



Adeptia Suite 6.2

Patch Deployment Guide

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Patch Details

Patch Name : **AdeptiaSuite_6_2_QuickUpgrade.zip**

Build Tag : **Release_6_2_09July2014**

Applies To

This patch is cumulative patch and can be applied on Adeptia Suite Ver. 6.1 GA release or Ver. 6.1 with any maintenance patch.

Licensing

In Adeptia Suite version 6.2 patch, new services have been added. To use those new services, you need to update the latest license. Otherwise you will not be able to view those new services. So it is recommended that you should get the latest license and update it after applying the patch.

To get the latest license contact support@adeptia.com .

To know how to apply the license, refer the [Appendix D: Updating Latest License](#) section.

Applying Patch

This section explains how to apply the patch.

Pre-Requisites:

1. Take the backup of the backend database.

Before applying the patch, it is recommended to take the backup of the database that is used as backend by Adeptia Suite.

In case the embedded database is used as backend, follow the steps below to take its backup:

- a. Stop Kernel and WebRunner.
- b. Go to `./AdeptiaServer/ServerKernel` folder.
- c. Copy the `embeddedDB` folder and keep it into a separate folder.

In case any other database is used as backend database, you need to follow the backup instruction given by that Database Server.

To know, which database is used as backend database, refer to [Appendix A : Identify Backend Database](#) .

2. Also make sure that you have *Read* and *Write* permission on all subfolder and files of `../AdeptiaSuite-<Version>`

3. All events must be de-activated before applying the patch.
4. Before applying the patch, make sure that any process flow should not be in *Running* or *Queued* state.
5. If you are already using Rich forms, then you need to first export the Rich Forms, and then apply the patch. After applying the patch, you need to import the Rich Forms again. To know how to export the Rich Forms, refer [Appendix C: Exporting and Deploying Rich Forms](#) section.
6. Kernel and WebRunner must be stopped before you start applying the patch.

Following are the high level steps to apply the patch.

1. Download the latest patch from the provided URL.
2. Extract the downloaded zip file in a new folder in the **same drive** where Adeptia Suite is installed.
3. Open the command prompt and change to the folder where you have extracted the patch zip.
4. Depending on the operating system you are using, run one of the following commands:

For Windows

Apply-RecoverPatch.bat <Path where Adeptia Suite is installed.>

Example:

Apply-RecoverPatch.bat "C:\Program Files\AdeptiaSuite\AdeptiaSuite-6.1\AdeptiaServer"

For Linux

./Apply-RecoverPatch.sh <Path where Adeptia Suite is installed.>

Note: In case the path contains spaces, enter the path within double quotes.

5. This will apply the patch.
6. This will also apply the B2Bi accelerator, in case you have applied the patch with updated B2Bi accelerator.

Notes:

- Patch application may take more time when there are large number of records in backend and log databases.
- Once the patch is applied, a recovery file *Recovery_<Date-Time Stamp>.zip* is created in the same folder from where you have applied the patch. This file is used in case you want to recover or rollback the patch.
- A *migration.log* file is also created, which contains the logs generated during patch application in the same folder from where you have applied the patch. This file can be used to troubleshoot any issue related to patch application.

7. Restart the Kernel and Web Runner.

Note:

- In case you are using B2Bi accelerator, you need to reconfigure some of the pre-bundled activities. Please refer [Activities to be Reconfigured](#) section for the list of activities, which need to be re-configured.

Applying Patch in Clustering Setup

In this latest patch, Cluster Fail Over feature is added. Due to this enhancement certain changes are done in the configuration properties of Adeptia Suite. If you are using Adeptia Suite in clustering environment then after applying this patch, you need to do following configurations on each node of the cluster.

Note: This section is only applicable if you are using Adeptia Suite in Clustering environment. Otherwise skip this section.

Pre-requisites: We recommend you to read the updated *Deploying Clustering* section of Adeptia Suite *Admin Guide* before you follow the below steps.

Steps to be followed after applying the patch

1. When you apply this patch, two new properties will be added to *Update System Properties* page. These properties are as below:
 - *abpm.node.alias* : This property defines the alias name of the node. In this property enter a unique name for this node. The name is used to create a subfolder for each node within the recovery folder, where recovery files are stored for running process flows.
 - *abpm.recovery.repository.root* : This property defines a location where recovery files are stored for each of the nodes. 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\recovery. Here 192.168.1.1 is the IP address and recovery is the shared folder. There should not be any username/password required to connect to this folder.
2. After configuring these property, click **Save** button to save the changes. A screen is displayed confirming that system properties have been saved.
3. Now go to the folder `../AdeptiaServer-<adeptia-version>/ServerKernel/etc/Cluster` on the server where Adeptia Suite is installed.
4. Take the backup of **clustering-service.xml** file.
5. Replace this file with the clustering-service.xml file provided within the patch.

Note: When you extract the patch, you can see the new clustering-service.xml file.
6. Reconfigure the new *clustering-service.xml* file according to the number of nodes you have in your clustering environment.
7. In *clustering-service.xml* file, two new attributes have been added for each node. These two attributes are as below:

alias: You can use any name here. This should be unique for each node in the cluster.

sequenceNumber: You can define any number here. This number should be unique for each node of the cluster. This number should be maximum of two digits starting from 1.

After configuration the clustering-service.xml file should look similar to the file as shown in Figure 1.

```
<?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,alias=alias1" port="21000" sequenceNumber="1">
  </mbean>
  <mbean
    descriptor="com.adeptia.indigo.cluster.ClusterMember"
    name="bpm.core.cluster:name=BPMCluster,node=192.168.1.2,alias=alias2" port="21000" sequenceNumber="2">
  </mbean>
  <mbean
    descriptor="com.adeptia.indigo.cluster.ClusterMember"
    name="bpm.core.cluster:name=BPMCluster,node=192.168.1.3,alias=alias3" port="21000" sequenceNumber="3">
  </mbean>
</mbeans-descriptors>
```

Figure 1: Clustering-service.xml File

8. After applying these changes, restart the Kernel and WebRunner.

Post Patch Application Steps

Since this is a major upgrade patch from 6.1 to 6.2, there are some configuration files, which have some modifications. Those configuration files are also bundled with the patch, but do not get deployed automatically. When you extract the patch, you can see these files in the root of extracted folder. You need to first configure those properties files as per the existing configuration, and then replace it in your Adeptia Suite environment.

This section describes how to configure those configuration files.

Following table lists the configuration files that you need to configure and the path where you need to replace them.

File Name with path	File Path	Description
export.xml	/ServerKernel/MigrationUtility/	<p>This file is used when you use Migration Utility to export objects using Silent Mode or Non Interactive mode. This file have been modified because new services have been added in Adeptia Suite.</p> <p>If you are using Migration Utility in Silent Mode or Non Interactive mode, then configure this file as per the existing files and replace it in the Adeptia Suite environment.</p> <p>By default this file is placed in /ServerKernel/MigrationUtility folder.</p> <p>In case you are using this file from any other location then replace this file in that location.</p>
log-cleanup.properties	/ServerKernel/etc	<p>This file is used to define the retain time for log cleanup.</p> <p>Configure the log retain time in this file as per the existing file and replace it in the Adeptia Suite environment.</p>
c3p0.properties	/Serverkernel/etc	<p>If you have done any modification in this file in your existing environment, then configure this file as per the existing configuration and replace it your environment.</p>
clustering-service.xml	/Serverkernel/etc/Cluster	<p>This file is used, when you configure multiple instances of Adeptia Suite in clustered environment.</p> <p>To know how to configure this file, refer the Applying Patch in Clustering Setup section of this document.</p>

Note:

- After modifying any configuration, it is important to restart the Kernel and WebRunner.
- After applying the patch, you need to clear the browser history before you login into the Adeptia Suite. To know how to clear the browser history, refer the documentation of the browser, which you are using.
- You have to also clear the Java cache and the previous certificate of Adeptia from Java Control Panel. To know how to clear Java cache and Adeptia certificates, refer to <http://support.adeptia.com/entries/72486986-Deleting-Java-Cache-and-Certificates>

Activities to be re-configured

This section contains the list of activities, which need to be reconfigured, after you apply the latest patch. This section is applicable only if you are using B2Bi Accelerator.

1. Mail Target Activities

- a. EDINACKNotification
- b. EDIInterchangeErrorNotification

2. Mail Notification

- a. SystemErrorNotification

In the activities, listed above, you need to re-configure the mail parameters. These parameters get overridden by the dummy values which are defined in the EDI zip.

In case you have enabled “Delete File on Success” for B2Bi processing, then you need to re-enable it in the Advanced Properties of following activities:

3. File Source Activities

- a. InboundFileSource
- b. OutboundFileSource
- c. RoutingSource

4. FTP Source Activities

- a. InboundFTPSource
- b. OutBoundFTPSource

In case you have enabled the log file generation in B2Bi accelerator, then you need to reconfigure the process flow variables as mentioned in the table below:

Process Flow > EDIInboundProcessor > Process Flow Variable:	
generateLogFile	This should be set to <i>true</i> if you want to generate the log file for inbound processing.
logFilePath	Path where you want to generate the log file.
Log_PathPrefix	Path prefix of the target file displayed in the log file.
Process Flow > EDIOutboundProcessor > Process Flow Variable:	
generateLogFile	This should be set to <i>true</i> if you want to generate the log file for outbound processing.
logFilePath	Path where you want to generate the log file.
Log_PathPrefix	Path prefix of the target file displayed in the log file.
Process Flow > EDISubBatchProcessor > Process Flow Variable:	
generateLogFile	This should be set to <i>true</i> if you want that the path of FA should be written in the inbound log file.
logFilePath	Path where you want to generate the log file. Note: This path should be same as the path defined for <i>logfilePath</i> variable in EDIInboundProcessor process flow.

Log_PathPrefix	Path prefix of the target file displayed in the log file.
----------------	---

To enable the reset transaction set control number for EDI outbound flow, you need to change following process variables as mentioned in the table below:

Process Flow > EDISubBatchProcessor> Process Flow Variable:	
resetTransactionControlNumber	This should be set to <i>true</i> if you want to reset the transaction set control number in outbound processing.
Process Flow > EDIBatchProcessor > Process Flow Variable:	
resetTransactionControlNumber	This should be set to <i>true</i> if you want to reset the transaction set control number in outbound processing while batch mode is selected as Yes.

Remove Patch

This section explains how to remove the patch. Depending on the scenario you can choose one of the following options:

- **Recover Patch**

Use this option, if any error comes while applying the patch. This will bring the Adeptia Suite environment to the previous state similar to before applying the patch.

- **Rollback Patch**

Use this option when you have applied the patch successfully and later on decided to remove the patch. This option will bring your Adeptia Suite environment to the previous state. All the objects that you have created or modified, after applying the patch, will persist in the Adeptia Suite environment.

Pre-requisite:

- **All events must be de-activated before removing the patch.**
- Before recovering the patch, Kernel and WebRunner must be stopped.

Following are the high level steps to recover the patch:

1. Go to folder, where you have extracted the Patch and open the *patch.xml* file (see Figure 2).

```
<Configuration>
  <!-- Select mode as "deployment" for patch deployment and "recovery" for patch recover
  <Patch mode="Deployment" >
    <InstallationDirectory comment="Location of Adeptia Suite installation direct
    <PatchFileLocation comment="Location of patch file to be deployed. It is not
    <IsDatabaseUpdateRequired comment="Specifies whether database shall be upda
    <RecoveryFileLocation comment="For patch deployment mode, it specifies the lo
    Recovery.zip
  </RecoveryFileLocation>
  <!-- Remove "Accelerators" tag in case you don't want to deploy any accelerat
  <Accelerators>
    <AcceleratorFileLocation name="EDI">EDI.zip</AcceleratorFileLocation>
    <AcceleratorFileLocation name="SampleObjects">SampleObjects.zip</Acce
  </Accelerators>

  </Patch>
</Configuration>
```

Figure 2: Patch.xml File

2. Replace *deployment* highlighted in the above figure with *recovery*.
3. Also replace *Recovery.zip* with the name of the recovery file which is created during patch application.
4. Save this file.
5. Go to the command prompt and change to the folder where you have extracted the patch.
6. Depending on the operating system you are using, run one of the following commands:

For Windows

Apply-RecoverPatch.bat <Path where Adeptia Suite is installed.>

Example:

Apply-RecoverPatch.bat "C:\Program Files\AdeptiaSuite\AdeptiaSuite-6.0\AdeptiaServer"

For Linux

./Apply-RecoverPatch.sh <Path where Adeptia Suite is installed.>

Note: In case the path contains spaces, enter the path within double quotes.

7. Once you run the above command, you will be asked to choose the mode of removing the patch (see Figure 3).

```

C:\Windows\system32\cmd.exe - Apply-RecoverPatch.bat "C:\Program Files\AdeptiaSuite\AdeptiaS...
[Server@6f9bb25a]: Initiating startup sequence...
[Server@6f9bb25a]: Server socket opened successfully in 33 ms.
[Server@6f9bb25a]: Database [index=0, id=0, db=file:C:\Program Files\AdeptiaSuite\AdeptiaSuite-5.3\AdeptiaServer\ServerKernel\embeddedDb\db\indigo, alias=1] opened successfully in 1110 ms.
[Server@6f9bb25a]: Startup sequence completed in 1149 ms.
[Server@6f9bb25a]: 2012-06-25 19:57:01.486 HSQLDB server 1.8.0 is online
[Server@6f9bb25a]: To close normally, connect and execute SHUTDOWN SQL
[Server@6f9bb25a]: From command line, use [Ctrl]+[C] to abort abruptly
[Server@75843a75]: [Thread[main,5,main]]: checkRunning(false) entered
[Server@75843a75]: [Thread[main,5,main]]: checkRunning(false) exited
[Server@75843a75]: Startup sequence initiated from main() method
[Server@75843a75]: Loaded properties from [C:\Pintu\Product\Build Releases\5.3 SP1\5.3 SP1 Re-release with more fixes\WithEDI\AdeptiaSuite_5_3_SP1_QuickUpgrade\server.properties]
[Server@75843a75]: Initiating startup sequence...
[Server@75843a75]: Server socket opened successfully in 1 ms.
[Server@75843a75]: Database [index=0, id=1, db=file:C:\Program Files\AdeptiaSuite\AdeptiaSuite-5.3\AdeptiaServer\ServerKernel\embeddedDb\db\logs, alias=1] opened successfully in 166 ms.
[Server@75843a75]: Startup sequence completed in 172 ms.
[Server@75843a75]: 2012-06-25 19:57:02.707 HSQLDB server 1.8.0 is online
[Server@75843a75]: To close normally, connect and execute SHUTDOWN SQL
[Server@75843a75]: From command line, use [Ctrl]+[C] to abort abruptly

Please choose the mode of removing the patch:
1. Recover Patch:
To recover from error in patch deployment. Application will be restored to original state (without any patch changes).
2. Rollback:
To roll back the patch if there is any product issue introduced after patch deployment. This option persist activity changes made between patch deployment & Roll back
  
```

Figure 3: Patch Recovery

8. If you want to remove the patch through **Recovery** mode, type **1** and press ENTER key.
If you want to remove the patch through **Rollback** mode, type **2** and press ENTER key.
9. This will remove the patch, which you have applied.
10. After removing the patch, refer the section [Post Patch Recovery Steps](#).

Post Patch Recovery Steps

This section describes the steps that you need to follow if you have removed this patch.

This section is not applicable, if you have applied this patch directly on Adeptia Suite ver 6.1 GA Release.

This section is applicable only if you have followed the below steps to upgrade your Adeptia Suite environment:

1. Installed Adeptia Suite ver 6.1 GA.
2. Applied any of the previous 6.1 maintenance patches.
3. Then applied the current patch.

Following are the high level task that you need to do after recovering the patch:

- Restore *launcher.properties* file
- Run alter script to restore log database changes.

Restoring launcher.properties file

Steps to restore launcher.properties file:

1. Make sure that Kernel and WebRunner are stopped.
2. Go to folder from where you have applied the patch. When you apply the patch a Recovery_<Date-Time Stamp>.zip is created.
3. Extract this recovery zip in a folder. Within this extracted folder, there is an *etc* folder, which contains the backup of original launcher.properties file.
4. Replace the launcher.properties of the currently installed Adeptia Suite environment with this file.

Restoring Log Database

Steps to restore Log Database

1. Download the alter script zip from following URL:
<http://support.adeptia.com/entries/31734556-Alter-script-to-restore-log-DB-for-V-6-1-Oct-Mt-Patch>
2. Extract this. Zip file in a new folder.
3. Go to this extracted folder. Within that folder there are .sql files with the *logDatabasePatchFile_<databaseName>.sql* name. These files contains the alter query for their respective log databases.
4. Connect to the log database of Adeptia Suite and run the respective query. For example, if the log database is SQL Server then you have to run the alter query from *logDatabasePatchFile_SQLServer.sql*
5. If you have enabled the Log Archival and for log archival you are using database other than the main log database, then you have to repeat the above step for archival database also.
6. Start the kernel and WebRunner.

Notes: If embedded database (HSQLDB) is used for log database then make sure to start the Kernel before running the alter query. To know how to connect to embedded log database, refer the [Appendix B: Connecting to Embedded Log Database](#) section.

Appendix A: Identify Backend Database

This section explains how to identify, which database is used as backend.

1. Go *./AdeptiaServer/ServerKernel/etc* folder, where Adeptia Server is installed.
2. Open the *server-configure.properties* file.
3. Search the property *abpm.backend.dbType*. From the value of this property, you can identify which database is being used as backend. The following table lists the possible values and corresponding database.

Property Value	Database Type
HSQL	Embedded Database
Oracle	Oracle Database
SQLServer	SQL Server
MySQL	MySQL Database

Appendix B: Connecting to Embedded Log Database

This section explains how to create a connection with embedded database (HSQLDB), which is used for storing Adeptia Suite logs.

Pr-requisites:

- Kernel must be started
- Database client application should be installed

In this section steps are written for connecting to HSQLDB using DBVizualiser. Steps may vary depending upon the Database client application you are using.

Steps to connect to embedded log database:

1. Open the database client application.
2. Open the wizard to create a new connection.
3. Use the **hsqldb-2.2.9.jar** to connect to the embedded log database. You can find this jar within <AdeptiaSuiteInstallationFolder>/AdeptiaServer/ServerKernel/web/libs/driver folder.
4. Define the Driver ClassName for HSQLDB.

For example: If you are using DBVizualizer then you can use Database Driver as HSQLDB server or HSQLDB embedded.

5. Define the URL using the following syntax:

jdbc:hsqldb:hsql://<databaseServerName>:<port>

Here:

<databaseServerName> is the name/IP address of machine where Adeptia Suite Kernel is running.

<Port> is the port, which the embedded log database uses. By default it is 2477.

For Example: jdbc:hsqldb:hsql://192.168.1.106:2477

6. Once you connect to the embedded log database, run the alter script as explained in [Restoring Log Database](#) section.

Appendix C: Exporting and Deploying Rich Forms

If you are using Rich Form, it is important to export the Rich Form before applying the patch and then deploy it after applying the patch.

This section explains:

- Exporting Rich Form
- Importing Rich Form

Exporting Rich Forms

Steps to export the Rich Forms

1. Make sure that Kernel and WebRunner are started.
2. To start migration utility, go to `./bin` folder where Adeptia Suite is installed.
3. For Windows OS double click the MigrationUtility.exe file. The Adeptia Migration wizard is displayed

For Linux OS, go to `./ServerKernel` folder and type the following command:

```
./migrationutility.sh -console
```

4. Follow the Migration utility wizard to select **Stand Alone Build > Environment Promotion** and then **Export**.
5. Click **Next**.
6. Enter the path, where Adeptia Suite is installed and click **Next**.
7. Select the groups in which Rich Forms are created and click **Next**.
8. Select **All Objects** and click **Next**. The **Select Services** screen is displayed.
9. From the list of services select **CustomApplication** and click **Next**.
10. Enter the target folder, where you want to save the exported zip.
11. Click Next and then Finish. The Rich Forms will be exported and saved into a zip file within the specified folder.

Deploying Rich Forms

Steps to deploy the Rich Forms

1. Make sure that Kernel and WebRunner are started.
2. To start migration utility, go to `./bin` folder where Adeptia Suite is installed.
3. For Windows OS double click the MigrationUtility.exe file. The Adeptia Migration wizard is displayed

For Linux OS, go to `./ServerKernel` folder and type the following command:

```
./migrationutility.sh -console
```

4. Follow the Migration utility wizard to select **Stand Alone Build > Environment Promotion** and then **Deploy**.
5. Click **Next**.
6. Select the zip, which is created while exporting the Rich Forms and click **Next**.
7. Enter the path, where Adeptia Suite is installed and click **Next**.
8. In the next screen enter your name and click **Next**.
9. Click **Finish**.

Appendix D: Updating Latest License

After applying the patch you need to update the latest license. Otherwise you will not be able to view new services added in the patch. To get the latest license, contact support@adeptia.com.

Pre-Requisite:

- Ensure that the Kernel and WebRunner are not running.

Updating License on Windows

Steps to update the license:

1. Click **Start > Programs > Adeptia Suite** and then select **Update License**. The License Wizard appears (see Figure 4).

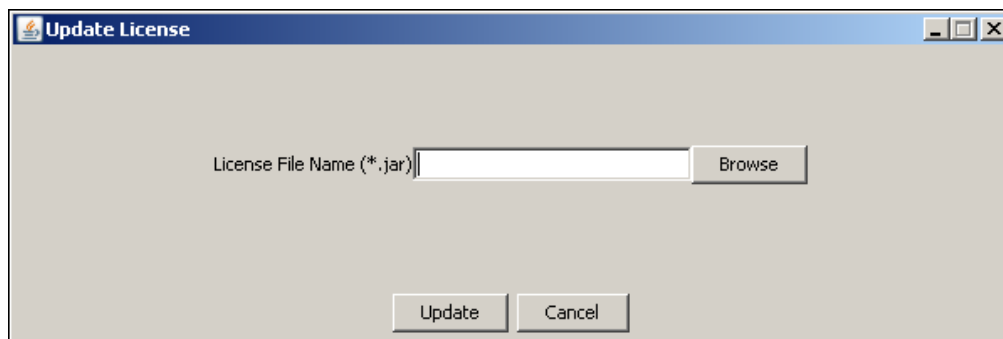


Figure 4: Select License File

2. Click **Browse** and select the `License.jar` file. The path of the selected file is shown in the `License File Name (*.jar)` field (see Figure 5).

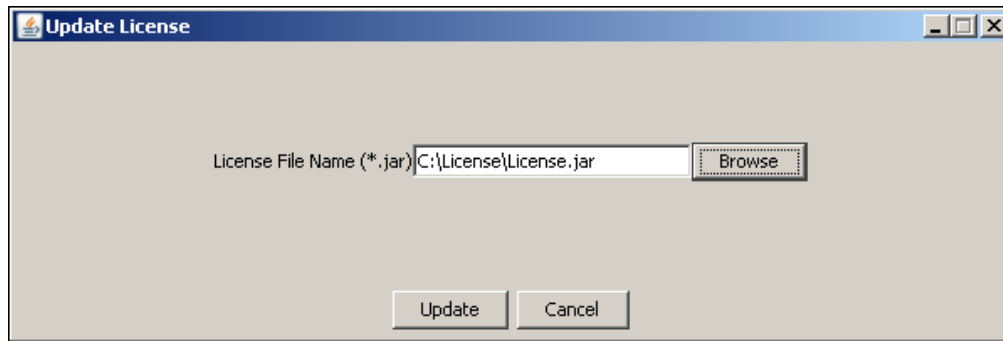


Figure 5: License File Path

3. Click **Update**. A warning message is displayed (see Figure 6).

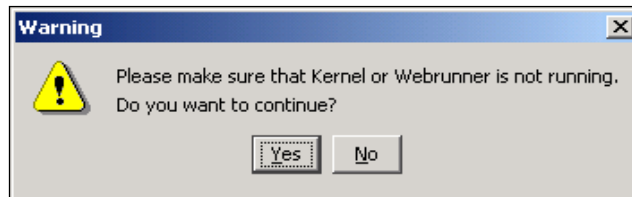


Figure 6: Warning Message

4. Make sure that Kernel and WebRunner are not running and click **Yes**. A dialog box appears confirming that the license is updated successfully (see Figure 7).

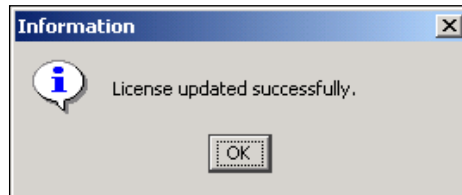


Figure 7: Confirmation Message

5. Click **OK** to close the dialog box.

Updating License on Linux

To update the license on Linux, you just need to copy the *License.jar* file in the **<InstallFolder>ServerKernel\etc** folder.



About Adeptia Inc.

Adeptia, an enterprise software company headquartered in Chicago, Illinois, provides a business process integration technology to easily and quickly automate business processes using industry-specific standards. Adeptia's unique product combines business process management with business-to-business integration. Adeptia's reusable and highly scalable technology has been deployed by Fortune 1000 companies. For more information, visit www.adeptia.com.

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