.</p> <p>For Example:</p> <p><i>C:\AdeptiaRepository</i></p> <p>The relative path shall be relative to ServerKernel folder.</p> <p>For Example:</p> <p>To store the repository files within /ServerKernel/AdeptiaRepository, you can define the path as :</p> <p><i>./AdeptiaRepository</i></p>

abpm.kernelout.file.location

Description	Specifies the location, where the Kernel application log file is stored
Default Value	logs\applicationlogs
Possible Values	Any absolute path or Relative path where you want to store the Kernel application file.
Selection Criteria	<p>By default, the Kernel application log files are stored in the <i>/ServerKernel/logs/applicationlogs</i> folder. You can define any absolute path or any relative path where you want to store the application log files.</p> <p>For Example:</p> <p><i>C:\AdeptiaLogs</i></p> <p>The relative path shall be relative to ServerKernel folder.</p> <p>For Example:</p> <p>To store the log files within /ServerKernel/AdeptiaLogs folder, you can define the path as :</p> <p><i>./AdeptiaLogs</i></p> <p>Do not specify the file name in the value of this property. By default the file name is KernelApplication.log.</p>

abpm.kernelout.file.maxSize

Description	Specifies the maximum size of the Kernel Application log files.
-------------	---

Description	Specifies the maximum size of the Kernel Application log files.
Default Value	20
Possible Values	Any positive integer
Comments	This property specifies the maximum size of the Kernel Application log file in MBs. Once the log file reaches the specified maximum size, it is renamed to KernelApplication-[Date].log. Where Date specifies the current date in yyyy-MM-dd hh-mm-ss format.

EMBEDDED DATABASE

These properties are related to tuning backend and log databases.

`abpm.embedded.db.names`

Description	Name of the embedded backend and log databases.
Default Value	indigo,logs
Possible Values	Indigo/ indigo,logs
Selection Criteria	It is not recommended to change these values.
Comments	indigo is the name of the backend database and logs is the name of the log database. This property is used, when you install Adeptia Suite with embedded backend or log database.

`abpm.embedded.indigo.port`

Description	Port used by the embedded backend database
Default Value	2476
Possible Values	Any available port.
Selection Criteria	The port specified here should not be used by another application.

Description	Port used by the embedded backend database
Comments	NA

abpm.embedded.indigo.memory

Description	Minimum and Maximum JVM memory used by embedded backend database
Default Value	-Xms128M -Xmx256M -Xrs
Possible Values	
Selection Criteria	Minimum and maximum memory can be increased based on the objects stored in the backend database and the memory available in the system.
Comments	-Xms represents the minimum memory and -Xmx represents the maximum memory.

abpm.embedded.logs.port

Description	Port used by the embedded log database
Default Value	2477
Possible Values	Any available port.
Selection Criteria	Port specified here should not be used by another application.
Comments	NA

abpm.embedded.logs.memory

Description	Minimum and Maximum JVM memory used by embedded log database
Default Value	-Xms128M -Xmx256M -Xrs
Possible Values	

Description	Minimum and Maximum JVM memory used by embedded log database
Selection Criteria	Minimum and maximum memory can be increased based on the logs being stored in the logs database and the memory available in the system.
Comments	-Xms represents the minimum memory and -Xmx represents the maximum memory.

PERFORMANCE OPTIMIZATION

These properties are related to tuning of Adeptia Suite performance.

IO

`abpm.internals.tuning.io.buffer.size`

Description	Buffer size in bytes used by data stream in process flow
Default Value	16384
Possible Values	Any integer non zero, non negative integer value
Selection Criteria	It should be multiple of 1024.
Comments	Default value is 16*1024. It is tuning parameter data stream to copy from source to target.

`abpm.internals.tuning.io.pool.enabled`

Description	IO Pool Enable and Disable Option
Default Value	no
Possible Values	yes/no
Selection Criteria	If pooling is required to pass pooled objects from source to target, in case of transformer type services, in process flow, then this parameter is set to yes. This parameter is internal to process flow.

`abpm.internals.tuning.io.gc.limit`

Description	It defines the limit of garbage collection explicitly done by Adeptia Suite. After writing these many records into a pool Adeptia Suite call garbage collector to free all the records, which are already read. This property is applicable when IO Pool is enabled.
Default Value	75000
Possible Values	NA
Selection Criteria	There should be a positive integer value.
Comments	This limit is used internally by process flow when it has transformer type services.

CACHING

`abpm.dataMapper.dblookup.cache.limit`

Description	Number of Data Mapper Select Query and result string pair to be cached
Default Value	10000
Possible Values	Any integer
Selection Criteria	Number of Data Mapper Select Query and result string pair to be cached. This limit applies on whole Adeptia Suite not on individual Data Mapper applet.

JMX

`abpm.mbeanServer.connection.retry.count`

Description	Number of retries if mbean server connection is down
Default Value	3
Possible Values	Any integer

Description	Number of retries if mbean server connection is down
Selection Criteria	NA
Comments	Number of retries to connect to the mbean server, if it is down

abpm.mbeanServer.connection.lookup.time

Description	The lookup time between two retries of connecting to the mbean Server
Default Value	2000
Possible Values	Any integer
Selection Criteria	NA
Comments	

BACKEND DATABASE

Backend Connection Failure

abpm.jdo.connection.retryCount

Description	Number of retries to connect to the backend database if it is down
Default Value	-1
Possible Values	Any integer
Selection Criteria	NA
Comments	Number of retries to connect to the backend database, if it is down. By default, it the set to infinite retries, as if the backend database is down, then all GUI operations are at a standstill.

`abpm.jdo.connection.retryTimeInterval`

Description	The time interval (in seconds), between two retries of connecting to the backend server
Default Value	60
Possible Values	Any integer
Selection Criteria	NA
Comments	The time interval between two retries of connecting to the backend server.

LOG DATABASE

Log Connection Failure`abpm.log.connection.retryCount`

Description	Number of retries to connect to the log database server if it is down
Default Value	-1
Possible Values	Any integer
Selection Criteria	NA
Comments	Number of retries to connect to the log database, if it is down. By default, it the set to infinite retries, as if the log database is down, then logs are not entered into the database, but stored into a file.

`abpm.log.connection.retryTimeInterval`

Description	The time interval (in seconds), between two retries of connection to log database server is lost
Default Value	60
Possible Values	Any integer
Selection Criteria	NA

Description	The time interval (in seconds), between two retries of connection to log database server is lost
Comments	The time interval between two retries of connection to log database server is lost.

abpm.log.recovery.log4jfile

Description	The log file that contains data for table AU_LOG when connection to log database server is lost.
Default Value	KernelWebRunner.log
Possible Values	
Selection Criteria	NA
Comments	The log file that contains data for the table AU_LOG when connection to log database server is lost.

abpm.log.recovery.transactionDataFile

Description	The log file that contains data for table AU_TRANSACTIONDATA when connection to log database server is lost
Default Value	transaction.log
Possible Values	
Selection Criteria	NA
Comments	The log file that contains data for the table AU_TRANSACTIONDATA when connection to log database server is lost.

abpm.log.recovery.taskLogFile

Description	The log file that contains data for table AU_TASKLOGS when connection to log database server is lost
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Description	The log file that contains data for table AU_TASKLOGS when connection to log database server is lost
Default Value	Tasklog.log
Possible Values	
Selection Criteria	NA
Comments	The log file that contains data for the table AU_TASKLOGS when connection to log database server is lost.

abpm.log.recovery.processVariableTrackerFile

Description	The log file that contains data for table AU_PROCESSVARIABLETRACKER when connection to log database server is lost
Default Value	processVariableTracker.log
Possible Values	
Selection Criteria	NA
Comments	The log file that contains data for the table AU_PROCESSVARIABLETRACKER when connection to log database server is lost.

Log Connection Pooling

abpm.logdb.pool.enable

Description	Enable pooling for connection to log database
Default Value	yes
Possible Values	yes/no
Selection Criteria	NA
Comments	

abpm.logdb.pool.maxActive

Description	Maximum number of active connections that can be allocated from this pool at the same time.
Default Value	100
Possible Values	Any positive integer/ -1 for no limit
Selection Criteria	Depends on the maximum number of connection allowed by log database server.
Comments	

abpm.logdb.pool.maxIdle

Description	Maximum number of connections that can remain idle in the pool, without extra ones being released
Default Value	10
Possible Values	Any positive integer/ -1 for no limit
Selection Criteria	
Comments	

abpm.logdb.pool.minIdle

Description	Minimum number of connections that can remain idle in the pool, without extra ones being created
Default Value	10
Possible Values	Any positive integer/ 0 to create none
Selection Criteria	
Comments	

`abpm.logdb.pool.maxWait`

Description	Maximum number of milliseconds that the pool will wait (when there are no available connections) for a connection to be returned before throwing an exception
Default Value	10
Possible Values	Any positive integer/ -1 to wait indefinitely
Selection Criteria	
Comments	

PROCESS FLOW

RECOVERY

These properties are related to the recovery of the process flow, which are not completed due to unexpected shutdown of Kernel. When you create a process flow, by default the process flow is created as recoverable process flow. It means that implicit checkpoints are added before and after each activity of the process flow. On reaching each of the checkpoints, state (data, context variables) of process flow is written to a file in recovery directory. When system restarted after failure, it checks the recovery directory and find out the recoverable process flow and restart the process flow execution from the last successful checkpoint saved. The recovery information saved in the recovery folder remains there unless the process flow is recovered and completed. After the process flow is executed, this information is deleted. There is one file for each process flow. If the recovery option is set to NO the recovery information are saved but recovery is not done. If you enable the recovery property, the failed process flows are recovered.

`abpm.transaction.recovery.enable`

Description	This property is used to enable or disable recovery of process flow after system failure
Default Value	yes
Possible Values	yes/no
Selection Criteria	If you want to enable process flow recovery, set the value as <i>Yes</i> . Otherwise, set the value as <i>no</i> . For detailed information about process flow recovery, refer the <i>Recovery</i> section of <i>Adeptia Suite Developer Guide</i> .

abpm.recovery.repository.root

Description	Specify the folder, where recovery information of process flow is saved
Default Value	recovery
Possible Values	Any absolute path or Relative path where you want to store the recovery files of process flows
Selection Criteria	<p>By default, Process flow recovery files are stored in the /ServerKernel/recovery folder. You can define any absolute path or any relative path where you want to store the recovery file.</p> <p>For Example: <i>C:\AdeptiaPF_Recovery</i></p> <p>The relative path shall be relative to ServerKernel folder.</p> <p>For Example: To store the recovery files within /ServerKernel/AdeptiaPF_Recovery, you can define the path as : <i>./AdeptiaPF_Recovery</i></p>

ARCHIVAL

abpm.transaction.repository.archive.server

Description	Specifies where to archive the process flow repository files
Default Value	Default
Possible Values	Webdav/default
Selection Criteria	<p>Select webdav if you want to archive repository files in webdav repository. If webdav is selected, repository files are archived into the default folder of the group, executor of Process Flow belongs to. Select default if want to archive repository files into a folder specified in abpm.transaction.repository.archive.path property.</p>
Comments	NA

abpm.transaction.repository.archive.path

Description	Directory path to archive Process Flow repository files before they gets cleaned up.
Default Value	web/Archive/ProcessFlow
Possible Values	Any absolute path or relative path where you want to archive the Process flow repository files before they gets cleaned up.
Selection Criteria	<p>This property specifies the folder, where to you want to archive the process flow repository files if the archival of Process flow log and Data is enabled. You can enable the Archival using <i>abpm.data.archival.enable</i> property.</p> <p>By default, Process flow repository files are archived in the <i>Server/web/Archive/ProcessFlow</i> folder. You can define any absolute path or any relative path where you want to archive the repository files.</p> <p>For Example: <i>C:\Adeptia_ArchiveRepository</i> The relative path shall be relative to ServerKernel folder.</p> <p>For Example: To store the repository files within <i>/ServerKernel/Adeptia_ArchiveRepository</i>, you can define the path as : <i>./Adeptia_ArchiveRepository</i></p>

abpm.create.repository.archive.path

Description	Specifies whether to create the archive folder or not, if it doesn't exists.
Default Value	yes
Possible Values	yes/no
Selection Criteria	Using this property you can choose, whether to create the archive folder, which is specified in the <i>abpm.transaction.repository.archive.path</i> property, or not, if the folder already doesn't exists.

abpm.logs.archival.enable

Description	Option to enable or disable Archival of Process flow log
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Description	Option to enable or disable Archival of Process flow log
Default Value	No
Possible Values	yes/no
Selection Criteria	Set this property to <i>yes</i> , if you want to archive the process flow logs before they are cleaned up by cleanup process. If you set this property to <i>no</i> , then the logs are not archived before cleanup.

abpm.logs.archival.database

Description	Specifies whether to archive the logs on the same database, which is used to store the logs, or to use another database.
Default Value	1
Possible Values	1 / 2
Selection Criteria	Set this property to 1, if you want to archive the logs in the same database, where the logs are being stored. In this case, for every log table, an archive table is created in the log database and logs are archived in these tables. Set this property to 2, if you want to archive the logs in different database. It is recommended to use the different database to archive the logs because archive the logs on the same database may affect the performance.

abpm.logs.archival.batch.enable

Description	Specifies whether to archive the logs <i>record by record</i> or in <i>batch</i> .
Default Value	no
Possible Values	yes /no
Selection Criteria	If the values is no , records are archived one by one. If the value is yes , the records are archived in batches.

`abpm.logs.archival.batch.enable`

Description	Specifies whether to archive the logs <i>record by record</i> or in <i>batch</i> .
Default Value	no
Possible Values	yes /no
Selection Criteria	If the values is no , records are archived one by one. If the value is yes , the records are archived in batches.

`abpm.logs.archival.batch.size`

Description	Specifies the number of records to be archived in one batch.
Default Value	1000
Possible Values	Any positive integer, which can be easily supported by the archival database.
Selection Criteria	Its value specifies the number of records, which are archived in one batch, when <code>abpm.logs.archival.batch.enable</code> property is set to yes .

`abpm.logs.deleteData.onArchivalFailure`

Description	Specifies whether to delete the records from log table, in case any error occurred in archival, or not
Default Value	no
Possible Values	Yes /no
Selection Criteria	If the value is no , then records from main log tables are not deleted when there is any error during archival. If the value is yes , then records from main log tables are deleted, even if there is any error during archival. It is recommended to keep this property as no .

abpm.logs.sendNotification.onArchivalFailure

Description	Specifies whether to send the mail, in case of any error during log archival, or not
Default Value	Yes
Possible Values	Yes /no
Selection Criteria	<p>If the value is no, then no mail notification is sent in case of any error during log archival.</p> <p>If the value is yes, then mail notification is sent to email address configured in <i>admin</i> user, in case of any error during log archival. If this property is set to <i>yes</i>, then make sure that the Mail Server Parameter properties are configured properly.</p>

abpm.data.archival.enable

Description	Option to set process flow repository archival enable or disabled.
Default Value	No
Possible Values	Yes /no
Selection Criteria	Set this property is to <i>yes</i> , if you want to archive the process flow repositories before they are cleaned up by cleanup process. If you set this property to <i>no</i> , then the repositories are not archived before cleanup.

SERVICES

PROXY SETTINGS

abpm.transportProxy

Description	Option to enable the use of proxy server when Adeptia Suite needs to connect any source or target location such as HTTP Server or FTP Server etc.
Default Value	false
Possible Values	true/false

Description	Option to enable the use of proxy server when Adeptia Suite needs to connect any source or target location such as HTTP Server or FTP Server etc.
Selection Criteria	Set this property true, if Adeptia Suite need to use proxy server to connect to any source or target such as FTP Server or Mail Server etc.

abpm.transportProxyHost

Description	Specifies the IP address of the proxy server
Default Value	192.168.1.129
Possible Values	Specify the IP address of the proxy Server
Selection Criteria	This property is applicable only when <i>abpm.transportProxy</i> is set to <i>true</i> .

abpm.transportProxyHttpPort

Description	HTTP port used by proxy server
Default Value	8082
Possible Values	Depends on proxy server configuration.
Selection Criteria	Specify the HTTP port, which is used by proxy server.

abpm.transportProxyFtpPort

Description	FTP port used by proxy server
Default Value	21
Possible Values	Depends on proxy server configuration.
Selection Criteria	Specify the FTP port, which is used by proxy server.

abpm.transportProxyFtpPort

Description	FTP port used by proxy server
Default Value	21
Possible Values	Depends on proxy server configuration.
Selection Criteria	Specify the FTP port, which is used by proxy server.

abpm.transportHttpProxyFtpPort

Description	Address of the host for which you want to bypass the proxy
Default Value	192.168.1.99
Possible Values	IP address of the all the hosts separated by comma
Selection Criteria	Specify the IP addresses of the all host for which you want to bypass the proxy server.

WEB SERVICE CONFIGURATION**abpm.webservice.consumer.wsdlparser.iswsdl4j**

Description	Option to select the WSDL parser, either WSDL4j or EasyWSDL, used by Web Service consumer
Default Value	false
Possible Values	true/false
Selection Criteria	This property specifies the WSDL parser used by WS Consumer. If it is set as <i>false</i> , then <i>EasyWSDL</i> parser is used. If it is set as <i>true</i> then <i>WSDL4j</i> is used. EasyWSDL parser is upgraded parser and introduced in Adeptia Suite 6.0 version.

abpm.webservice.consumer.wseengine.isaxis

Description	Option to select the Web Service engine, either <i>Axis</i> or <i>Metro</i> , used by Web Service Consumer activities
Default Value	false
Possible Values	true/false
Selection Criteria	This property specifies the WSDL engine used by WS Consumer. If it is set as <i>false</i> , then <i>Metro</i> is used. If it is set as <i>true</i> then <i>Axis</i> is used. It is recommended to use <i>Metro</i> engine.

abpm.webservice.provider.wseengine.isaxis

Description	Option to select the Web Service engine, either <i>Axis</i> or <i>Metro</i> , used by Web Service Provider activities
Default Value	false
Possible Values	true/false
Selection Criteria	This property specifies the WSDL engine used by WS Provider. If it is set as <i>false</i> , then <i>Metro</i> is used. If it is set as <i>true</i> then <i>Axis</i> is used. It is recommended to use <i>Metro</i> engine.

abpm.webservice.uddisearch.maxrowsreturn

Description	This property defines Maximum Rows returned, when doing UDDI search
Default Value	50
Possible Values	Any positive integer (maximum value depends on browser used).
Selection Criteria	Maximum number of rows a browser can display easily.

abpm.webservice.host

Description	Name/IP address of host where Adeptia Suite is running
Default Value	localhost or IP Address
Possible Values	localhost/IP address/hostname
Selection Criteria	Address specified here is used in the URL of the Web Service, which is published in the Adeptia Suite. It is always recommended to use the IP address of the host.

abpm.webservice.port

Description	The default HTTP port, on which, any Web Service is published.
Default Value	8080
Possible Values	Any port, which is available.
Selection Criteria	This property specifies the default HTTP port, on which any Web Service is published. You can also choose the port, while creating the Web Service Provider activity.

abpm.webservice.sPort

Description	The default HTTPs port, on which, any Web Service is published.
Default Value	8443
Possible Values	Any port, which is available and can be used as secure port.
Selection Criteria	This property specifies the default HTTPs port, on which any Web Service is published. You can also choose the port, while creating the Web Service Provider activity.

abpm.webservice.wsdlDeployPath

Description	Web service wsdlDeployPath
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Description	Web service wsdlDeployPath
Default Value	wsdl
Possible Values	Any absolute path on the local system/ relative path from 'ServerKernel' directory location
Selection Criteria	Any directory where user want to save WSDL created for published process flow

abpm.webservice.serverKeyStorePath

Description	Key store path used by web server for web service SSL configuration
Default Value	../etc/truststore/cacerts
Possible Values	Any accessible location on local system
Selection Criteria	Depends which directory key store has been created into.
Comments	Use the default value. It has pre-created key store. In case you want to generate key store just copy that into default location. If you have pre created key store just use the absolute path of this key store as property value

com.sun.xml.ws.fault.SOAPFaultBuilder.disableCaptureStackTrace

Description	Option to enable web service stack trace logging in WS Fault
Default Value	false
Possible Values	true/false
Comments	This property is applicable only when <i>Metro</i> is used as Web Service engine.

abpm.webservice.metro.security.dumpmessages

Description	Option to web service security dumpMessages for web service request and response
Default Value	false
Possible Values	true/false
Comments	

BUSINESS CALENDAR

org.quartz.scheduler.bCalendar

Description	Specifies list of holidays of year
Default Value	NA
Possible Values	Any date in mm/dd/yyyy format
Comments	These days are assumed as holidays in Adeptia Suite calendar. If a Calendar Event is scheduled to be fired on Business Days, the process will not be fired on days specified in this property.

REPORTS LIBRARY

abpm.reporting.repository

Description	Folder where .jasper and .jrxml files, which are used by Custom reports, are stored
Default Value	/web/Jasper Report
Possible Values	Any absolute path or Relative path where you want to store the .jasper and .jrxml files.
Selection Criteria	.jasper and .jrxml files are used when you create Custom Report activities. To know more about custom report, refer the <i>Creating Custom Report</i> section of <i>Adeptia Suite Developer Guide</i> . By default, these files are stored in /ServerKernel/web/Jasper Report folder.

Description	Folder where .jasper and .jrxml files, which are used by Custom reports, are stored
	<p>You can define any absolute path or any relative path where you want to store these file.</p> <p>For Example: <i>C:\Adeptia_JasperReportFiles</i></p> <p>The relative path shall be relative to ServerKernel folder. For Example: To store the recovery files within <i>/ServerKernel/Adeptia_JasperReportFiles</i>, you can define the path as : <i>./Adeptia_JasperReportFiles</i></p>

DATABASE TARGET

abpm.database.errorcodes

Description	This property is used to configure error code returned by database server to abort the process flow.
Default Value	942,208
Possible Values	NA
Selection Criteria	NA
Comments	NA

DATABASE CONNECTION

abpm.database.connectionWaitTime

Description	This property is used to configure the time (in seconds) that the driver will wait to connect to the database.
Default Value	60
Possible Values	NA
Selection Criteria	NA

Description	This property is used to configure the time (in seconds) that the driver will wait to connect to the database.
Comments	NA

SCHEMA PROPERTY

abpm.schemashowfieldcount

Description	This property is used to configure the maximum number of fields to be displayed in Text, Advanced Text and Advanced Positional Schema
Default Value	200
Possible Values	Any Positive Integer
Selection Criteria	<p>This property specifies the maximum number of fields to be displayed, when any of the following schema is opened in edit mode:</p> <ul style="list-style-type: none"> ▪ Text Schema ▪ Advanced Text Schema ▪ Advanced Positional Schema <p>In case any of the above schema is opened in edit mode and it has more than the specified record, then a message is displayed.</p>

abpm.schemalignoreBlankLine

Description	This property is used to configure the maximum number of fields to be displayed in Text, Advanced Text and Advanced Positional Schema
Default Value	200
Possible Values	Any Positive Integer
Selection Criteria	<p>This property specifies the maximum number of fields to be displayed, when any of the following schema is opened in edit mode:</p> <ul style="list-style-type: none"> ▪ Text Schema ▪ Advanced Text Schema ▪ Advanced Positional Schema <p>In case any of the above schema is opened in edit mode and it has more</p>

Description	This property is used to configure the maximum number of fields to be displayed in Text, Advanced Text and Advanced Positional Schema
	than the specified record, then a message is displayed.

MAIL EVENT PROPERTY

abpm.mailEvent.mailProcessConcurrency

Description	This is used to set the maximum number of concurrent emails that can be processed by a mail event at a time
Default Value	0
Possible Values	Any positive integer. It should be based on number of concurrent connection the mail server that you are using.
Selection Criteria	Enter the maximum number of concurrent emails that can be processed at a time by mail event. By default, this value is 0 which means there is no limit to the number of mails that can be processed by a mail event. This property is applicable for all mail events that you have in your Adeptia Suite. If want to define this number specifically on one mail event, you can define it in Advanced properties of mail event.

abpm.mailEvent.retry

Description	This is used to set the number of retries when a 'MailBox in Use' error occurs
Default Value	0
Possible Values	Any positive integer. It should be based on the mail server that you are using.
Selection Criteria	This specifies the number of times a mail source, mail event and mail polling activity will retry on 'Mailbox in Use' error before it aborts. By default, this value is 0, which means there are no retries.

abpm.mailEvent.sleepTime

Description	This is used to set the sleep time (in milliseconds) before a retry takes place, when a 'Mailbox in Use' error occurs
Default Value	0
Possible Values	Any positive integer. It should be based on the mail server that you are using
Selection Criteria	This specifies the time interval (in milliseconds) between two retries for 'Mailbox in Use' error. By default, this value is 0, which implies that the time interval is 2 seconds. This property is applicable if the abpm.mailEvent.retry property is greater than 0.

abpm.target.createFolder

Description	Option to create any non-existing parent directory on target location (for Secured FTP Target and Lan File Target activity using VFS option)
Default Value	yes
Possible Values	yes/no
Selection Criteria	<p>This property specifies whether or not to create the target folder, specified in the Secured FTP target or LAN File Target activity (using VFS), if that folder doesn't exist.</p> <p>If it is set to <i>yes</i>, the folder will be created.</p> <p>If it is set to <i>no</i>, then folder will not be created and the target activity will be aborted.</p>

SYSTEMS

ENCODING

abpm.characterSetEncoding

Description	Option to specify the Character Set Encoding to be used by default, while parsing the data.
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Description	Option to specify the Character Set Encoding to be used by default, while parsing the data.
Default Value	ISO-8859-1
Possible Values	Any possible character set encoding such as UTF-8 etc.
Selection Criteria	This property specifies the default character set encoding to be used by all activities while parsing the data. However, you can also define the character set encoding at each activity level. Character set encoding defined at the activity level always takes precedence. To know more about character set encoding, refer the <i>Configuring Character Set Encoding</i> section of <i>Adeptia Suite Developer Guide</i> .

LOGGING

Adeptia Suite uses Log4J for logging. Log4j has three main components: loggers, appenders and layouts. These three types of components work together to log messages according to message type and level, and to control at runtime how these messages are formatted and where they are reported.

The logging level controls the type of messages that are logged. Adeptia Suite supports following logging levels:

- **DEBUG:** The DEBUG Level designates fine-grained informational events that are most useful to debug an application.
- **INFO:** The INFO level designates informational messages that highlight the progress of the application at coarse-grained level.
- **ERROR:** The ERROR level designates error events that might still allow the application to continue running.

The behavior of the logger is hierarchical. This is illustrated in the figure below.

		Will Output the message of level		
		DEBUG	INFO	ERROR
Logging Level	DEBUG			
	INFO			
	ERROR			

Figure 1: Logging Level Behavior

DEBUG is the highest logging level and it logs messages of DEBUG, INFO and ERROR level. ERROR is the lowest logging level and it only logs message of ERROR level.

Adeptia Suite supports following appenders:

- **jdbc:** It appends log to a database.

- **console**: It appends log events to system.out or system.err using layout specified by the user. The default target is system.out.
- **file** : It appends log to a file.

All the appenders are case-sensitive and must be defined in lower case.



For more details on log4j refer to <http://logging.apache.org/log4j>

log4j.rootLogger

Description	Option to define system and Process Flow Logging Level and appenders
Default Value	INFO,console,jdbc
Possible Values	A combination of valid log level along with the appenders
Selection Criteria	<p>This property specifies the default logging level of System and Process flow log.</p> <p>For example <i>INFO,console, jdbc</i>: <i>INFO</i> indicates the logging level and <i>console</i> and <i>jdbc</i> indicate appender. The data can go to console, jdbc or file.</p> <p>You can also define the logging level at each Process flow level. Logging level, defined at process flow level always takes the precedence.</p>

log4j.logger.Event

Description	Option to define logging level for Event logs
Default Value	INFO
Possible Values	ERROR/INFO/DEBUG
Selection Criteria	This property specifies the default logging level of Event log.

abpm.system.separateLogFile.enable

Description	Option to enable or disable separate log files for System and Application level
Default Value	false
Possible Values	true/false
Selection Criteria	By default all both system and application logs are written together in one file. All Kernel logs are written into <i>Kernelapplication.log</i> and all Webrunner logs are written into <i>WebRunnerapplication.log</i> file. If this property is set to <i>true</i> , then in these files only application logs (run time logs) are written in to these files. All System logs are written into <i>Kernelsystem.log</i> and <i>Webrunnersystem.log</i> files. When this property is enabled, the File Logging properties also come into effect.

abpm.system.separateLogFile.enable

Description	Path where system log file are stored.
Default Value	logs/systemlogs
Possible Values	Any absolute or relative path.
Selection Criteria	<p>This property specifies the path where system logs files are stored. This property is applicable only when <i>abpm.system.logFile.location</i> is set to <i>true</i>.</p> <p>You can define any absolute path or any relative path where you want to store these file.</p> <p>For Example: <i>C:\Adeptia_systemLogFiles</i></p> <p>The relative path shall be relative to ServerKernel/web folder.</p> <p>For Example: To store the recovery files within <i>/ServerKernel/web/logs/Adeptia_systemLogFiles</i>, you can define the path as : <i>./logs/ Adeptia_systemLogFiles</i> .</p>

Console appender

log4j.appender.console

Description	This is the Log4j console Appender class
Default Value	org.apache.log4j.consoleAppender
Possible Values	Any implementation of console Appender
Selection Criteria	ConsoleAppender appends log events to System.out or System.err using a layout specified by the user. The default target is System.out.

Database appender

log4j.appender.jdbc

Description	This is the Log4j jdbc Appender class.
Default Value	org.apache.log4j.jdbcplus.jdbcAppender
Possible Values	Any implementation of jdbc Appender
Selection Criteria	The JDBCAppender writes messages into a database via JDBC. Multiple configuration options and parameters are supported

log4j.appender.jdbc.url

Description	Option to define the JDBC URL of the log database
Default Value	As specified during installation
Possible Values	Any valid jdbc url
Selection Criteria	This property specifies the JDBC URL to connect to log database. This property is automatically populated as per the value given in the <i>Log Database Configuration</i> step during installation.

`log4j.appender.jdbc.dbclass`

Description	Database driver to connect to the log database.
Default Value	As per the log database selected during installation.
Possible Values	JDBC Driver of the log database, which is used to store the logs.
Selection Criteria	This value is provided by the JDBC driver used to connect to log database. This property is automatically populated as per the log database server type selected at the time of installation.

`log4j.appender.jdbc.username`

Description	Username to access the log database.
Default Value	As specified during installation
Possible Values	Any user name, which has permission to create tables, and insert records in the log database.
Comments	This property is automatically populated as per the user name specified in the Log Database Configuration step at the time of installation.

`log4j.appender.jdbc.password`

Description	Password of the username specified in <code>log4j.appender.jdbc.username</code> property
Default Value	As specified during installation
Possible Values	NA
Selection Criteria	This property is automatically populated as per the password specified in the Log Database Configuration step at the time of installation.

abpm.logs.dbType

Description	Password of the username specified in log4j.appender.jdbc.username property
Default Value	As specified during installation
Possible Values	NA
Selection Criteria	This property is automatically populated as per the password specified in the Log Database Configuration step at the time of installation.

log4j.appender.jdbc.connector

Description	Connector used for log4j JDBC Appender
Default Value	com.adeptia.indigo.logging.DbcpPoolConnectionHandler
Possible Values	NA
Selection Criteria	Connector used to establish connection with log4j JDBC Appender

File logging

log4j.appender.file

Description	This is the Log4j Rolling File Appender class
Default Value	org.apache.log4j.RollingFileAppender
Possible Values	Any implementation of FileAppender
Selection Criteria	RollingFileAppender is used to backup the log files when they reach a certain size

log4j.appender.file.Webrunner.file

Description	Name of the file in which WebRunner log are written.
Default Value	WebrunnerSystem.log
Possible Values	Any valid file name with .log extension.
Selection Criteria	Name of the file, in which webrunner logs are written.

log4j.appender.file.Kernel.file

Description	Name of the file in which Kernel logs are written
Default Value	KernelSystem.Log
Possible Values	Any valid file name with .log extension.
Selection Criteria	Name of the file, in which Kernel logs are written.

log4j.appender.file. MaxBackupIndex

Description	Option to define the number of backup log files
Default Value	10
Possible Values	Any positive integer and depends how many old logs you may want to keep
Selection Criteria	When the log file reaches up to a specified size, it is renamed for backup purpose and a new file is created to store the new logs. The property specifies how many backup files to keep, before they are deleted.

log4j.appender.file. MaxFileSize

Description	Maximum size of the log file
Default Value	1 MB

Description	Maximum size of the log file
Possible Values	Maximum size of the Kernel and WebRunner log files.
Selection Criteria	When the log file reaches this size, it is renamed for backup purpose and a new file is created to store the new logs.

LOG ARCHIVAL DATABASE CONFIGURATION

log4j.archival.jdbc.url

Description	Option to define the JDBC URL of the archival log database
Default Value	As specified during installation
Possible Values	Any valid jdbc url
Selection Criteria	This property specified the JDBC URL to connect to archival log database. This property is automatically populated as per the value given in the <i>Log Database Configuration</i> step during installation.

log4j.archival.jdbc.dbclass

Description	Database driver to connect to the archival log database.
Default Value	As per the log database selected during installation.
Possible Values	JDBC Driver of the log database, where the logs are archived.
Selection Criteria	This value is provided by the JDBC driver used to connect to log database. This property is automatically populated as per the log database server type selected at the time of installation.

log4j.archival.jdbc.username

Description	Username to access the archival log database.
Default Value	As specified during installation

Description	Username to access the archival log database.
Possible Values	Any user name, which has permission to create tables and insert records in the log database.
Comments	This property is automatically populated as per the user name specified in the Log Database Configuration step at the time of installation.

log4j.archival.jdbc.password

Description	Password of the username specified in log4j.archival.jdbc.username property
Default Value	As specified during installation
Possible Values	NA
Selection Criteria	This property is automatically populated as per the password specified in the Log Database Configuration step at the time of installation.

abpm.logs.archival.dbType

Description	Password of the username specified in log4j.appender.jdbc.username property
Default Value	As specified during installation
Possible Values	NA
Selection Criteria	This property is automatically populated as per the password specified in the Log Database Configuration step at the time of installation.

SECURITY

abpm.security.secretkeystoreName

Description	Adeptia Suite SecretkeystoreName
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Description	Adeptia Suite Secretkeystorename
Default Value	SecretKeys.Keystore
Possible Values	Any valid JCEKS Keystore
Selection Criteria	SecretKeys.Keystore is a protected database that holds keys which are generated when user creates Secret Key entity. These keys are used by Encryption, Decryption activity and Schema services. Access to a keystore is guarded by a password defined in the <code>abpm.security.secretkeypassword.encrypt</code> property. This password is not changeable. In addition, each private key in a keystore can be guarded by its own password.

abpm.security.repository

Description	Folder where secret keys and keystore are stored
Default Value	<code>etc/security</code>
Possible Values	Any absolute or relative path from <i>ServerKernel</i> folder.
Selection Criteria	This property represents the folder path where security related folders are stored viz. Keystore, secret keys etc.

abpm.security.passwordExpiryDays

Description	Number of days after which the password expires
Default Value	0
Possible Values	Any positive integer.
Selection Criteria	This property represents the number of days after which the password expires. If it has a value of 0, then the password does not expire.

`abpm.security.passwordExpiryMessageDisplayDays`

Description	Number of days before the password expiry for prompting expiry warning
Default Value	5
Possible Values	Any positive integer.
Selection Criteria	This property represents the number of days before the Adeptia User password expiry, the expiry warning is to be displayed. This warning is displayed at login.

`abpm.security.activitycomments.enable`

Description	Add comments before saving or editing an activity.
Default Value	no
Possible Values	Yes/no
Selection Criteria	This property represents the comment that is added after an activity is saved or edited. You can enter the reason for the add or edit action.



If you enable/disable comments property when you are already working in Process Designer or Data Mapper applet, you need to restart the respective applet.

AUTHENTICATION AND AUTHORIZATION

`java.security.auth.login.config`

Description	This is a file where the JVM looks for security JAAS configuration
Default Value	etc/jaas.config
Possible Values	Any file containing the login module configurations
Selection Criteria	Valid login modules

Description	This is a file where the JVM looks for security JAAS configuration
Comments	This Configuration specifies which Login Modules should be used for Adeptia Suite application, and in what order the Login Modules should be invoked

SERVER MAIL SERVER PARAMETERS

These properties are used when any mail notification generated by Adeptia Suite is send. Adeptia Suite generates mail notifications when:

- You click on the Forgot Password link in the login page
- Any Mail Notification activity is executed

MailProtocol

Description	Specifies the protocol used by outgoing mail server
Default Value	smtp
Possible Values	smtp/mapi
Selection Criteria	Select smtp if the outgoing mail server is using SMTP protocol. Select mapi if outgoing mail is using MAPI protocol. For Example Exchange Server

mailServer

Description	IP address or host name of Outgoing (SMTP) mail server
Default Value	Depends on the value given in the Mail Server Configuration steps during installation
Possible Values	IP address or hostname of the SMTP Server
Selection Criteria	This property is applicable only when <i>smtp</i> is defined as mail protocol. This property is automatically populated as per the value given in the <i>Mail Server Configuration</i> step during installation. However you can also manually define it.

Domain

Description	Specifies the domain name
Default Value	Adeptia
Possible Values	Domain Name, in which exchange server is configured.
Selection Criteria	This property is applicable only when MAPI is defined as mail protocol. This property is automatically populated as per the value given in the <i>Mail Server Configuration</i> step during installation. However you can also manually define it.

CDOHostName

Description	Name of the CDOHost machine
Default Value	CDOHOSTMachine
Possible Values	IP Address or Host name of the machine, which is configured as CDOHOST to allow communication between Adeptia Suite and Exchange Server
Selection Criteria	This property is applicable only when MAPI is defined as mail protocol. CDOHOST allows Adeptia Suite to communicate with Exchange server.

systemAdminEmailId

Description	Email Address of the person who is responsible for the administration of the Adeptia Suite
Default Value	Depends on the value given in the Mail Server Configuration steps during installation.
Possible Values	Any email address, which can be used to send the mail notifications.
Selection Criteria	This property is automatically populated as per the value given in the <i>Mail Server Configuration</i> step during installation. However you can also manually define it.

mailServerUserId

Description	User ID used to access the mailbox of the Adeptia Suite administrator
Default Value	Depends on the value given in the Mail Server Configuration steps during installation.
Possible Values	User Id of the mail account, which is mentioned in <i>systemAdminEmailID</i> property.
Selection Criteria	This property is automatically populated as per the value given in the <i>Mail Server Configuration</i> step during installation. However you can also manually define it.

mailServerPassword

Description	Adeptia Suite administrator mail server password.
Default Value	Depends on the value given in the Mail Server Configuration steps during installation.
Possible Values	Password of the mail account, which is mentioned in <i>systemAdminEmailID</i> property.
Selection Criteria	This property is automatically populated as per the value given in the <i>Mail Server Configuration</i> step during installation. However you can also manually define it.

Mailsubject

Description	Subject of the mail to be sent.
Default Value	Password
Possible Values	Subject string with which mail notification will be send
Selection Criteria	This value is used as subject of mail notifications, which is sent by Adeptia Suite at when you change your user password.

abpm.notification.mailNotification.sslEnabled

Description	Specifies Whether mail server is ssl enabled or not
Default Value	Depends on the value given in the Mail Server Configuration steps during installation.
Possible Values	yes/no
Selection Criteria	Select yes if the specified mail server requires a secure connection. Select no if the specified mail server doesn't require a secure connection.

abpm.notification.mailNotification.port

Description	Port of the outgoing mail server
Default Value	Depends on the value given in the Mail Server Configuration steps during installation.
Possible Values	SMTP port used by Mail Server
Selection Criteria	This property is automatically populated as per the value given in the <i>Mail Server Configuration</i> step during installation. However you can also manually define it.

abpm.changePasswordNotification.sendNewPassword

Description	Specifies whether you want to send the new password, whenever user's password is changed
Default Value	yes
Possible Values	yes/no
Selection Criteria	Select yes if you want the new password to be sent in the notification mail, whenever a user password is changed. Select no if you want the notification mail to be sent without new password.

ACTIVITY NAMING CONVENTION

abpm.ActivityName.Prefix

Description	This is the prefix that is appended to an activity name
Default Value	
Possible Values	Any string as per the naming convention policy of your organization.
Selection Criteria	Prefix appended to an activity name

MULTITENANT ENVIRONMENT

abpm.multitentant.environment.enable

Description	This is an option to enable or disable a multitenant environment
Default Value	no
Possible Values	Yes/no
Selection Criteria	This option is used to enable or disable a multitenant environment.

PAGINATION

abpm.pagination.enable

Description	Option to enable or disable the pagination feature
Default Value	yes
Possible Values	Yes/no
Selection Criteria	NA
Comments	This option is used to enable or disable pagination feature Limitation: This feature does not work for SQL 2000 Server

`abpm.pagination.page.size`

Description	This is an option to set the maximum number of records to be displayed in one page
Default Value	10
Possible Values	Positive Integer
Selection Criteria	NA
Comments	This option is used to set the number of records to be displayed in one page

PERSONALIZATION

`Home.Environment.DisplayName`

Description	Option to specify the environment string.
Default Value	Development
Possible Values	Any string to identify the Adeptia Suite. For Example : Development, Production etc.
Selection Criteria	This property is used to identify the Adeptia Suite environment, when more than one Adeptia Suite environment is running in your organization. The value given here is displayed, when you click the about link.

VERSION CONTROL

`abpm.versionControl.enable`

Description	This enables versioning in Adeptia Suite
Default Value	false
Possible Values	true/false
Selection Criteria	In case you want to version control your Adeptia Suite objects, then set this property as true.

Description	This enables versioning in Adeptia Suite
Comments	Sets Version Control Option as enabled or disabled

abpm.versionControl.repository.url

Description	This is the IP address/Name of the host machine where SVN is installed
Default Value	blank
Possible Values	<p><i>svn://<hostname >:<SVN port></i></p> <p>or</p> <p><i>svn://<hostname >:<SVN port><Absolute Path of the Repository including the Repository Name></i></p>
Selection Criteria	<p>You need to define the hostname or IP address of SVN host according to the syntax given below:</p> <p><i>svn://<hostname >:<SVN port></i></p> <p>where</p> <p><hostname> is hostname of IP address of the host, where SVN is installed.</p> <p><port> is the port at which SVN is running. By default SVN uses 3690.</p> <p>For example if the SVN Server is installed on a host with IP address 192.168.1.1 and using port 3690 then the URL will be :</p> <p><i>svn://192.168.1.1:3690/</i></p> <p>In case SVN is installed on Linux OS then you need to provide the absolute path of the Version Control Repository according to syntax given below:</p> <p><i>svn://<hostname >:<SVN port><Absolute Path of the Repository including the Repository Name></i></p> <p>When you install SVN, you are asked to create a repository. In this property you need to provide the where you have created the repository.</p> <p>For example if the SVN Server is installed on a host with IP address 192.168.1.1 using the port 3690 and the path of the SVN Repository is /Adeptia/Version_Control_Repository, then you need to define then the URL will be:</p> <p><i>svn://192.168.1.1:3690/Adeptia/Version-Control_Repository</i></p>

`abpm.versionControl.username`

Description	This is the user name of the Version Control Repository
Default Value	blank
Possible Values	As per configuration of SVN Server
Selection Criteria	The username, which is used to access SVN repository
Comments	Version Control Repository User Name

`abpm.versionControl.password`

Description	This is the password of the Version Control Repository
Default Value	blank
Possible Values	As per configuration of SVN Server
Selection Criteria	Password of the user specified in the <code>abpm.versionControl.username</code>

`abpm.versionControl.projectPath`

Description	This is the password of the Version Control Repository
Default Value	blank
Possible Values	Any absolute path or relative path with respect to ServerKernel folder.
Selection Criteria	<p>When you Check-In the activity of Adeptia Suite for the first time, the local copy of SVN project is created in path, specified in the property <code>abpm.versionControl.projectPath</code>.</p> <p>At the same time a project with the name specified in the above property, also created in the SVN.</p> <p>If the Adeptia Suite is installed of Windows OS, then you can either define the absolute path or relative path with respect to ServerKernel folder. For example, you can define the absolute path as <code>c:/Adpetia/AdeptiaVersionControl</code>. It means that the local SVN project is</p>

Description	This is the password of the Version Control Repository
	<p>created within c:\Adeptia\AdeptiaVersionControl folder.</p> <p>You can also define the relative path like .\AdeptiaVersionControl. In this case the local SVN project is created within ServerKernel > AdeptiaVersionControl folder.</p> <p>The default value of the property abpm.versionControl.projectPath is .\AdeptiaVersionControl.</p> <p>You can provide the path other than the default path in the abpm.versionControl.projectPath property as per your requirement.</p> <p>If Adeptia Suite is installed on Linux OS then you must specify the absolute path for the Local Version Control Project .</p> <p>For example /root/home/ADEPTIA/AdeptiaVersionControl/</p>

MAINTENANCE

DATA CLEANUP PROPERTIES

abpm.appmanagement.cleanupCronExpression

Description	Cron Expression to schedule the cleanup of Kernel and WebRunner application log files.
Default Value	0 0 20 * * ?
Possible Values	Any valid Cron Expression
Selection Criteria	This property specifies, when and how often Kernel and WebRunner application log files should be deleted. By default, it is set to 8 P.M. daily.

abpm.appmanagement.retainTime

Description	Kernel and WebRunner application log files to be retained during cleanup .
Default Value	5
Possible Values	Any positive integer

Description	Kernel and WebRunner application log files to be retained during cleanup .
Selection Criteria	Based on how old (days) data, user wants to retain in case Clean up is called. By default 5 days old data is retained.

LOG CLEANUP PROPERTIES

abpm.appmanagement.logCleanupCronExpression

Description	Cron Expression to schedule log cleanup time
Default Value	0 0 20 * * ?
Possible Values	Any valid Cron Expression
Selection Criteria	When and how often user wants logs to be cleaned up
Comments	To know more about Cron expression, refer to http://www.opensymphony.com/quartz . Also look into quartz scheduler document

abpm.appmanagement.logCleanupPropertiesFile

Description	Name and Path of file which contains retain time for logs
Default Value	Log-cleanup.properties
Possible Values	Path of file, which contains logs retain time properties.
Selection Criteria	This file contains the retain time of all log tables.

WEB SERVER

abpm.webserver.address

Description	Name/IP address of host where Adeptia Suite Kernel is running
Default Value	localhost or IP Address
Possible Values	localhost/IP address/hostname
Selection Criteria	This property is populated based on the input given in <i>HostName</i> field, at the time of installation. It could be <i>localhost or IP address</i> of the host where Adeptia Suite is running. You can also manually enter the hostname of the machine where Adeptia Suite is running. It is recommended to use the IP address here, because some of the functionality may not work properly.

abpm.webserver.public.address

Description	The public IP address used to access the Adeptia Suite behind a firewall
Default Value	blank
Possible Values	Any IP address.
Selection Criteria	In case Adeptia Suite is running behind firewall/Gateway and the user need to hit the URL of the firewall/gateway to access the Adeptia Interface, then you need configure the public IP address firewall/gateway here.

abpm.webserver.http.port

Description	The Web server HTTP port number i.e. on which HTTP port Adeptia web server is running
Default Value	8080
Possible Values	Any port number which is free i.e. no other application is using that port
Selection Criteria	This property is populated based on the input given in <i>WebRunner Configuration Port No.</i> field at the time of installation. You can define any port in this field, which is available.

abpm.webserver.https.port

Description	The Web server secure port number i.e. on which Adeptia Suite port web server is running.
Default Value	8443
Possible Values	Any port number which is free i.e. no other application is using that port
Selection Criteria	This property is populated based on the input given in <i>Kernel Configuration Port No.</i> field at the time of installation. You can define any port in this field, which is available.

abpm.transactionmonitor.ActivityStatusRefreshTime

Description	Time interval (in seconds) at which status of activity in monitoring applet refreshes
Default Value	10
Possible Values	Time in seconds
Selection Criteria	This property specifies the time interval, at which the information displayed in Classical System Monitor, are displayed.

SessionTimeOut

Description	Maximum time (in minutes) for which user can remain logged in Adeptia Suite in idle state
Default Value	1440
Possible Values	Time in minute
Selection Criteria	This property specifies the time, for which login session of user can remain idle. For unlimited duration enter negative value.

abpm.webrunnerout.file.location

Description	Specifies the location, where the WebRunner application log file is stored
Default Value	logs\applicationlogs
Possible Values	Any absolute path or Relative path where you want to store the WebRunner application file.
Selection Criteria	<p>By default, the WebRunner application log files are stored in the <i>/ServerKernel/logs/applicationlogs</i> folder. You can define any absolute path or any relative path where you want to store the application log files.</p> <p>For Example: <i>C:\AdeptiaLogs</i></p> <p>The relative path shall be relative to ServerKernel folder.</p> <p>For Example: To store the log files within <i>/ServerKernel/AdeptiaLogs</i> folder, you can define the path as : <i>./AdeptiaLogs</i></p> <p>Do not specify the file name in the value of this property. By default the file name is <i>WebRunnerApplication.log</i>.</p>

abpm.webrunnerout.file.maxSize

Description	Specifies the maximum size of the WebRunner Application log files.
Default Value	20
Possible Values	Any positive integer
Selection Criteria	<p>This property specifies the maximum size of the log file. Once the log file reaches the specified maximum size, it is renamed to <i>WebrunnerApplication-[Date].log</i>. Where Date specifies the current date in <i>yyyy-MM-dd hh-mm-ss</i> format.</p>

APPLET CONFIGURATION

DATA MAPPER

abpm.dataMapper.minHeapsize

Description	The minimum memory required for the data Mapper applet
Default Value	256M
Possible Values	Memory in MBs
Selection Criteria	This indicates the minimum amount of Java memory reserved by Data Mapper applet. This memory is used on client machine where Data Mapper applet is loaded.

abpm.dataMapper.maxHeapsize

Description	The maximum memory assigned to Data Mapper applet
Default Value	1024M
Possible Values	Memory in MBs.
Selection Criteria	This indicates the maximum amount of java memory that can used by Data Mapper applet. This memory is used on client machine where Data Mapper applet is loaded. In case you load very large schema in data mapper, then you may increase this value as per the size of schema and memory available on the machine where data mapper is loaded.

abpm.dataMapper.readTimeOut

Description	The maximum time (in seconds) for which the data mapper applet waits, before throwing an error message, in case of a problem such as backend database server being down
Default Value	720
Possible Values	Any positive integer
Selection Criteria	The maximum time for which the data mapper applet waits, before throwing an error message in case of a problem such as backend database server

Description	The maximum time (in seconds) for which the data mapper applet waits, before throwing an error message, in case of a problem such as backend database server being down
	being down.

MONITORING

abpm.monitoring.minHeapsize

Description	The minimum memory required for the Monitoring applet
Default Value	256M
Possible Values	Memory in MBs
Selection Criteria	This indicates the minimum amount of Java memory reserved by Monitoring applet. This memory is used on client machine where Monitoring applet is loaded.

abpm.Monitoring.maxHeapsize

Description	The maximum memory that can be assigned to System Monitoring applet
Default Value	1024M
Possible Values	Memory in MBs.
Selection Criteria	This indicates the maximum amount of java memory that can used by System Monitoring applet. This memory is used on client machine where System Monitoring applet is loaded.

abpm.Monitoring.readTimeOut

Description	The maximum time (in seconds) for which the monitoring applet waits, before throwing an error message, in case of a problem such as backend database server being down
Default Value	720

Description	The maximum time (in seconds) for which the monitoring applet waits, before throwing an error message, in case of a problem such as backend database server being down
Possible Values	Any positive integer
Selection Criteria	The maximum time for which the monitoring applet waits, before throwing an error message in case of a problem such as backend database server being down

PROCESS DESIGNER

abpm.Process Designer.minHeapsize

Description	The minimum memory required for the Process Designer applet
Default Value	256M
Possible Values	Memory in MBs
Selection Criteria	This indicates the minimum amount of Java memory reserved by Process Designer applet. This memory is used on client machine where Process Designer applet is loaded.

abpm.Process Designer.maxHeapsize

Description	The maximum memory possible for the Process Designer applet
Default Value	512M
Possible Values	Memory in MBs
Selection Criteria	This indicates the maximum amount of java memory that can used by Process Designer applet. This memory is used on client machine where Process Designer applet is loaded. In case you load very large Process flow in Process Designer, then you may increase this value as per the size of Process flow and memory available on the machine where Process Designer is loaded.

`abpm.Process Designer.readTimeOut`

Description	The maximum time (in seconds) for which the Process Designer applet waits, before throwing an error message, in case of a problem such as backend database server being down
Default Value	720
Possible Values	Any positive integer
Selection Criteria	The maximum time for which the process designer applet waits, before throwing an error message in case of a problem such as backend database server being down.

SOLUTION PROPERTIES**SALESFORCE INTEGRATION ACCELERATOR PARAMETERS**`abpm.Salesforce.UserId`

Description	The LoginID used to login into Salesforce Account
Default Value	Depends on the value given in the Salesforce Accelerator configuration steps during installation
Possible Values	Login ID used to login into Salesforce account.
Selection Criteria	This property is used, only when you use Salesforce accelerator. For detailed information, refer the Adeptia Salesforce Accelerator Guide.

`abpm.Salesforce.Password`

Description	The password used to login into the Salesforce Account
Default Value	Depends on the value given in the Salesforce Accelerator configuration steps during installation
Possible Values	Password used to login into Salesforce account.
Selection Criteria	This property is used, only when you use Salesforce accelerator. For detailed information, refer the Salesforce Netsuite Accelerator Guide.

NETSUITE INTEGRATION ACCELERATOR PARAMETERS

abpm.solution.netsuite.emailID

Description	The LoginID used to login into the NetSuite Account
Default Value	Depends on the value given in the Netsuite Accelerator configuration steps during installation
Possible Values	Login ID used to login into Netsuite account.
Selection Criteria	This property is used, only when you use Netsuite accelerator. For detailed information, refer the Adeptia Netsuite Accelerator Guide.

abpm.solution.netsuite.accountID

Description	The Account ID used to login into the NetSuite Account
Default Value	Depends on the value given in the Netsuite Accelerator configuration steps during installation
Possible Values	Account ID used to login into Netsuite account.
Selection Criteria	This property is used, only when you use Netsuite accelerator. For detailed information, refer the Adeptia Netsuite Accelerator Guide.

abpm.solution.netsuite.password

Description	The password used to login into the NetSuite Account
Default Value	Depends on the value given in the Netsuite Accelerator configuration steps during installation
Possible Values	Password used to login into Netsuite account.
Selection Criteria	This property is used, only when you use Netsuite accelerator. For detailed information, refer the Adeptia Netsuite Accelerator Guide.

abpm.solution.netsuite.accountType

Description	The type of account of the NetSuite Accelerator solution
Default Value	Depends on the value given in the Netsuite Accelerator configuration steps during installation
Possible Values	Account type used to login into Netsuite account. For Example: <i>Developer</i>
Selection Criteria	This property is used, only when you use Netsuite accelerator. For detailed information, refer the Adeptia Netsuite Accelerator Guide.

ADEPTIA SUITE APPENDIX B: CRON EXPRESSION

A "Cron-Expression" is a string comprised of 6 or 7 fields separated by white space. The 6 mandatory and 1 optional fields are as follows:

Field Names	Values	Allowed Special Character
Seconds	0-59	, - * /
Minutes	0-59	, - * /
Hours	0-23	, - * /
Day-of-month	1-31	, - * ? / L W C
Month	1-12 or JAN-DEC	, - * /
Day-of-Week	1-7 or SUN-SAT	, - * ? / L C #
Year (Optional)	empty, 1970-2099	, - * /

- The '*' character is used to specify all values. For example, "*" in the minute field means "every minute".
- The '?' character is allowed for the day-of-month and day-of-week fields. It is used to specify 'no specific value'. This is useful when you need to specify something in one of the two fields, but not the other. See the examples below for clarification.
- The '-' character is used to specify ranges For example "10-12" in the hour field means "the hours 10, 11 and 12".
- The ',' character is used to specify additional values. For example "MON,WED,FRI" in the day-of-week field means "the days Monday, Wednesday, and Friday".
- The '/' character is used to specify increments. For example "0/15" in the seconds field means "the seconds 0, 15, 30, and 45". And "5/15" in the seconds field means "the seconds 5, 20, 35, and 50". You can also specify '/' after the '*' character - in this case '*' is equivalent to having '0' before the '/'.
- The 'L' character is allowed for the day-of-month and day-of-week fields. This character is shorthand for "last", but it has different meaning in each of the two fields. For example, the value "L" in the day-of-month field means "the last day of the month" - day 31 for January, day 28 for February on non-leap years. If used in the day-of-week field by itself, it simply means "7" or "SAT". But if used in the day-of-week field after another value, it means "the last xxx day of the month" - for example "6L" means "the last

Friday of the month". When using the 'L' option, it is important not to specify lists, or ranges of values, as you'll get confusing results.

- The 'W' character is allowed for the day-of-month field. This character is used to specify the weekday (Monday-Friday) nearest the given day. As an example, if you were to specify "15W" as the value for the day-of-month field, the meaning is: "the nearest weekday to the 15th of the month". So if the 15th is a Saturday, the trigger will fire on Friday the 14th. If the 15th is a Sunday, the trigger will fire on Monday the 16th. If the 15th is a Tuesday, then it will fire on Tuesday the 15th. However if you specify "1W" as the value for day-of-month, and the 1st is a Saturday, the trigger will fire on Monday the 3rd, as it will not 'jump' over the boundary of a month's days. The 'W' character can only be specified when the day-of-month is a single day, not a range or list of days.
- The 'L' and 'W' characters can also be combined for the day-of-month expression to yield 'LW', which translates to "last weekday of the month".
- The '#' character is allowed for the day-of-week field. This character is used to specify "the nth" XXX day of the month. For example, the value of "6#3" in the day-of-week field means the third Friday of the month (day 6 = Friday and "#3" = the 3rd one in the month). Other examples: "2#1" = the first Monday of the month and "4#5" = the fifth Wednesday of the month. Note that if you specify "#5" and there is not 5 of the given day-of-week in the month, then no firing will occur that month.
- The 'C' character is allowed for the day-of-month and day-of-week fields. This character is shorthand for "calendar". This means values are calculated against the associated calendar, if any. If no calendar is associated, then it is equivalent to having an all-inclusive calendar. A value of "5C" in the day-of-month field means "the first day included by the calendar on or after the 5th". A value of "1C" in the day-of-week field means "the first day included by the calendar on or after Sunday".
- The legal characters and the names of months and days of the week are not case sensitive.

Here are some full examples:

Expression	Meaning
0 0 12 * * ?	12pm (noon) every day
0 15 10 ? * *	10:15am every day
0 15 10 * * ?	10:15am every day
0 15 10 * * ? *	10:15am every day
0 15 10 * * ? 2005	10:15am every day during the year 2005
0 * 14 * * ?	Every minute starting at 2pm and ending at 2:59pm, every day
0 0/5 14 * * ?	Every 5 minutes starting at 2pm and ending at 2:55pm, every day
0 0/5 14,18 * * ?	Every 5 minutes starting at 2pm and ending at 2:55pm, AND fire every 5 minutes starting at 6pm and ending at 6:55pm, every day

Expression	Meaning
0 0-5 14 * * ?	Every minute starting at 2pm and ending at 2:05pm, every day
0 10,44 14 ? 3 WED	2:10pm and at 2:44pm every Wednesday in the month of March.
0 15 10 ? * MON-FRI	10:15am every Monday, Tuesday, Wednesday, Thursday and Friday
0 15 10 15 * ?	10:15am on the 15th day of every month
0 15 10 L * ?	10:15am on the last day of every month
0 15 10 ? * 6L	10:15am on the last Friday of every month
0 15 10 ? * 6L 2002-2005	10:15am on every last friday of every month during the years 2002, 2003, 2004 and 2005
0 15 10 ? * 6#3	10:15am on the third Friday of every month

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