TROUBLESHOOTING ADOBE® LIVECYCLE® ES4
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Chapter 1: About This Document

This document contains information about how to troubleshoot many installation, configuration and administration issues that may arise with an Adobe® LiveCycle® Enterprise Suite 4 (ES4) production environment.

Who should read this document?

This guide provides information for administrators or developers who are responsible for installing, configuring, administering, or deploying LiveCycle components. The information provided is based on the assumption that anyone reading this guide is familiar with the following:

- J2EE application servers
- Microsoft® Windows®, AIX, Linux, or Solaris operating systems
- MySQL, Oracle®, DB2®, or SQL Server database servers
- Web environments

Conventions used in this document

This document uses the following naming conventions for common file paths.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Default value</th>
</tr>
</thead>
<tbody>
<tr>
<td>[LiveCycle root]</td>
<td>The installation directory that is used for all LiveCycle modules. The installation directory contains subdirectories for the Adobe® LiveCycle® Configuration Manager. This directory also includes directories relating to third-party technologies.</td>
<td>Windows: C:\Adobe\Adobe LiveCycle ES4&lt;br&gt;Linux and UNIX: opt/adobe/adobe_livecycle_ES4</td>
</tr>
<tr>
<td>[JBoss root]</td>
<td>(JBoss Turnkey) The home directory of the application server that runs LiveCycle.</td>
<td>C:\Adobe\Adobe LiveCycle ES4\jboss</td>
</tr>
<tr>
<td>[Adobe_JAVA_HOME]</td>
<td>(JBoss Turnkey) The home directory of the Java JDK installed by LiveCycle turnkey.</td>
<td>C:\Adobe\Adobe LiveCycle ES4\Java\jdk1.6.0_26</td>
</tr>
</tbody>
</table>
### Additional information

The resources in this table can help you learn about LiveCycle.

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<th>See</th>
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<td>Preparing your environment for installing or upgrading to LiveCycle</td>
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<td>Installing and Deploying LiveCycle for WebSphere</td>
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</table>

**Table 1: Environment Variables**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Default value</th>
</tr>
</thead>
<tbody>
<tr>
<td>[appserver root]</td>
<td>The home directory of the application server that runs the services that are part of LiveCycle.</td>
<td>JBoss on Windows: C:\jboss&lt;br&gt; JBoss on Linux, Solaris: /opt/jboss&lt;br&gt; WebSphere on Windows: C:\Program Files\IBM\WebSphere\AppServer&lt;br&gt; WebSphere on Linux and Solaris: /opt/IBM/WebSphere/AppServer&lt;br&gt; WebSphere on AIX: /usr/IBM/WebSphere/AppServer&lt;br&gt; WebLogic on Windows: C:\Oracle\Middleware\wlserver_10.3&lt;br&gt; WebLogic on Linux and Solaris: /opt/Oracle/Middleware/wlserver_10.3</td>
</tr>
<tr>
<td>WL_HOME</td>
<td>The install directory for WebLogic as specified for the WL_HOME environment variable.</td>
<td>WebLogic on Windows C:\Oracle\Middleware&lt;br&gt; WebLogic on Linux and UNIX: /opt/Oracle/Middleware/</td>
</tr>
<tr>
<td>[appserverdomain]</td>
<td>The domain that you configured on WebLogic server.</td>
<td>WebLogic on Windows: C:\Oracle\Middleware\user_projects\domains\base_domain&lt;br&gt; WebLogic on Linux and UNIX: /opt/Oracle/Middleware/user_projects/domains/base_domain</td>
</tr>
</tbody>
</table>
Getting help

This section describes the steps you should take before you contact Adobe Enterprise Support. If, after reviewing the LiveCycle documentation, you have not resolved your issues, contact Adobe Enterprise Support. To help expedite your service, have the following information available:

- What were you doing when the problem occurred?
- Can you repeat the problem?
- Did you see any error message when the problem occurred? Did you see anything else?
- If you deselect the Show Friendly HTTP Error Messages check box in Internet Explorer (Tools > Internet Options > Advanced), do the errors persist?
Chapter 2: Troubleshooting Installation and Deployment

Installation considerations

If you have problems installing, configuring, or deploying LiveCycle, make sure that you carefully followed the instructions in the LiveCycle documents listed in “Additional information” on page 2.

If you installed and configured everything according to the documentation, review the following sections for issues similar to those you are experiencing.

See also

“Installation, Configuration and Deployment Issues” on page 10
“Troubleshooting Error Messages” on page 39

System requirements considerations

Temporary directory space issues

LiveCycle installer fails to install on a system which has no space available on system temporary directory. In such cases, you get the error message in the console window indicating that the temporary directory does not have enough disk space.

To avoid this issue, ensure that your temporary directory has enough space. See the Preparing to Install LiveCycle (Single Server) guide for information about system requirements.

Slow performance of APIs for SharePoint, Documentum, and IBM Content Manager Connectors on Windows Server 2008

If LiveCycle is deployed on Windows Server 2008, the connector API calls made from Adobe® LiveCycle® Workbench 11 or from LiveCycle SDK to the Microsoft® SharePoint®, EMC® Documentum®, or IBM® Content Manager servers show slow performance.

To avoid this issue, disable automatic tuning of TCP Receive Window on your repository server or set the fine tuning level to highlyrestricted.

Use one of the following commands:

```bash
netsh interface tcp set global autotuninglevel=highlyrestricted
```
OR

```bash
netsh interface tcp set global autotuninglevel=disabled
```

Refer to the Microsoft knowledge base for more information on improving performance on Windows 2008 server.
**File size limitations for Output service**

To generate large files on UNIX systems using the Output Service, you must set the upper limit for file size to greater than or equal to the file being generated.

To avoid errors when generating PDF documents from large files, change the value for `fsize` in `/etc/security/limits` on UNIX systems to a value large enough to cover all file sizes.

**Application server considerations**

Verify the following application server settings before you contact Adobe Enterprise Support:

- **Transaction timeout**: 300
- **Initial heap size**: at least 1024
- **Maximum heap size**: 2048 MB
- **Prepared statement cache**: 100
- **Database connection pool maximum**:
  - IDP_DS is 30
  - RM_DS is 20
- **Database connection pool minimum**:
  - IDP_DS is 1
  - RM_DS is 1
- **Connection pool maximum connections**: 50

See also

“Troubleshooting Error Messages” on page 39

**Configuring Solaris 10 memory requirements**

Make the following memory configurations to avoid StuckThread issues on a Solaris environment:

- Add or increase the rlim values in the `/etc/system` file.
- Increase the swap space to at least twice the total RAM.

**Modify the rlim values:**

1. Locate and open the `/etc/system` file.
2. Locate and modify the `rlim` values as follows:
   
   ```
   set rlim_fd_cur: The initial (soft) maximum number of file descriptors per process. Set this value to 8192 or more.
   set rlim_fd_max: The hard maximum number of file descriptors per process. Set this value to 8192 or more. (This modification is required only if the default value is lower than 8192). You must have super user privileges to change this value.
   Note: The rlim_fd_max value must be equal to or greater than the rlim_fd_cur value.
   ```
3. Save and close the file.
4 Restart your computer.

**Add additional swap space:**
1 Increase the swap space so that the total swap space limit exceeds twice the total RAM amount. For example, if you have 8 GB of RAM, configure the swap space to exceed 16 GB.
2 Restart the computer if required.

**Verify the updated settings:**
1 Launch a new shell.
2 Type `ulimit -n` and press **Enter**.
3 Verify the value returned matches the `xlim` values you have set.
4 Type `swap -s` and press **Enter**.
5 Verify the value returned matches the new swap space value.

If any of the values fail to match the updated settings, ensure you have performed the steps as described and restart your computer.

**Database initialization considerations**

If you are having problems initializing the LiveCycle server, consider the following possibilities:

- Database instances must contain only alphanumeric characters in their names.
- (Linux and UNIX) Database instances must not exceed the platform-specific threshold of 8 characters.

If the initialization fails at the beginning of the process, check the following:

- (Non-turnkey installation) The LiveCycle database is already created and the user has appropriate rights to it.
- The database server is accessible when you ping it.
- The database is empty; that is, it has no tables, sequences, views, or indexes.
- The JNDI name for `IDP_DS` is created.

For more information see “Database Error Messages” on page 48.

**Addressing a high number of concurrent calls**

A high number of concurrent calls can negatively impact database performance. To avoid poor performance, increase the maximum connection pool size for the datasource (IDP_DS) to be more than the expected (or actual) number of concurrent calls.
**Trust store initialization fails**

(SQL Server only) When you create an SQL Server user name (for example, admin1) and you create a schema for the database (for example, admin2), and configure it to be the default schema for the SQL Server account, trust store initialization fails and a message similar to the one below appears:

- 00000027 TrustStoreBoo E POF is not installed, Trust Store cannot bootstrap unless POF is installed.

Ensure that the SQL Server user name (for example, admin1) and database schema name (for example, admin1) match, in order for the trust store to initialize successfully.

**Security Considerations**

**XMLForm.exe crashes when SELinux security is in “enforcing” mode**

You may encounter problems running LiveCycle on a server where NSA Security Enhanced Linux (SELinux) is in enforcing mode. With that configuration, a LiveCycle process that calls XMLForm.exe will not run. Users will not be able to open the associated form in Adobe LiveCycle Workspace, and an error message similar to this one appears in your application server log file:

- Service XMLFormService: Process ProcessResource(name=XMLForm.exe,pid=0) terminated abnormally with error code {3}

To correct this problem, change SELinux security to permissive mode.

**Upgrade Considerations**

**Invalid Configuration Manager screens**

When upgrading to LiveCycle ES4 from LiveCycle ES2, you can ignore the following Configuration Manager screens as they are no longer valid:

- Copy crypto jars
- Migrate ECM form templates
- Migrate ECM form templates (Contd.)

**Error when connecting to the database server**

When upgrading to LiveCycle ES4 from LiveCycle ES2, clicking the Verify Connection button on the Adobe LiveCycle ES4 Database screen might return the following error:

Unable to connect to the database server. Communication link failure. Last packet sent to the server was 0 ms ago.

In this case, start the database manually and re-run LiveCycle Configuration Manager.

**GDS directory not detected**

If you are upgrading to LiveCycle ES4 using command-line interface, the upgrade-migrateGDS command may not detect the default GDS directory from your previous LiveCycle installation.
In this case, copy the GDS contents manually to the default GDS directory of your LiveCycle ES4 installation.

**Content Services (deprecated) EAR fails to deploy during upgrade**

*Note: Adobe is migrating Adobe® LiveCycle® Content Services ES customers to the Content Repository built on the modern, modular CRX architecture, acquired during the Adobe acquisition of Day Software. The Content Repository is provided with LiveCycle Foundation and is available as of the LiveCycle ES4 release.*

While upgrading to LiveCycle, deployment of the Adobe® LiveCycle® Content Services 9 (deprecated) EAR may fail with the following exception message:

```
SchemaBootstr E org.alfresco.util.LogUtil error Schema auto-update failed
org.alfresco.error.AlfrescoRuntimeException: A previous schema upgrade failed or was not completed. Revert to the original database before attempting the upgrade again.
```

This issue occurs when the ALF_BOOTSTRAP_LOCK table is present in the LiveCycle database.

**EAR deployment failure due to high WebSphere resource utilization**

Content Services deployment may fail during upgrade if the WebSphere application server resource utilization is high.

To resolve this issue, perform the following procedures.

**Restoring the contents of lccs_data and the database from backup**

1. Revert to the original Content Services database by restoring the tables beginning with alf and avm from the backup copy of the database.
2. Restore the contents of the Content Store root location from the backup copy.

**Increasing the total transaction lifetime timeout value**

1. In the WebSphere Administrative Console, click **Servers > Server Types > WebSphere application servers** and then click the server name.
2. Click **Container Settings > Container Services > Transaction Service.**
3. On the Configuration tab, set the value of the **Total transaction lifetime timeout** setting to 900 seconds.
4. Click **Apply** or **OK**.
5. Restart the application server.

**Deploying the EARs in a different order**

Initiate the upgrade again. Now, in Configuration Manager, deploy the Content Services EAR before deploying the other EARs.

1. On the Deploy LiveCycle EARs screen, select **adobe-contentservices.ear** and then click **Deploy**.
2. Once the Content Services EAR has deployed successfully, deselect **adobe-contentservices.ear**, select the other EARs, and click **Deploy**.

**EAR deployment failure due to the ALF_BOOTSTRAP_LOCK database table**

If the ALF_BOOTSTRAP_LOCK table is present in the LiveCycle database, Content Services EAR deployment may fail during upgrade.
To resolve this issue, follow these steps:

1. Restore the contents of lccs_data and the database from backup. See “EAR deployment failure due to high WebSphere resource utilization” on page 8.
2. Delete the ALF_BOOTSTRAP_LOCK table from the LiveCycle database and reinitiate the upgrade.
3. Deploy the Content Services EAR and then deploy the other EARs. See “EAR deployment failure due to high WebSphere resource utilization” on page 8.

**Content Services (deprecated) EAR file is not deployed to all nodes during upgrade**

When upgrading to Content Services on a cluster, the Content Services EAR file is deployed to the first node but not to the other cluster nodes. The following two workarounds resolve this issue, but each has its drawbacks. Review each workaround to determine which is the best solution for your environment.

- During upgrade, while configuring the Content Services EAR file using Configuration Manager, point the Index Root directory for LiveCycle to a location different from what was specified for the previous version of LiveCycle. This workaround allows you to start all the nodes in the cluster.
  
  **Note:** With this option, the LiveCycle server can take a long time to start up if you have a lot of content saved in the Content Services repository. This is because each node of the cluster attempts to recreate the indexes.

- While deploying the EAR files, make sure that only one of the nodes of the cluster is started and specify the details pertaining to only that node during the entire upgrade process. This step ensures that the LiveCycle server only updates the indexes rather than recreating them.

  Once the node starts successfully, manually copy the indexes directory from that node to the other nodes of the cluster where you do not plan to run Configuration Manager. Now, start the other nodes of the cluster. The Content Services EAR file will now be successfully deployed to all cluster nodes.

  **Note:** Although this workaround is time-consuming to implement, it ensures minimal server downtime during startup.

**LiveCycle ES4 Service Pack 1 fails to install**

On upgrading from LiveCycle ES2 SP2 to LiveCycle ES4 SP1, LiveCycle configuration manager (LCM) encounters following errors

- com.adobe.workflow.initializer.WorkflowInitializerException: java.lang.IllegalArgumentException: Comparison method violates its general contract!
- java.lang.IllegalArgumentException: Comparison method violates its general contract!

To resolve the issue, add the following JVM argument in the generic JVM argument list of application server:

-Djava.util.Arrays.useLegacyMergeSort=true

**PDF Generator considerations**

The following topics address issues encountered with Adobe® LiveCycle® PDF Generator 11 and their respective resolutions.
Configure Acrobat to run Microsoft Office macros

PDFMaker disables macros while converting Microsoft Word and Microsoft Excel documents to PDF using PDF Generator, even when you have enabled macros in the File Type Settings using Administration Console.

To prevent PDFMaker from disabling the macro, you must set the value for the following registry to 0:

- **Microsoft Word**:
  HKEY_CURRENT_USER\Software\Adobe\Acrobat\PDFMaker\10.0\Word\Settings\DisableMacro

- **Microsoft Excel**:
  HKEY_CURRENT_USER\Software\Adobe\Acrobat\PDFMaker\10.0\Excel\Settings\DisableMacro

For more information about this known issue with Acrobat, see [http://kb2.adobe.com/cps/877/cpsid_87775.html](http://kb2.adobe.com/cps/877/cpsid_87775.html).

Configuring PDF Generator to convert MS Office files to PDF format

It is a known issue that on some LiveCycle servers, a DCOM permission policy must be modified to use PDF Generator to convert Microsoft Office application files successfully. Otherwise, the following error message appears:

```
INFO [STOUT] com.jniwrapper.win32.com.ComException: COM object method returns error code: 0x80004005; E_FAIL (Unspecified error)
```

Microsoft has documented the required steps in a knowledge base article on the Microsoft Help and Support site.

Known issue when a LiveCycle server is accessed over a Telnet session

Native to PDF conversions fail with an error when you access a LiveCycle server running on Windows Server 2008 using the Telnet service and start the application server using a batch script.

To prevent this issue, start the Telnet service with the **Allow service to interact with desktop** option selected. You can select this option when you modify the properties of the Services panel in Windows Server 2008.

Resolving paths when converting Excel files to PDF file

When you use PDF Generator to convert an Excel file to a PDF file, and the Excel file contains a file name and path function (\&[Path]\&[File]) in the header or footer, unexpected results may occur. When converting the file, PDF Generator copies it to a temporary location on the LiveCycle server and performs the conversion on that copy. As a result, the file name and path functions in the Excel document resolve to the temporary file name and location, and those values appear in the generated PDF file.

Installation, Configuration and Deployment Issues

General issues

**Configuration Manager does not start in command line interface**

This error occurs when you haven’t set the environment variable (ADOBE_JAVA_HOME for turnkey installations and JAVA_HOME for others). To ensure successful installation, always ensure that the required parameters are set before you launch the installer and Configuration Manager.

**install.bin fails to launch on Red Hat Enterprise Linux**

When you try to run the install.bin executable from the LiveCycle DVD on a machine running
Red Hat® Enterprise Linux®, the following error message appears:

- /bin/sh: bad interpreter: Permission denied

This occurs because Red Hat Enterprise Linux auto-mounts the DVD with noexec permissions. To resolve this issue and start the LiveCycle installation, perform these steps:

1. Unmount the drive by entering the following command:
   ```
   umount /media/CDROM
   ```

2. Remount the drive manually by completing the following tasks:
   - Create a directory named CDROM under the /media folder:
     ```
     mkdir /media/CDROM
     ```
   - Mount the LiveCycle DVD under the /media/CDROM folder:
     ```
     mount /dev/hda /media/CDROM
     ```
   - Change to the directory on which the DVD is mounted and run ./install.bin

### Configuration issues

**Turnkey Express mode fails on Turkish Windows Server 2008**

The Configuration Manager fails with the ALC-TTN-104-002 error on the Turkish Windows Server 2008 operating system.

To avoid this issue, perform the following steps and rerun the Configuration Manager:

1. Open ConfigurationManager.bat from the [LiveCycle root]/configurationManager/bin folder, in an editor.

2. Add the following JVM argument:
   ```
   -Duser.language=en  -Duser.country=US
   ```

3. Save and close the file.

**Configuration Manager picks a different JDK than is expected**

If you have JDKs from multiple vendors installed on your system, Configuration Manager may pick a JDK other than the JDK specified in the PATH environment variable.

To resolve this issue, launch Configuration Manager using ConfigurationManager.bat instead of ConfigurationManager.exe.

💡 You can examine the Configuration Manager logs to ensure that it is using the correct JDK.

### Deployment issues

**Failure to deploy EAR files**

Depending on the services you are installing and your system configuration, you may receive errors when deploying the EAR files. If this occurs, increase the MaxPermSize on your application server. For specific instructions on setting this value on your application server, see the Preparing to Install LiveCycle (Single Server) document.
Incorrect reporting of failure to deploy Content Services (deprecated) EARs

If the system does not meet minimum system requirements or is heavily loaded, during installation or upgrade to LiveCycle, Configuration Manager incorrectly reports failure in deploying the Content Services EAR. This can occur while installing LiveCycle or upgrading from LiveCycle 9.x or earlier.

In addition, Configuration Manager logs contain the error message: “Failed to make SOAP RPC call: invoke”. As a result of this incorrect reporting, Workspace EAR is not deployed and you are unable to proceed to the next step in the Configuration Manager.

If this error appears, do the following:

1. Verify that the SOAP request time out is correctly set per the documentation. See the section “Configuring WebSphere time-out settings” in the Installing and Deploying LiveCycle for WebSphere document.

2. From the WebSphere Administrative Console, verify if Content Services EAR is correctly deployed and running. If you determine that Content Services EAR is deployed correctly, do one of the following:
   - In Configuration Manager, deselect the EARs that are already deployed and running and select only those EARs that are yet to be deployed (in this case, adobe-workspace-client.ear), and click Deploy.
   - Deploy the Workspace EAR file (adobe-workspace-client.ear) manually from WebSphere Administrative Console. After this step, run the Configuration Manager again, and then select the tasks that follow the deployment of EARs in Configuration Manager.

   **Note:** When Configuration Manager fails to deploy any EAR files, you can deploy them manually from the administrative console of your application server. Follow this general outline for manually deploying EAR files and continuing the configuration tasks in Configuration Manager:
   - Manually deploy the required EAR files from the administrative console of your application server.
   - Close the currently running instance of Configuration Manager.
   - Launch Configuration Manager again, and select the tasks that follow the deployment of EARs that you completed manually.

Deploying LiveCycle in a distributed environment

If the application server instance (WebSphere) or Managed Server (WebLogic) is on a different server, and not on the server with Deployment Manager (WebSphere) or Admin Server (WebLogic), you must manually deploy the LiveCycle EAR files. If you attempt to deploy by using Configuration Manager, you may receive an error message indicating that deployment failed.

If you are experiencing this error when using Configuration Manager to deploy the EAR files, complete the following procedure.

To deploy the LiveCycle EAR files:

1. Exit Configuration Manager.

2. Manually deploy the EAR files. (See the “Manually Deploying” chapter in Installing and Deploying LiveCycle document for your application server.)

3. Run Configuration Manager and select the tasks only after you deploy LiveCycle EAR files.

LiveCycle component deployment validation failure on WebSphere

On deployment of the LiveCycle component, you may see this error:

   Component deployment failed validation. Cannot connect to server container

If so, complete the following procedure.
To increase the maximum transaction time-out and ORB service values:
1. In the WebSphere Administrative Console navigation tree, click Servers > Server Types > WebSphere application servers and, in the right pane, click the server name.
2. Under Container Settings, click Container Services > Transaction Service.
3. Increase all of these time-out values to address this error:
   - Total transaction lifetime timeout: 1800
   - Async response timeout: 1800
   - Maximum transaction timeout: 1800
4. Restart WebSphere Application Server.

Could not start/create deployment errors on Solaris
Download the GNU tar tool and use it to extract all files on a Solaris environment. Do not use the Solaris tar command to extract files otherwise errors similar to the following may occur due to missing files:

```
ERROR [org.apache.catalina.core.ContainerBase.[jboss.web].[localhost].[/invoker]]
Exception starting filter ReadOnlyAccessFilter
```

LiveCycle components display older version
After upgrading the LiveCycle server to the latest version or after deploying a service pack, the about dialog box of LiveCycle components displays an older version of the application.

Reason
After an upgrade or service pack install, the JBoss service is in a high-memory-use initialization state and the LiveCycle server is running in a non-clean state. It causes the LiveCycle components to display an older version.

Resolution
To display the correct version in the about dialog box of LiveCycle components, perform the following steps:
1. After an install, delete the following folders.
   - [JBoss_root]/server/<server name>/work
   - [JBoss_root]/server/<server name>/tmp
2. Restart the JBoss application server.

Troubleshooting your application server
This section describes possible issues you may encounter with your application server and how to troubleshoot them using log files.

Application server does not start
If the server does not start, perform these checks:
- Check the application server log file.
Check whether the server is already running. If so, it continues to run but fails to initialize. Stop and restart the application server.

Check whether another process is using any of the ports configured for LiveCycle server.

See the manufacturer’s documentation.

**JBoss Application Server issues**

**Content Services deployment fails after a JBoss server restart**

If deployment of Content Services fails after a JBoss Application Server restart, add Java processes and `mysqld-max-nt.exe` to the safe-processes list of your anti-virus software.

The error code 13 that appears in the logs is a permission-denied error.

**WebLogic Server issues**

**Configuration Manager hangs when redeploying an EAR file**

Configuration Manager may hang at an incomplete stage when redeploying a LiveCycle EAR file, and fail to deploy the new EAR file.

This problem occurs occasionally when WebLogic Server does not release a currently deployed EAR file. Perform the following procedure to correct this problem:

1. Stop Configuration Manager,
2. Manually remove the existing version of the LiveCycle EAR file that you want to update.
3. Stop and restart the administrative and managed WebLogic Servers.
4. Run Configuration Manager to deploy the new EAR file.

**WebSphere Application Server issues**

**Problems deleting directory tree on WebSphere**

If you are unable to delete a WebSphere directory tree, it may be because the path is too long. For example, you may be unable to delete the following file, which is used by Adobe LiveCycle Rights Management:

```
C:\Program Files\IBM\WebSphere\AppServer\profiles\AppSrv01\installedApps\[machine name]Node01Cell\LiveCycleES4.ear\rest-service.war\WEB-INF\classes\com\adobe\rightsmanagement\webservices\rest\serialization\objects\RestPolicyInfoSerializer\PolicyInfoStruct.class
```

To resolve this problem, map a drive to the location from which you want to delete files (in this example, `C:\Program Files\IBM\WebSphere\AppServer\profiles\AppSrv01\installedApps`) and then delete the files from that mapped drive.

**To map a drive location and delete files from the command line:**

1. Map a drive to the location you want to delete from. For example:
   ```
   net use L: \<hostname>\C$\Program Files\IBM\WebSphere\AppServer\profiles\AppSrv01\installedApps
   ```
2. Change to the mapped drive. For example:
L:

3 Delete the files. For example:
   del /s /q *

4 Change back to the original drive. For example:
   C:

5 Delete the drive mapping. For example:
   net use L: /delete

Alternatively, you can rename a directory in the path to one-character name to make the path shorter and then delete the files.

**OutOfMemory PermGen space error (WebSphere on Solaris)**

If you are using WebSphere application server on Solaris, Configuration Manager might fail during LiveCycle component deployment with the outOfMemory PermGen space error.

To avoid this error, add the following parameter in application server’s Generic JVM Arguments section:

-XX:MaxPermSize=512m

Restart the application server and then proceed normally. For more information, see the Preparing to Install LiveCycle (Single Server) document.

**Application server stops responding (WebSphere and DB2 on AIX)**

If multiple users use Workbench at the same time in a WebSphere and DB2 configuration on AIX, LiveCycle server might stop responding when a user tries to deploy an application.

To avoid this error, do the following:

1 Open \[Workbench_HOME\]/workbench.ini file using a text editor.

2 Locate the following line, and change the value to 1.
   
   -Dcom.adobe.workbench.unsupported.service.cache.batch.threads=5

3 Save and close the file.

**NullPointerException while accessing Contentspace (deprecated)**

If you encounter a NullPointerException while trying to access Adobe LiveCycle Contentspace 9 (deprecated), restart the application server and access Contentspace again.

This issue is observed only on WebSphere.

**(AEM forms only)Adaptive forms fails to compile and load CSS**

On the AIX/WebSphere environment, the adaptive forms fail to compile and load CSS. Perform the following steps to resolve the issue:

1 Stop the application server.

2 Start the application server with the following JVM argument:
   
   -Xss2048k
Troubleshooting your LiveCycle database

This section describes possible issues you may encounter with your LiveCycle database and suggests steps for avoiding or working around them.

If your database is failing to bootstrap, perform the following check:

- The database has adequate disk space to grow.
- The database configuration meets minimum database configuration requirements. For configuration requirements for your database type, see the Preparing to Install LiveCycle (Single Server) document.
- See the manufacturer’s documentation.

**Note:** If your database administrator cannot successfully bootstrap the database after these checks, the database manufacturer needs to be contacted immediately.

To ensure continuous availability and performance of your LiveCycle database, do the tasks:

- Continuously monitor the database as it is running for performance related problems.
- Continuously monitor database growth to ensure adequate disk space is available at all times.
- Consider LiveCycle component usage: Intense Adobe® LiveCycle® Process Management applications will grow the database more substantially than intense PDF Generator applications.
- Review manufacturers database performance documentation.

**IBM DB2 configuration settings**

If you are running LiveCycle with a DB2 database and the computer stops responding, check the server log files for deadlock-related messages. If such messages are in the log files, change your DB2 configuration parameters:

- Set the `LOCKTIMEOUT` parameter to 15.
- Double the values for the `APPLHEAPSZ`, `STMTHEAP`, and `SORTHEAP` parameters.

You must then restart the database and application server.

**Stale sessions showing up in Oracle database**

When using certain LiveCycle SQL statements, you might see stale sessions, similar to the following, created in the Oracle database.

```sql
select rowid, r.id, r.documentid, d.id, (select count(distinct r2.sessionid) from tb_dm_session_reference r2 where r2.documentid=d.documentid) r2id, d.documentid, d.sessionid
from tb_dm_session_reference r right join tb_dm_deletion d on ((d.documentid is null) or d.documentid = r.documentid) and d.sessionid = r.sessionid
```

To resolve this issue, you must do the following:

- Add the `-Dcom.adobe.idp.runPurgeDeletions=false` JVM system property to your application server.

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Troubleshooting Installation and Deployment

Ensure that the Enable document storage in the database core setting is turned off. To verify the setting:
1. Log in to the LiveCycle Administration Console.
2. Select Settings > Core System Settings > Configurations.
3. Ensure that the Enable document storage in the database is deselected.

Note: The system property prevents the problematic query as long as the core setting Enable document storage in the database is set to off. If the system property is not set, or if the core setting Enable document storage in the database is set to on, the prevention mechanism doesn’t work.

Troubleshooting with log files

This section describes how to troubleshoot LiveCycle using the log files.

LiveCycle log file
By default, the LiveCycle log file is located in the \[LiveCycle root\] directory and is named install.log. This log file is useful for LiveCycle failure analysis and may be required when dealing with Adobe Enterprise Support.

Configuration Manager log file
By default, the Configuration Manager log file is in \[LiveCycle root\]\ConfigurationManager\log and may be named lcm.0.log. The log files are useful for Configuration Manager failure analysis and may be required when dealing with Adobe Enterprise Support.

Troubleshooting your application server using log files
Information in the application server log files can be used to help troubleshoot problems you are experiencing with your LiveCycle implementation. If the log files do not provide enough information to help you troubleshoot problems, you can enable verbose logging to increase logging details. Verbose logging should be enabled only during troubleshooting; otherwise, it slows system performance and consumes additional disk space for log files.

Note: It is recommended that you work with Adobe Enterprise Support to troubleshoot problems when using verbose log files.

JBoss log file
By default, the JBoss log files are named boot.log and server.log located at:
- Turnkey - \[LiveCycle root\]\jboss\server\lc_turnkey\log
- Manual - \[appserver root\]\server\standard\log.

The log files are useful for JBoss Application Server and LiveCycle failure analysis, and may be required when dealing with Adobe Enterprise Support.

If the log files do not provide enough information to help you troubleshoot problems, you can enable TRACE logging to increase logging details by modifying the log4j.xml file in the \[appserver root\]\conf directory.

Note: Ensure that you back up the log4j.xml file in the \[appserver root\]\conf directory before you modify it.

To enable TRACE logging in JBoss:
1. From a command prompt, go to the \[appserver root\]\conf directory.
2 Edit the log4j.xml configuration file using a text editor.

3 Locate the `<root>` logger element in the file and change it as follows:

```xml
<root>
    <priority value="INFO" />
    <appender-ref ref="FILE" />
</root>
```

4 Above the `<root>` logger element, type the following text:

```xml
<category name="org.jboss.ejb">
    <priority value="TRACE" class="org.jboss.logging.XLevel"/>
    <!--Comment the line below if you want to disable tracing -->
    <appender-ref ref="TRACE_FILE" />
    <appender-ref ref="FILE" />
</category>
```

5 Locate `<appender name="FILE"` in the file and change or enter the following line:

```xml
<param name="Threadhold" value="DEBUG" />```

6 Locate `<!-- A size based file rolling appender in the file and paste the appender in the line below:`

```xml
<appender name="TRACE_FILE"
    class="org.jboss.logging.appender.RollingFileAppender">
    <errorHandler class="org.jboss.logging.util.OnlyOnceErrorHandler"/>
    <param name="File" value="${jboss.server.home.dir}/log/trace.log"/>
    <param name="Append" value="false"/>
    <param name="MaxFileSize" value="5MB"/>
    <param name="MaxBackupIndex" value="2"/>
    <layout class="org.apache.log4j.PatternLayout">
        <param name="ConversionPattern" value="%d %-5p [%c] %m%n"/>
    </layout>
</appender>
```

7 Save and close the log4j.xml file.

**To disable TRACE logging in JBoss:**

1 From a command prompt, go to the `[appserver root]/conf directory.

2 Edit the log4j.xml configuration file using a text editor.

3 Locate the `<root>` logger element in the file and change it as follows:

```xml
<root>
    <priority value="INFO" />
    <appender-ref ref="FILE" />
</root>
```

4 Above the `<root>` logger element, enter the following text:

```xml
<category name="org.jboss.ejb">
    <priority value="TRACE" class="org.jboss.logging.XLevel"/>
    <!--Comment the line below if you want to disable tracing -->
    <appender-ref ref="TRACE_FILE" />
    <appender-ref ref="FILE" />
</category>
```

5 Locate `<appender name="FILE"` in the file and change or enter the following line:

```xml
<param name="Threadhold" value="DEBUG" />`
Locate a size based file rolling appender in the file and paste the appender in the line below:

```xml
<appender name="TRACE_FILE"
    class="org.jboss.logging.appender.RollingFileAppender">
  <errorHandler class="org.jboss.logging.util.OnlyOnceErrorHandler"/>
  <param name="File" value="${jboss.server.home.dir}/log/trace.log"/>
  <param name="Append" value="false"/>
  <param name="MaxFileSize" value="5MB"/>
  <param name="MaxBackupIndex" value="2"/>
  <layout class="org.apache.log4j.PatternLayout">
    <param name="ConversionPattern" value="%d %-5p [%c] %m%n"/>
  </layout>
</appender>
```

7 Save and close the log4j.xml file.

**WebLogic log file**

By default, the WebLogic log file is located in /var/log/httpd/error_log. The log files are useful for WebLogic Server and LiveCycle bootstrapping failure analysis, and may be required when dealing with Adobe Enterprise Support.

If the log file does not provide enough information to help you troubleshoot problems, you can specify the level of tracing in the log file to increase logging details. To do this, modify the LogLevel parameter in the [appserver root]/conf/httpd.conf file. LogLevel sets how verbose the error messages in the error logs are. LogLevel can be set (from least verbose to most verbose) to emerg, alert, crit, error, warn, notice, info, or debug. The default LogLevel is warn.

*Note: Ensure that you back up the [appserver root]/conf/httpd.conf file before you modify it.*

**To enable debug LogLevel in WebLogic:**

1 From a command prompt, navigate to the [appserver root]/conf directory.
2 Edit the httpd.conf configuration file using a text editor.
3 Locate the LogLevel in the file and change it as follows:

```plaintext
LogLevel debug
```

❖ Save and close the httpd.conf file.

When you have completed troubleshooting, repeat steps 1 to 4 but change the LogLevel to warn.

**WebSphere log file**

By default, the WebSphere log file is located at [appserver root]/logs/server1. The log files are useful for WebSphere Application Server and LiveCycle bootstrapping failure analysis, and may be required when dealing with Adobe Enterprise Support.

If the log files do not provide enough information to help you troubleshoot problems, in the WebSphere Administrative Console, you can enable TRACE logging to increase logging details.

**To enable TRACE in WebSphere:**

1 Log in to WebSphere Administrative Console and, in the navigation tree, click Troubleshooting > Logs and Trace and, in the list of servers, click server1, and then click Change Log Detail Levels.

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2 Select Enable Trace and, in the Trace Specification box, type
com.adobe.*=all=enabled:com.adobe.framework.UITools=all=disabled.

[appserver root]/profiles/[profile_name]/logs/[server name]

Viewing the JVM system output and error logs
The JVM system output and error logs are valuable tools for troubleshooting problems with your server.

To view the JVM system output and error logs:
1 Log in to WebSphere Administrative Console and, in the navigation tree, click Troubleshooting > Logs and Trace.
2 Click the name of the application server, and then click JVM Logs.
3 Click the Runtime tab and, under either System.out (to view the JVM system output log) or System.err (to view the error log). Click View. If any of the selections are unavailable, you can view them from the Configuration tab by specifying the SystemOut.log and SystemErr.log file names. By default the files are located in the following location:

[appserver root]/profiles/[profile_name]/logs/[server name]

To prevent Java core dumps from appearing during EAR deployment or when you restart the server:
Ensure that JAVA_HOME_32 is set only as an environment variable and is not included in the PATH.

To prevent repetitive "reindexImpl started" error messages in the WebSphere server logs:
After Content Services is deployed, you may observe the following error message appearing repetitively in SystemOut.log:

• IndexTransact I org.alfresco.repo.node.index.IndexTransactionTracker reindexImpl
  reindexImpl started: org.alfresco.repo.node.index.IndexTransactionTracker@290c290c

To resolve the issue, follow these steps:
1 In the WebSphere navigation tree, click Servers > Server Types > Websphere application servers.
2 Click an application server listed in the right pane.
3 Click Troubleshooting > Change Log Level Details.
4 In the Components list, navigate to the org.alfresco.repo.node.index.IndexTransactionTracker package.
5 Click the org.alfresco.repo.node.index.IndexTransactionTracker package and select No Logging.
6 Repeat steps 1-5 for the Configuration and Runtime tabs, and for all nodes in the cluster.

To prevent repetitive “Failed job” error messages originating from the Quartz scheduler:
If you are using the SOAP port for any of your services, you may encounter an issue that causes repetitive “Failed job” error messages, originating from the Quartz scheduler, to appear in the WebSphere log file for all nodes in the cluster.

These error messages continue to appear even after the node servicing the request has been shut down and another node has completed the pending job.

To avoid this issue, use the admin console to change the log configuration for all nodes in the WebSphere cluster. Set the log level for the following packages to severe:

• org.quartz.impl.jdbcjobstore
• com.adobe.idp.scheduler.jobstore.DSCJobStoreTX

**Deleting the application server transaction log file**

If the component solutions fail to deploy for any reason, the application server that hosts LiveCycle does not restart because it attempts to recover what it interprets as rolled back transactions but fails to do so. To resolve this issue, locate and delete the application server transaction log file and restart the application server.
Chapter 3: Troubleshooting Administration Tasks

This chapter discusses possible issues with your deployed LiveCycle environment and with Administration Console, as well as when to contact Adobe Enterprise Support.

Note: Refer to the LiveCycle Error Code Reference for a list of errors that you may encounter while using LiveCycle, their causes, and the actions that you can take to resolve them.

Note: Configuration Manager does not support using an admin server if a managed server is not configured.

Login issues

If you cannot access any of the LiveCycle web applications, such as Administration Console or Workspace web pages, ensure that the following conditions exist:

• The LiveCycle database tables were created and the user has appropriate rights to the database.
• The database server is accessible when you ping it.

Note: Only administrators with the appropriate roles can access the Workspace application. For information about roles and permissions, see LiveCycle Administration Help.

If you cannot log in to Administration Console as a user with administrator privileges, do the following tasks:

• Try to log in as Super Administrator, that is, use Administrator as the user ID. This user always checks in to the local database before going to any other authentication provider.
• Ensure that the custom SPI conditions described below exist.
• Check whether the administrator user has all the required roles. If your LDAP tree has an administrator name, the LiveCycle roles may have been overwritten. Contact Adobe Enterprise Support.

If you cannot log in to the Workspace web pages, ensure that the following conditions exist:

• The host file contains the Workspace server name.
• The Workspace server is accessible when you ping it.
• Neither the client nor the Workspace server are blocked by a firewall.
• The settings for the Workspace server name, JNDI, or URL provider port are correct.

If you are using a custom SPI and cannot log in, ensure that the following conditions exist:

• Check the config.xml file to ensure that the association between the domain and its authentication provider is correct. If it is incorrect or absent, login authentication will fail. The domain must be configured in the config.xml file as follows:
Every domain keeps a reference of the authentication provider it uses for authentication. Ensure that the authentication provider is configured in the config.xml file as follows:

```xml
<node name="Domains">
  <map/>
  <node name="<Domain_Name>">
    <map>
      <entry key="description" value="any suitable description"/>
      <entry key="name" value="<Domain_Name>"/>
      <entry key="isLocal" value="true/false"/>
    </map>
  </node>
  <node name="AuthConfigs">
    <map/>
    <node name="<Profile_Name>">
      <map>
        <entry key="authProviderNode" value="/Adobe/LiveCycle/Config/UM/AuthProviders/<AuthenticationProvider>/"/>
      </map>
    </node>
  </node>
</node>

Access the Services page in Administration Console on JBoss

If you go to the Services page in Administration Console and the page appears blank, perform this workaround to ensure that the page displays correctly:

1. Start JBoss Application Server manually (not using the Windows service) using the command:
   ```bash
   run -b localhost -c <profile name>
   ```
   Use the `profile name` as per your installation e.g. all, standard, lc_<dbname>, etc.

2. In the Windows hosts file located in the `C:\windows\system32\drivers\etc\hosts` directory, add the IP address and host name of the server.
Troubleshooting Administration Tasks

Login pages appear even after SSO authentication
The Workspace and Administration Console login pages appear even after SSO has been configured and the user has authenticated using it.

To resolve this issue, create a new realm that filters to /um/login and add it to the policy.

Example resolution for SiteMinder
To resolve this issue for SiteMinder 6.0, perform these steps while configuring SiteMinder with LiveCycle:
1. Create a realm named UM Login that filters to /um/login. All authentications will route through this realm.
2. Create a rule for the new realm. While doing so, specify '*' as the resource.
3. In the Response Properties dialog box, specify Auth Response as the name and the add an attribute with the value ADB_USER=<%userattr="cn"%>.
4. Add UM Login to the policy as a rule.

First time login into Correspondence Management Solution
The first time a user logs into the Correspondence Management Solution, the user encounters a Status 403 error.
1. Navigate to http://<hostname>:<port>/lc/content/cm/manageassets.html.
2. The browser does not redirect to the appropriate page.
   The Status 403 error is displayed.

Resolution
1. Log into the CRX environment.
   Log in with administrator credentials.
2. Navigate to http://<hostname>:<port>/lc/content/cm/manageassets.html.
You can now log into the Correspondence Management Solution.

Performance considerations
If you are experiencing performance issues with LiveCycle, consider the following:

- **Synchronization issues**: If many threads are waiting at the same time in the same part of the code, obtain a thread dump when the congestion passes.
  *Important*: Thread dumps may disable the JVM.

- **Slow external resources**: If many threads are waiting for a return message from an external source, obtain a thread dump to find threads that are waiting for sources such as databases or LDAP servers.

- **Slow GC collection**: If `verbosegc` performs compaction frequently, reduce the amount of garbage generated by the application by introducing object pooling or caching. If the log shows long garbage collection cycles in `verbosegc`, reduce the maximum size.

- **High user CPU**: If your CPU is running at 75% or higher, consider these options:
  - Reduce the pool size of the web container or ORB threads.
• Reduce the number of database connections on the database server.
• If you experience consistently high CPU usage, consider adding processing resources.
• If the CPU is on the database server, reduce the datasource maximum connection setting.

**High datastore repository size:** Some operations in LiveCycle can cause a substantial increase in the size of the datastore repository. For example, in the Correspondence Management Solution, this can occur if you run a batch process that involves publishing a large number of assets. You can use the datastore garbage collector to clear out any temporary data from the repository.

To run the datastore garbage collector:

2. Search and click com.adobe.granite (type Repository).
5. Click Invoke to run the garbage collector.

**Importing package with large number of assets:** When you import a package that contains a large number of assets, you may experience the following issue:

• Java Heap Space error
  To resolve this issue, you need to increase the Java Heap space to 4GB.
• Correspondence Management and CRX user interfaces become inaccessible.
  It is recommended that you perform large import processes in a batch operation.

**Slow performance or transaction timeout exception while using Administration Console**

* New for 10*

If you are performing multiple operations on large number of files using Administration Console, you might experience slow performance or receive the Timeout exception.

To resolve this issue, you must increase the transaction timeout value for your application server. To configure the transaction timeout value, see the product documentation for your application server.

**Improving performance during asynchronous service invocation**

For improving performance during asynchronous invocation of services, set the following JVM arguments:

• `-Dadobe.work-manager.queue-refill-interval=1`
• `-Dadobe.workmanager.memory-control.enabled=false`

For JBoss, add these arguments to:

• (Windows) the run.bat, or the run.conf.bat file as per your JBoss installation.
• (UNIX) the run.sh, or the run.conf file as per your JBoss installation.

See “Configuring the JVM arguments” in the *Installing and Deploying LiveCycle for WebSphere* guide for information on setting JVM arguments for WebSphere.

See “Configuring the JVM arguments” in the *Installing and Deploying LiveCycle for WebLogic* guide for information on setting JVM arguments for WebLogic.
Remote invocation fails with application servers on pure IPv6
If your LiveCycle server is deployed in a pure IPv6 environment, remote invocation of services on the LiveCycle server might fail. This is an issue with Sun JDK used with the clients. To avoid this error, use the IBM JDK with clients when LiveCycle is deployed on application servers in a pure IPv6 environment.

Process Management performance issue on Oracle
Process Management throughput for Oracle databases is sometimes observed to deteriorate over time. The LiveCycle development team has made some SQL*Plus scripts available to help resolve this issue. These scripts improve performance in scenarios having a large number of users.

You can contact Adobe Enterprise Support and ask for scripts associated with the TechNote titled "Process Management performance issue on Oracle" (document ID cpsid_85089).

Improving Windows Server performance with LDAP
Using connection pooling on the search connection can decrease the number of ports needed by as much as 50% because that connection always uses the same credentials for a given domain, and the context and related objects are closed explicitly.

Configure Windows Server for connection pooling
1 Start the registry editor by selecting Start > Run and, in the Open box, type regedit, and then click OK.
2 Go to the registry key HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters
3 In the right pane of the registry editor, look for the TcpTimedWaitDelay value name. If the name does not appear, select Edit > New > DWORD Value to add it.
4 In the name box, type TcpTimedWaitDelay.
5 If you do not see an insertion point and New Value # inside the box, right-click inside the right panel, select Rename from the menu and then, in the name box, type TcpTimedWaitDelay.
6 Repeat steps 4 and 5 for the following value names: MaxUserPort, MaxHashTableSize, and MaxFreeTcbs.
7 Double-click inside the right pane to set the TcpTimedWaitDelay value; under Base, select Decimal and, in the Value box, type 30.
8 Double-click inside the right pane to set the MaxUserPort value; under Base, select Decimal and, in the Value box, type 65534.
9 Double-click inside the right pane to set the MaxHashTableSize value; under Base, select Decimal and, in the Value box, type 65536.
10 Double-click inside the right pane to set the MaxFreeTcbs value; under Base, select Decimal and, in the Value box, type 16000.

Important: Serious problems may occur if you modify the registry incorrectly by using Registry Editor or by another method. These problems may require that you reinstall your operating system. Modify the registry at your own risk.

Scheduler service configuration for nondefault JNDI URLs
(Non-clustered environments only)
To function correctly, the Scheduler service may require some additional configuration.
**JBoss**

On JBoss, if the JNDI URL differs from the default JNDI URL for the application server (that is, for JBoss: jnp://localhost:1099), this is the JNDI URL for the IDP_DS that is managed by your application server:

```java
org.quartz.dataSource.idp.java.naming.provider.url
```

1. Create a new file named dscscheduler.properties.
2. Set the values of the above properties as necessary for the app server node, such as the following text:

   ```java
   org.quartz.dataSource.idp.java.naming.provider.url = jnp://localhost:1099/
   org.quartz.jobstore.isClustered = true
   org.quartz.scheduler.instanceId = AUTO
   
   -Dadobe.idp.scheduler.properties=[Path to this file]/dscscheduler.properties
   ```
3. Add the JVM argument `-Dadobe.idp.scheduler.properties=[Path to this file]/dscscheduler.properties` to the application server startup scripts/configuration.

**WebSphere**

On WebSphere, if the JNDI URL differs from the default JNDI URL for the application server (that is, for WebSphere: iiop://localhost:2809), this is the JNDI URL for the IDP_DS that is managed by your application server:

```java
org.quartz.dataSource.idp.java.naming.provider.url
```

1. Create a new file called dscscheduler.properties.
2. Set the values of the above properties as necessary for the app server node, such as the following values:

   ```java
   org.quartz.dataSource.idp.java.naming.provider.url = iiop://localhost:2809/
   org.quartz.jobstore.isClustered = true
   org.quartz.scheduler.instanceId = AUTO
   
   -Dadobe.idp.scheduler.properties=[Path to this file]/dscscheduler.properties
   ```
3. Add the JVM argument `-Dadobe.idp.scheduler.properties=[Path to this file]/dscscheduler.properties` to the application server startup scripts/configuration.

**WebLogic**

On WebLogic, if the JNDI URL differs from the default JNDI URL for the application server (that is, for WebLogic: t3://localhost:7001), this is the JNDI URL for the IDP_DS that is managed by your application server:

```java
org.quartz.dataSource.idp.java.naming.provider.url
```

1. Create a new file named dscscheduler.properties.
2. Set the values of the above properties as necessary for the app server node, such as the following values:

   ```java
   org.quartz.dataSource.idp.java.naming.provider.url = t3://localhost:7001/
   org.quartz.jobstore.isClustered = true
   org.quartz.scheduler.instanceId = AUTO
   
   -Dadobe.idp.scheduler.properties=[Path to this file]/dscscheduler.properties
   ```
3. Add the JVM argument `-Dadobe.idp.scheduler.properties=[Path to this file]/dscscheduler.properties` to the application server startup scripts/configuration.
FileNet API excessive logging and performance issues on WebLogic

For LiveCycle installed on a WebLogic Server, IBM® FileNet APIs might experience performance issues owing to the excessive logging. To improve the performance in such cases, you should change the logging level from 'debug' to 'Fatal'.

1. On FileNet Content Server, navigate to the C:\Program Files\FileNet\ContentEngine\config\samples directory.
2. Copy the log4j.properties.client file to the LiveCycle server machine and rename it to log4j.properties.
3. Open the log4j.properties file and comment out the entries for the appenders FileNetTraceAppender and FileNetTraceRollingAppender:

   ```
   #=== FileNetTraceAppender
   log4j.appender.FileNetTraceAppender=org.apache.log4j.FileAppender
   log4j.appender.FileNetTraceAppender.File=/p8_api_trace.log # This is the layout that the TraceLoggingConfiguration framework on the server uses.
   # To use this layout, jace.jar must be present in the classpath.
   #log4j.appender.FileNetTraceAppender.layout=com.filenet.apiimpl.util.TraceLayout # Comment out the following lines if using the FileNet TraceLayout
   log4j.appender.FileNetTraceAppender.layout=org.apache.log4j.PatternLayout
   log4j.appender.FileNetTraceAppender.layout.ConversionPattern=%d %5p [%t] - %m%r
   #=== FileNetTraceRollingAppender
   log4j.appender.FileNetTraceRollingAppender=org.apache.log4j.RollingFileAppender
   log4j.appender.FileNetTraceRollingAppender.File=/p8_api_trace.log
   log4j.appender.FileNetTraceRollingAppender.MaxFileSize=100MB
   log4j.appender.FileNetTraceRollingAppender.MaxBackupIndex=1
   # This is the layout that the TraceLoggingConfiguration framework on the server uses.
   # To use this layout, jace.jar must be present in the classpath.
   #log4j.appender.FileNetTraceRollingAppender.layout=com.filenet.apiimpl.util.TraceLayout # Comment out the following lines if using the FileNet TraceLayout
   log4j.appender.FileNetTraceRollingAppender.layout=org.apache.log4j.PatternLayout
   log4j.appender.FileNetTraceRollingAppender.layout.ConversionPattern=%d %5p [%t] - %m%r
   ```

   â Set FileNet logger to FATAL and remove FileNetTraceAppender and FileNetTraceRollingAppender from the logger:

   Replace
   ```
   log4j.logger.filenet_error = error, FileNetConsoleAppender,
   FileNetErrorRollingAppender, FileNetTraceRollingAppender
   ```
   with
   ```
   log4j.logger.filenet_error = fatal, FileNetErrorRollingAppender
   ```

   â Set FileNet API logger to FATAL:

   Replace
   ```
   #log4j.logger.filenet_error.api = warn
   ```
   with
   ```
   log4j.logger.filenet_error.api = fatal
   ```

4. Save the log4j.properties file.

5. Add the path of the folder containing the log4j.properties file to the FileNet Component ID entry present in the adobe-component-ext.properties file placed in the LiveCycle application server. In WebLogic application server, this file is in [WL_HOME]/user_projects/domains/<domain name>.

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For example, if log4j.properties file is stored at location: 'C:/log4j_file/log4j.properties', then add “C:/log4j_file” to the adobe-component-ext.properties file.

6 Restart the application server.

**Cache item expiry warnings when many concurrent users are accessing Content Services (deprecated)**

*Note: Adobe is migrating Adobe® LiveCycle® Content Services ES customers to the Content Repository built on the modern, modular CRX architecture, acquired during the Adobe acquisition of Day Software. The Content Repository is provided with LiveCycle Foundation and is available as of the LiveCycle ES4 release.*

The following warning message may appear in the application server logs when multiple concurrent users are accessing Content Services:

```
ReadWriteCach W org.hibernate.cache.ReadWriteCache handleLockExpiry An item was expired by the cache while it was locked (increase your cache timeout):
org.alfresco.repo.domain.hibernate.NodeImpl.properties
```

To resolve this issue, set the following JVM argument in the application server startup scripts to use the Least Recently Used (LRU) algorithm instead of the default heuristic algorithm to refresh ehcache:

```
-Dnet.sf.ehcache.use.classic.lru=true
```

**Uninstall issues**

**Removing JBoss/MySQL services, folders, and files**

If you choose to retain JBoss or MySQL while uninstalling LiveCycle, you may not be able to uninstall these applications later using uninstallers in the [LiveCycle root]\Uninstall_Adobe LiveCycle ES4 folder.

Do the following to uninstall JBoss/MySQL manually:

1 Delete the services with the name “JBoss for LiveCycle 10” or “MySQL for LiveCycle 10” using the following command:

   ```
   sc delete <service name>
   ```

2 Remove JBoss/MySQL folders and files.

**Turnkey mode is disabled after an incomplete install or uninstall**

The Turnkey mode of installation becomes unavailable after an unsuccessful attempt to install or uninstall LiveCycle.

To resolve this issue, check if services with the name “JBoss for LiveCycle 10” or “MySQL for LiveCycle 10” already exist on the system. If these services exist, delete them and their related registry entries before initiating a fresh Turnkey install.

Use the following command to delete the services:

- sc delete <service name>
Troubleshooting output errors

Some output files are not converted from a watched folder

Some LiveCycle servers (most commonly those running on UNIX) invokes the conversion process before all the associated files are copied to the watched folder, and therefore missing some of the files. To avoid this issue, create a folder outside the watched folder hierarchy, copy all of the required files into the folder, and then copy the entire folder to the watched folder root.

OutputIVS Printer not found

If you see this error, then follow the steps below:

1. In the URL `\<servername>\<printername>`, specify the full name of the printer.
2. Add the printer to the windows account before starting JBoss.
3. Enable JBoss to run in the context of a valid user. To perform this task, change the properties of the JBoss service by clicking the Log On tab and selecting This account. Supply a valid user name and password and restart the service for this change to take effect.
4. The server that hosts LiveCycle needs to have permissions to access the printer; the connection fails if it does not have the necessary permissions.

Diagnosing cache related problems

If you have an older form that is being cached and re-used instead of a newer or changed version of the form, you will see unexpected results after generation. Make the following updates to resolve this problem:

- Ensure that the cache validation settings are set so that the template you are using had been revalidated. If an update is made and the form is re-rendered within a few seconds, it is possible that the revalidation checkpoint time has not yet occurred and the updated form will not be picked up. To avoid this issue, set the validation method to Unconditionally or manually reset the cache.
- Ensure that uniquely generated templates being passed by value have empty UUID strings, so that they are treated as non-cacheable.

If you have a cacheable form but are not seeing the performance benefit of caching, review the following settings:

- Ensure that the LiveCycle Designer 11 settings allow for caching rendered forms.
- Ensure that the render options allow the render cache to operate. In general, flat PDF document renderings cannot be cached, whereas render-at-client forms benefit from the render cache.
- Search within the physical directory structure of the cache to find the cached template and rendered elements of your document to confirm that the form is being physically cached.
- Make a copy of the form and manually removed the form’s UUID. This creates a version of the form that will always bypass the cache. Then compare the performance of the non-cached and cached version of the form to determine what benefit the cache is yielding.
Some output files are lost when a clustered WebSphere Application Server shuts down

Some expected output files may be lost when one WebSphere Application Server of a cluster shuts down. One possible cause is that invocation requests from a watched folder cannot, for various reasons related to the shutdown, access files that are placed in the staging folder.

Complete the following procedure to recover the lost files.

To recover files from a staging folder:
1. Ensure that the node is restarted.
2. Log in to Administration Console and click Services > Applications and Services > Endpoint Management.
3. In the Provider list, select WatchedFolder, and then click Filter to display the endpoints for the watched folder.
4. Select the check box for the service name endpoint, and then click Disable. The watched folder is now disabled from processing new files.
5. Wait for LiveCycle to recover and process any files it can access. The waiting time depends on the time that is required to process the operation being called and the number of files being recovered.
6. Check the date-time stamp of the files that remain in the staging directory to identify which files are old enough to be files that were lost due to the shutdown.
7. Copy the lost files to the input directory.
8. Re-enable the watched folder to process new input files by repeating steps 2 to 4 and selecting Enable.

Password encryption error

When Federal Information Processing Standards (FIPS) mode is enabled in LiveCycle (set either during the LiveCycle configuration process or manually in the Core Systems Settings web pages within Administration Console), password encryption will not be applied to any document. If you attempt to encrypt the password on a FIPS-enabled document, the error "Password encryption is not permitted in FIPS mode" is displayed.

PDF output contains an unwanted orange watermark

A PDF file generated from a Microsoft Word document may have an unwanted orange (not gray) watermark “LiveCycle Generator Evaluation”. (A gray watermark results from other LiveCycle settings.) This error is typically caused when the example.ps file becomes corrupted (for example, by multiple installations of LiveCycle on the same server). To correct this problem, delete the C:\Documents and Settings\[user]\Application Data\Adobe\Adobe PDF\Distiller\Startup\example.ps file from the application server that LiveCycle runs on and then restart the server. In a clustered environment, delete the file from all servers where it occurs and then restart each server that you deleted the file from.

Browser cache may interfere with HTML rendition

If you are rendering to HTML an XDP form that contains references to images (either through links or embedded images) or contains data with links or image data, you should disable browser caching to avoid having cached data interfere with image display.
“Failure to create directory” error on Windows

On a Windows environment, you may encounter an error when converting PRN files to PDF format from a watched folder endpoint. This error is dependent on the Output parameter that is set in Administration Console.

When a watched folder endpoint’s Output parameter is set to %E/%F.pdf, an output directory named with the originating file name extension is created to receive the converted files (%E = file name extension, %F = file name). For example, when the file example.prn is converted to PDF, a new directory is created (if it does not already exist) and the file is stored there. The result would be //prn/example.pdf.

On a Windows operating system, prn is reserved for system directories only and an attempt to create it generates the “Failure to create directory” error.

To avoid this error, set the value of the Output parameter for the PRN file to PDF endpoint to %E_/%F or %E_Files.%F. (See LiveCycle Administration Help.)

“Error while converting image to PDF” on Windows

On a Windows environment, you may encounter any one of a set of related errors when you convert an image file to PDF. To address this error, configure the Generate PDF service to use Adobe® Acrobat® Professional image conversion.

To configure Acrobat image conversion:
1. In Administration Console, navigate to Services > Applications and Services > Service Management and click GeneratePDFService: 1.1.
2. On the Configuration tab, in the Use Acrobat Image Conversion (Windows Only) box, type true, and then click Save.

Conversion of OpenOffice.org files to PDF fails on Solaris

Conversion of OpenOffice.org files to PDF may fail with a timeout error if a long temp directory name is specified on Solaris. The temp directory name should be 20 characters long at the maximum.

Do the following to resolve this issue:
1. Navigate to Settings > Core System > Core Configurations in the Administration Console.
2. Enter a shorter directory name in the Location of temp directory field. For example, /tmp or /usr/temp.
3. Click OK.

“Content URL 404 error” using template in Contentspace

When using the doc_info.php template in Contentspace, you may encounter an error message indicating a Content URL error. To address this error, replace the contents in the doc_info.php template.

To replace the contents:
1. Log in to Contentspace as administrator and click Company Home > Data Dictionary.
2. In the right pane, click Presentation Templates and then click the doc_info.php content item.
3. Replace the contents of the doc_info.php file with the following text:
<?php

$document = $_ALF_MODEL['document'];

if ($document != null)
{

<h4>Current Document Info:</h4>
<b>Name:</b> <?php echo($document->cm_name); ?><br>
<b>Ref:</b> <?php echo($document->__toString()); ?><br>
<b>Type:</b> <?php echo($document->type); ?><br>
<b>DBID:</b> <?php echo($document->sys_node_dbid); ?><br>
<b>Content:</b> <a href="<?php $pos1 = strpos ($document->url , 'ticket');echo (substr ($document->url, 0, $pos1 -1 ));?>"><?php $pos1 = strpos ($document->url , 'ticket');echo (substr ($document->url, 0, $pos1 -1 )); ?></a><br>

<?php
if ($document->hasAspect("cm_countable") == true)
{

<h4>Counter:</h4>
<b>Counter:</b> <?php echo($document->cm_counter); ?><br>

<?php
}

<h4>Aspects:</h4>
<table>
<?php
foreach ($document->aspects as $aspect)
{
<tr><td><?php echo($aspect); ?></td></tr>
<?php
}

</table>

<h4>Properties:</h4>
<table>
<?php
foreach ($document->properties as $name=>$value)
{
  echo("<tr><td>".$name." = ".$value."</td></tr>");
}

</table>

<?php
}
else
{
  echo "No document found!";
}

<>
❖ Save the file.
Bell Gothic font deprecated in LiveCycle and Designer
The LiveCycle server and Adobe LiveCycle Designer 11 installations no longer include the Bell Gothic font. If you are upgrading and have forms that use this font, either substitute it with one available on your system, or purchase it from the Adobe Store.

How a form using Bell Gothic is affected during runtime:
**LiveCycle server:** If this font is missing from the LiveCycle server, PDF Generator will automatically substitute the font in the generated PDF output file.

**Designer:** When opening the form in Designer, the Missing Fonts dialog appears and prompts the user to substitute the missing font.

"Cannot retrieve the resource from Repository Path" error
After upgrading from LiveCycle 9.x or 8.2.1.x, exceptions such as the following warning appear in the server logs while retrieving images from the LiveCycle repository. Inspite of the exception, the PDF file generates as expected.

```
00000041 FormServerExc W com.adobe.livecycle.forms.service.logging.FormsLogger logMessage
ALC-OUT-002-058: Cannot retrieve the resource from Repository Path. Authority component retrieved is "<somestring>". Path component retrieved is "/somefolder/someimage.jpg".Underlying Exception is : ALC-REP-018-000: Resource [/somefolder/someimage.jpg] does not exist or you do not have sufficient rights to access it.
```

This exception occurs due to the use of incorrect syntax in the URL to the image repository where resources are cached. If "repository://" is used instead of "repository:///", the resource is not cached. Because resources were not cached in LiveCycle 9.x or 8.2.1.x, the exceptions were not seen on that system.

To resolve this issue, modify any instances of repository:// to repository:/// in forms migrated from LiveCycle 9.x or 8.2.1.x.

Middle-Eastern and Indic characters do not appear in PDF documents
When you convert a file that contains characters of Middle-Eastern or Indic languages to a PDF document, the characters of Middle-Eastern and Indic languages does not appear in the output document.

To convert the documents that contain characters of Middle-Eastern or Indic languages to a PDF document, use Adobe Acrobat WebCapture. For detailed information about Acrobat WebCapture (Windows Only), see Generate PDF service settings in the Administrator's Guide.

Miscellaneous errors

adobe-livecycle-websphere.ear fails to deploy
If you are deploying LiveCycle components to WebSphere on a localized instance of the Windows operating system, the Configuration Manager deployment process reaches approximately 7% completion and then adobe-livecycle-websphere.ear fails to deploy.

Follow these steps to avoid this problem:

1. Use Configuration Manager to configure the LiveCycle EAR files, but do not deploy them.
Without exiting Configuration Manager, open the WebSphere Administrative Console and remove the following JVM argument from the server configuration:

\[-Dfile.encoding=utf8\]

1. Restart WebSphere.
2. In Configuration Manager, deploy the `adobe-livecycle-websphere.ear` file.
3. When complete, return to the WebSphere Administrative Console.
4. Add the `-Dfile.encoding=utf8` JVM argument back.
5. Restart WebSphere.
6. Return to Configuration Manager and deploy the remaining EAR files.

**Start/Stop script prompts for inputs even if the inputs are defined in the script.**

The console output will display default value in bind address and port value fields. If you have defined values in the script, the values defined in the script would be considered instead of values displayed on the console output.

On Windows, you may provide TCP locator bind address and port values by following methods:

- You may define values of TCP locator bind address and port parameters in the script. To define parameters in the script:
  1. Open the script to edit.
  2. Set value for bind address.
     
     ```
     set bindaddr=<computername or ipaddress>
     ```
  3. Set value for Port Value.
     
     ```
     set port=<port number>
     ```

- You may choose to provide values for the bind address and port fields as console input. The default value for bind address is `%computername%` and default value for port is `22345`.

**Application model features are unavailable**

If you select an ECM repository as the working repository on the **ECM Connectors Configuration Settings** screen in the Administration Console, LiveCycle-specific application model features become unavailable. For example, you may not be able to create, execute, or delete LiveCycle applications.

However, you will be able to work with LiveCycle processes as before.

**Level setting for HTML to PDF is lost**

The level setting on the **Home > Services > PDF Generator > File Type Settings > New > HTML to PDF** screen in the Administration Console is lost. For example, change the level setting from **Get only 1 level** to **Get only 2 levels**. Now, click some other option (for example, **PDF optimizer**) and then expand **HTML to PDF** again. The value for the setting changes to **Get only 1 level** from what you set.

To resolve this issue, set the value for this setting again to **Get only 2 levels** (or any other desired value) immediately before clicking **Save**.

Note that if you expand the **HTML to PDF** section again, you will still see **Get only 1 level** selected instead of **Get only 2 levels**. Do not worry about this user interface discrepancy since LiveCycle has correctly stored your selected value.
If you want to confirm that your selected value has indeed been stored, do the following tasks:

1. In Administration Console, click Home > Services > PDF Generator > Configuration Files > Export Configuration File to export the configuration file.
2. In the exported configuration file, verify that the value of the `<levels>` tag under `<html2pdfSettings>` is correct.

**English error messages instead of localized strings on some screens**

Administration Console displays English error messages instead of the localized strings on some screens. To resolve this issue, change the JVM locale to have server-side components generate localized error messages. For example, add the following JVM argument to set the JVM locale to French:

```
-Duser.language=fr -Duser.region=FR
```


**Exception in server log when removing applications**

From Workbench, when you remove an application which has a datatype which is referenced in a process, an exception is recorded in the server log. However, the required application is undeployed and removed successfully. You can ignore this error.

**WebSphere stops responding when many concurrent threads are running**

When the `storeContent` operation for Content Services (deprecated) is invoked with more than 30 threads, the WebSphere Application Server may stop responding.

Follow these steps to resolve the issue:

1. In WebSphere Administrative Console, click Servers > Server Types > WebSphere application servers and then click a server name.
2. In the right pane, click Thread pools under Additional Properties.
3. Click WebContainer and, on the Configuration page, increase the value of the Maximum Size field by double the number of threads that you need to run. For example, increase the value of the Maximum Size field by 80 if you want to run 40 threads.
4. Click Apply or OK.
5. Click Save directly to the master configuration.
6. Restart the WebSphere Application Server.

**Repeated messages in the WebSphere logs for objects created using Asset Manager**

This issue is relevant for the Correspondence Management solution.

For objects created using the Asset Manager building block, you may observe that the following message appears repeatedly in the WebSphere logs:
ADMLuceneInde I org.alfresco.repo.search.impl.lucene.ADMLuceneIndexerImpl indexProperty Not indexed: Content Missing

node: workspace://SpacesStore/aeb5e45f-971f-4f31-8f2b-5ed4f2a15070 at
/{http://www.alfresco.org/model/application/1.0}company_home/{http://www.alfresco.org/model/content/1.0}DataStore/{http://www.alfresco.org/model/content/1.0}ObjectWithExtendedPropertiesMap/{http://www.alfresco.org/model/content/1.0}ObjectWithExtendedPropertiesMap-1282274200933

Follow these steps to prevent this message from appearing:

1. In WebSphere Administrative Console, click Servers > Websphere application servers and click the server name.
2. On the Configuration tab, under Troubleshooting, click Change log level details.
3. Click the Runtime tab and then expand the All Components list.
4. Navigate to the org.alfresco.repo.search.impl.* category.
5. Click the org.alfresco.repo.search.impl.lucene.* category and select Message and Trace Levels > warning.
6. Click Apply or OK and then click Save directly to the master configuration.

See also
“Getting help” on page 3
“Additional information” on page 2

FileNet connector services fail to start
If you are using a version of the IBM FileNet content engine that is not exactly 4.0 but in between 4.0 and 4.5 (e.g. 4.0.3), you may see the following error message:

```
java.lang.Exception: Content Engine/Connection URL specified is invalid - cemp:http://<server>:<port>/wsi/FNCEWS40DIMW?jaasConfigurationName=FileNetP8WSI.
```

Edit the properties file as follows:

1. Open the file, adobe-component-ext.properties in a text editor and delete the entry for builtin_serialization.jar.
2. Restart the server.
3. Start all the services for the IBM FileNet connector, from Administration Console.

The default location for the adobe-component-ext.properties file is:

- For JBoss: /<Jboss install dir>/bin folder
- For WebLogic: /<weblogic install dir>/user_projects/domains/<domain name> folder.
- For WebSphere: /<websphere install dir>/profiles/<profile name> folder.

Problem when restoring LiveCycle to a machine with a different host name
Imported processes from LiveCycle 9.x or earlier may use a Document Form variable and the Submit PDF Form service. For such processes, users are not able to submit a form to complete a task under the following circumstances:

1. The process is started and then a backup of the database and GDS is performed as part of LiveCycle Backup and Restore functionality.
2. LiveCycle is restored on another machine with a different host name. Under the GDS directory, the "backup" folder is renamed to "restore", and the database is restored.
3. The user submits the form in Workspace. When the user submits the form, a Security Warning dialog box displays this message: "This document has accessed more than one site and might be trying to share data among different locations. This could be a privacy concern. Are you sure you want to continue?" When the user clicks Yes, this error message appears: "This page cannot be displayed".

To avoid this problem, use the same host name when restoring LiveCycle from a backup.

**GB18030 characters are displayed as periods when a PDF file is exported to Text format**

When a PDF file is exported to Text format, all 4-byte and some 2-byte GB18030 characters are displayed as periods. To address this issue, set the encoding as follows:

1. Launch Adobe Acrobat
2. Click `Edit > Preferences`
3. Select `Convert From PDF` category
4. Select `Text (Plain)` in the `Converting From PDF` column.
5. Set `Output file encoding` to `UTF-8`.
6. Close Adobe Acrobat.

**Replication agent queue is empty on restart of Author instance server**

Say a server backup / restart operation on the Author instance is performed when a user is publishing assets. After the server is restarted or the backup is complete, the replication agent queue is empty. However, the assets are not published. Also, there is no indication that the assets are not published.

**Resolution**

To address this issue, as a best practice, operations such as server backup / restart of the Author instance should be performed in non-business hours. This is because; you need to ensure that there are no assets in the replication agent queue when these operations are performed.

**Asset export fails on fresh installation of Correspondence Management solution**

If an asset is exported on a fresh installation of the Correspondence Management solution where temp folder is not created on the LiveCycle server, the export fails with the following exception:

`error - ALC-ACM-007-004
error in exporting`

**Resolution**

To address this issue, render any letter in the solution. This causes the temp folder to be created on the LiveCycle server. After this, you can export assets.
Chapter 4: Troubleshooting Error Messages

This section describes the problems and solutions associated with the LiveCycle log file error messages.

General Error Messages

This section describes error messages that are not specific to LiveCycle and how to resolve the underlying problems.

OutOfMemoryError

This type of error is typically caused by one of the following issues:

More Help topics
“Running out of threads” on page 39
“Threads and memory allocation” on page 40
“Running the Document Management service for Content Services (deprecated) on basic hardware” on page 41

Running out of threads

There are many types of threads; however, essentially they fall into two categories: Java threads and native threads. All the threads running within a JVM are Java threads (java.lang.Thread class inside Java). The native code (C++/C) creates native threads that are scheduled and managed by the operating system. Here are the key differences between the two types:

- Java threads are created and managed by LiveCycle code, application server, or the JVM itself.
- Operating system tools (such as perfmon or Task Manager) know only about native threads.

Because the operating system has no visibility into Java threads, when you monitor threads using operating system tools such as perfmon, you are monitoring only native threads. The only way to get details into Java threads is to get a Java thread dump. The process to get a Java thread dump varies depending on your application server and JVM. See the manufacturer’s documentation.

The implementation of the JVM is done in C/C++ code and that JVM code maps Java threads to native threads. This mapping can be either 1:1 (1 Java thread to 1 native thread) or N:1 (multiple Java threads to 1 native thread). The details of how this mapping works are specific to the JVM vendor, but 1:1 mapping is a typical default. This mapping means that each Java thread has a corresponding native thread. The number of Java threads has no limit; however, because 1:1 mapping is typical and the number of native threads is limited, you can run out of Java threads as well. This limit applies per process (JVM being a single process) and varies with each operating system. You can assume that the limit is in the thousands, but less than 10,000. Regardless of this number, having many hundreds of threads is a performance problem because the operating system has to schedule up to that many threads.
Threads and memory allocation

Another common issue for threads pertains to memory allocations. When a new Java thread is allocated, a fixed amount of memory is required for the thread’s stack. This thread stack space is a parameter (-Xss option for Sun™ JVM), and the default is ~512 KB. Therefore, if you have 1000 threads, 500 MB of memory is required just for the thread’s stacks. This memory will compete with all the other memory allocations being done in the JVM, such as what LiveCycle allocates, and will create memory allocation issues.

In practice, when the JVM cannot allocate memory or create threads, it throws an OutOfMemory exception back to the caller. Along with this exception is a stack trace and a reason for throwing the exception. This reason is very important to note; it will give you further clues to what may be wrong.

The following code is an example of a message that displays two errors and their associated reason codes:

"unable to create new native thread: java.lang.OutOfMemoryError: unable to create new native thread java.lang.OutOfMemoryError: Java heap space"

These errors mean that the JVM could not create more threads for one of these reasons:

- The per-process thread limit was reached.
- The thread stack cannot be allocated.

To determine the exact cause, you must get a thread dump (also known as Java jump). A thread dump is typically called javacore.xxxx.txt and resides under an application server’s log directories. A lot of information is inside the thread dump, but you can quickly determine the number of threads by counting the occurrences of the TID: token on the list. A typical entry looks like this:

"Thread-1227" (TID:0x106948F0, sys_thread_t:0x78996DA0, state:R, native ID:0x191C) prio=5
4XESTACKTRACE at java.net.SocketInputStream.socketRead0(Native Method)
Troubleshooting Error Messages

Locate the attribute element that has the name attribute with the value TransactionTimeout:

```xml
<attribute name="TransactionTimeout">300</attribute>
```

1. Modify the text in the attribute element to be a larger number, as required.
2. Save jboss.service.xml.

**Configure the WebLogic transaction timeout**

1. Log in to the WebLogic Server Administration Console and, under Domain Structure, click Environment > Servers.
2. In the right pane, click your server, and then click the Server Start tab.
3. Click Lock & Edit.
4. In the left pane, click [domain name] and, in the right pane, click the JTA tab.
5. In the Timeout Seconds box, type 300 (or higher).
6. Click Save and then click Activate Changes.

**Configure the WebSphere transaction timeout**

1. In the WebSphere Administrative Console navigation tree, click Servers > Application servers > [server name].
2. Under Container Settings, click Container Services > Transaction Service.
3. Under General Properties, in the Total transaction lifetime timeout box, type 300 (or higher).
4. Under General Properties, ensure that the value for Maximum transaction timeout is greater than or equal to the value you specified for the Total transaction lifetime timeout property.
5. Click OK.

**Running the Document Management service for Content Services (deprecated) on basic hardware**

*Note: Adobe is migrating Adobe® LiveCycle® Content Services ES customers to the Content Repository built on the modern, modular CRX architecture, acquired during the Adobe acquisition of Day Software. The Content Repository is provided with LiveCycle Foundation and is available as of the LiveCycle ES4 release.*

Content Services (deprecated) features various in-memory caches that significantly improve performance, but consume considerable Java heap memory. You may encounter OutOfMemory exceptions if you run the Document Management service on hardware that only meets the minimum hardware requirements.

You can control memory usage by setting the JVM arguments:
-Dhibernate.cache.use_second_level_cache=false and -Dhibernate.cache.use_query_cache=false.

**Control Content Services memory usage on JBoss Application Server**

1. Open the following file in a text editor:
   - (Windows) [appserver root]/bin/run.bat or [appserver root]/bin/run.conf.bat as per your JBoss installation.
   - (UNIX) [appserver root]/bin/run.sh or [appserver root]/bin/run.conf as per your JBoss installation.
2. In the JAVA_OPTS line, add or change the following arguments:
   - -Dhibernate.cache.use_second_level_cache=false
   - -Dhibernate.cache.use_query_cache=false
3. Save the edited file.
Control Content Services memory usage on WebLogic Server
1 In the WebLogic Server Administration Console, under Domain Structure, click Environment > Servers and, in the right pane, click the name of the LiveCycle server.

2 Click the Configuration tab > Server Start.

3 Under Change Center, click Lock & Edit.

4 In the Arguments box, add or change the following JVM arguments:
   • -Dhibernate.cache.use_second_level_cache=false
   • -Dhibernate.cache.use_query_cache=false

5 Click Save and then click Activate Changes.

Control Content Services memory usage on WebSphere Application Server
1 Log in to the WebSphere Administrative Console and, in the navigation tree, click Servers > Application servers and then, in the right pane, click the server name.


3 Under Additional Properties, click Java Virtual Machine and, in the Generic JVM arguments box, add or change the following JVM arguments:
   • -Dhibernate.cache.use_second_level_cache=false
   • -Dhibernate.cache.use_query_cache=false

4 Click Apply and then click Save directly to the master configuration.

404 File not found
If you see the 404 File not found error, perform these checks:
• Confirm the problem in the browser’s access log.
• Confirm that the EAR file deployed properly and that the application initialized.
• If the URL is intended for the HTTP server, check that the file exists. Look in the error_log or error.log file for the full file name that the web server is looking for.
• (JBoss) Because it is case sensitive, ensure that the URL uses the correct case.
• (JBoss) Ensure that the web application context root (first part of the URL) exists in the uriworkermap.properties file of the JK plug-in configuration.
• (JBoss) If it is a JSP, ensure that the file exists in the EAR file. This option is confirmed by the absence of an entry in the HTTP server’s error log file.

Class not found
If you see the Class not found error, check whether any of these problems exist:
• The class path setting is invalid or missing.
• The JAR file is obsolete.
• A compilation problem exists in the class.
JNDI name not found

If the symptom is an exception stack trace showing `javax.naming.NameNotFoundException: jdbc/<badName>`, check that the expected name is spelled correctly. If it is not, you must fix the code.

Correct most common JNDI exceptions

1. Check the JNDI tree on the LiveCycle application server. Does the name used appear in the tree?
   - If yes, it is most likely that your code did not properly set up the InitialContext object being used for the look-up, and the look-up is being done on a JNDI tree that is not the one that the resource is listed in. For the property values to use, see the Installing and Deploying LiveCycle document for your application server.
   - If no, continue to step 2.

2. Does the resource appear in the JNDI tree under a name other than that listed in the look-up?
   - If yes, you are using the incorrect look-up name. Provide the correct name.
   - If no, continue to step 3.

3. Review the application server logs during startup. If the application server was configured to make this resource available but something is going wrong, an exception appears here. Is there an exception?
   - If yes, review the exception and stack trace. If the NameNotFoundException is a symptom of another problem based on your investigation of the server logs, go to the troubleshooting steps for that problem.
   - If no, continue to step 4.

4. If the resource is not listed in the JNDI tree, and no exception appears at startup to explain why it is not available, the most probable issue is that the application server was not configured properly to make that resource available. Review the application server configuration. Was it configured to make this resource available?
   - If no, see the Installing and Deploying LiveCycle guide for your application server.
   - If yes, this problem is not one of the common ones that cause this issue. Contact Adobe Enterprise Support.

JBoss Application Server error messages

org.jboss.logging.appender.FileAppender object issue

(Known issue) If ECM Connector for EMC Documentum is included in your LiveCycle for JBoss installation, the following error message appears in the server logs every time you restart the server:

An org.jboss.logging.appender.FileAppender object is not assignable to an org.apache.log4j.Appender variable

IBM FileNet messages appear in JBoss Application Server log file

To stop unnecessary ERROR and WARNING log messages, generated by IBM FileNet, from appearing in the JBoss Application Server log file, make the following modification to the log4j.xml file located at [jboss_root]/server/all/conf.

1. Locate the log4j.xml file and open it in an editor.
2. Add the following text to the [Category] section:

   <category name="com.filenet"/>
   <priority value="FATAL"/>

1. Save and close the file.
2  Restart the application server.

**WebLogic Server error messages**

**WebLogic JTA time-out error**
You have a WebLogic time-out issue if you receive the following error message:

```
```

To resolve this issue, increase the WebLogic JTA time-out value to a value greater than 300 seconds. (See “Configuring the WebLogic transaction time-out” in the Preparing to Install LiveCycle document.

**Failure to deploy adobe-livecycle-weblogic.ear**
You have a WebLogic EAR file deployment issue if you receive the following error message:

```
Could not start application adobe-livecycle-weblogic. com.adobe.livecycle.cdv.CDVException[ALC-LCM-030-113]: Failed to deploy EAR.
```

To resolve this issue, check the WebLogic Server Administration Console to ensure that it is not locked, which is indicated by the Lock & Edit button being selected. If it is locked, Configuration Manager shows the deployment process as 16% complete and the WebLogic Server Administration Console shows the EAR file as deployed but in an installed state. If the WebLogic Server Administration Console is not locked, Configuration Manager can deploy the EAR files.

To resolve this issue, go to the WebLogic Server Administration Console, ensure that it is unlocked, and redeploy the EAR files.

**Failure to deploy due to PermGen Space error**
You have a WebLogic EAR file deployment issue (Solaris) if you receive the following error message:

```
java.lang.OutOfMemoryError: PermGen space
```

To resolve this issue, increase the MaxPermSize from 256 to 512. You can change this value from the WebLogic Server Administration Console.

**Failure to deploy LiveCycle modules on Windows/WebLogic**
There is a known issue that WebLogic Server running on Windows fails to deploy LiveCycle modules because the server time-out setting of 5 seconds is too short. You must manually configure this setting as follows:

- Go to [appserverdomain] and open startWeblogic.cmd in an editor.
- Add the following parameter:
  
  `-Dweblogic.client.socket.ConnectTimeout = <timeout value>`
WebSphere Application Server error messages

SECJ0305I error message

If your LiveCycle process uses an e-mail endpoint, you might receive an error similar to the following when the e-mail endpoint is invoked.

SECJ0305I: The role-based authorization check failed for naming-authz operation NameServer:bind_java_object. The user UNAUTHENTICATED (unique ID: unauthenticated) was not granted any of the following required roles: CosNamingCreate, CosNamingDelete, CosNamingWrite.

This error occurs due to missing permissions for the CORBA naming service groups in WebSphere.

Perform the following steps to resolve this issue:

1. In the WebSphere administration console, select Environment > Naming > CORBA Naming service groups.
2. Add the following privileges:
   - Cos Naming Write
   - Cos Naming Delete
   - Cos Naming Create
3. Restart the WebSphere application server.

Multiple entries of org.hibernate.StaleObjectStateException in error logs

In case of a WebSphere cluster deployment, you might see multiple entries of error logs similar to the following:

org.hibernate.event.def.AbstractFlushingEventListener performExecutions Could not synchronize database state with session
org.hibernate.StaleObjectStateException: Row was updated or deleted by another transaction (or unsaved-value mapping was incorrect): [org.alfresco.repo.domain.hibernate.NodeImpl#10]
at org.hibernate.persister.entity.AbstractEntityPersister.check(AbstractEntityPersister.java:1769)
at org.hibernate.persister.entity.AbstractEntityPersister.updateOrInsert(AbstractEntityPersister.java:2312)

These logs do not affect the functionality. However, to suppress these logs, you need to change the logging levels using the WebSphere Administration Console. To change the logging levels:

1. Log on to the WebSphere Administrative Console.
2. Click Troubleshooting > Logs and Trace.
3. In the right pane, click the name of the application server.
4. Click Change Log Detail Levels.
5. In the Configuration tab, expand All Components > org.hibernate.event.* > org.hibernate.event.def.*.
7. In the pop-up menu, click Message and Trace Levels > Fatal.
8. Click OK and then click Save directly to the master configuration.
Failure to deploy adobe-livecycle-websphere.ear file
This section explains how to correct a failed deployment if you receive the following error message when attempting to deploy the adobe-livecycle-websphere.ear file:

```
```

To correct a WebSphere failed deployment:
1. Run the `limit -n` command in the command window.
2. If a value of 1024 is returned, increase the value to 2048 in the wasadmin.sh script.
3. Open the `appservlet root`/bin/wsadmin.sh script in a text editor. After the file's comment block header, add the `ulimit -n 2048` line:
4. Restart WebSphere and deploy the adobe-livecycle-websphere.ear file by using Configuration Manager.

J2CA0294W warning messages
To avoid receiving warning messages in the SystemOut.log file that are related to the deprecated usage of direct JNDI lookup, you can modify the WebSphere logging level.

To suppress the warning message J2CA0294W from the SystemOut.log, you can change the logging level to `*=info:com.ibm.ejs.j2c.ConnectionFactoryBuilderImpl=severe`.

Change the logging levels
1. Log in to WebSphere Administrative Console through the URL `http://[hostname]:9060/admin` and, in the navigation tree, click Troubleshooting > Logs and Trace.
2. In the right pane, click the name of the application server and then click Change Log Detail Levels.
3. Click the Configuration tab and type the following string:
   `*=info:com.ibm.ejs.j2c.ConnectionFactoryBuilderImpl=severe`
   ❖ Click OK and then click Save directly to the master configuration.

Verbose log messages in WebSphere installation
To avoid the WebSphere installation from logging several unnecessary log messages, you can increase the logging level to “Warning” so that messages at lower level are not logged.

1. Log in to WebSphere Administrative Console through the URL `http://[hostname]:9060/admin` and
2. In the navigation tree, click Troubleshooting and select Logs and Trace.
3. In the right pane, click the name of the application server and then click Change Log Detail Levels.
4. Select Runtime and enter `org.apache.xml.security.*`
5. Click Message And Trace Levels, and select Warning.
6. Select Save runtime changes to configuration check box.
7. Click OK.

Exception: No trusted certificate found
Your WebSphere Application Server may give exceptions similar to the ones described below.
Exceptions seen from Administration Console:

Could not connect to Inbox. Error message: com.ibm.jsse2.util.h:
   No trusted certificate found; nested exception is:
      javax.net.ssl.SSLHandshakeException:
         com.ibm.jsse2.util.h: No trusted certificate found

Exceptions seen in WebSphere Application Server log files:

CWPKI0022E: SSL HANDSHAKE FAILURE: A signer with SubjectDN
"CN=imap.gmail.com, O=Google Inc, L=Mountain View, ST=California, C=US"
was sent from target host:port "null:port". The signer may need to be
added to local trust store "D:/servers/websphere6.1/profiles/AppSrv01/config/cells/MN-TOBIKONode01Cell/nodes/MN-TOBIKONode01/trust.p12"
located in SSL configuration alias "NodeDefaultSSLSettings" loaded from
SSL configuration file "security.xml". The extended error message from
the SSL handshake exception is: "No trusted certificate found".

CNTR0020E: EJB threw an unexpected (non-declared) exception during
invocation of method "doSupports" on bean "BeanId(adobe-core-websphere
#adobe-dscf.jar#EjbTransactionCNTAdapter, null)". Exception data:
java.lang.RuntimeException: Could not connect to Inbox. Error message:
   com.ibm.jsse2.util.h: No trusted certificate found;
   nested exception is:
      javax.net.ssl.SSLHandshakeException:
         com.ibm.jsse2.util.h: No trusted certificate found

This problem arises when the WebSphere key store does not contain a required certificate. Note that the default
WebSphere key store contains only a limited set of certificates. Use the following procedure to add a new certificate to
the WebSphere key store.

Add a new certificate to the WebSphere key store

1 Obtain the appropriate certificate from the email service.
2 Copy the certificate to \appserver root\profiles\[server name]\etc
3 Log in to the WebSphere Administrative Console and click Security > SSL certificate and key management.
4 Under Related Items, click Key stores and certificates, and then click CellDefaultTrustStore.
5 Under Additional Properties, click Signer certificates, and then click Add.
6 In the Alias box, type an appropriate alias for the certificate you are importing.
7 In the File name box, type the location where you installed the certificate at step <HyperText>2, and then click OK.
8 Click Save directly to the master configuration. The certificate you just added should now be listed as a Signer
certificate.
9 Restart the WebSphere Application Server.

Java NameNotFoundException exception

While bootstrapping User Manager components on WebSphere Application Server, the following exception message
will appear only once after the application is started:
Troubleshooting Error Messages

00000043 javaURLContext E NMSV0310E: A JNDI operation on a "java:" name cannot be completed because the server runtime is not able to associate the operation’s thread with any J2EE application component. This condition can occur when the JNDI client using the "java:" name is not executed on the thread of a server application request. Make sure that a J2EE application does not execute JNDI operations on "java:" names within static code blocks or in threads created by that J2EE application. Such code does not necessarily run on the thread of a server application request and therefore is not supported by JNDI operations on "java:" names.

Exception stack trace:
javax.naming.ConfigurationException [Root exception is javax.naming.NameNotFoundException: Name comp/env.ejb not found in context "java:".]

This error can be safely ignored.

Unexpected exception during DSC invocation

When a DSC is invoked from within a transaction started by another application deployed as an EAR on the same instance of WebSphere on which LiveCycle is deployed, the DSC call fails with the following error message:

LocalException E CNTR0020E: EJB threw an unexpected (non-declared) exception during invocation of method "getObjectType" on bean

This error is encountered for WebSphere only when the adobe-utilities.jar file is used and Platform.UTIL.getTransactionManager() is the user that starts the transaction manager.

To resolve this issue, do not use adobe-utilities.jar to start the transaction manager. Rather, use the following code to create the UserTransaction:

InitialContext initialContext = new InitialContext();
UserTransaction ut = (UserTransaction)initialContext.lookup("java:comp/UserTransaction");
ut.begin();

Database Error Messages

This section describes error messages relating to your LiveCycle database.

javax.resource.ResourceException error

The javax.resource.ResourceException error message is encountered when the load on your JBoss application server is high. To avoid this issue, increase the number of database connection as follows:

1. Open the [appserver root]\server\<profile>\deploy\adobe-ds.xml in a text editor.
2. Increase the value of the max-pool-size property to 75.
3. Restart the JBoss application server.

Exceptions thrown when initializing the database multiple times

When you initialize the LiveCycle database after it is already initialized, exceptions may be thrown indicating that the POF schema was initialized.

This error can be safely ignored.
MySQL “Too many connections” error
Under heavy load conditions, MySQL may generate “Too many connections” errors. This problem can be alleviated by increasing the number of parallel connections allowed by MySQL.

1. Go to the MySQL install directory.
2. Locate the my.ini file and open it in an editor.
3. Locate the max_connections parameter and set it to the required value. The default value is 100.
4. Restart MySQL.

J2CA0081E: Method cleanup error on SQL Server
If you see the error “J2CA0081E: Method cleanup failed while trying to execute method cleanup...”, the stack trace appears as follows:

"00000057 MCWrapper E J2CA0081E: Method cleanup failed while trying to execute method cleanup on ManagedConnection WSRdbManagedConnectionImpl@6d826d82 from resource SP_DS. Caught exception: com.ibm.ws.exception.WsException: DSRA0080E: An exception was received by the Data Store Adapter. See original exception message: This operation is not supported.. with SQL State : null SQL Code : 0"

You must update to SQL Server 2005 JDBC driver version 1.2. Obtain this driver from the Microsoft Download Center.

Database initialization fails on WebLogic
You may receive the following exception while initializing the LiveCycle database on WebLogic Server:


To resolve this problem, modify the IDP_DS-3079-jdbc.xml file.

Modify the IDP_DS-3079-jdbc.xml file
1. Locate the IDP_DS-3079-jdbc.xml file in the [appserverdomain]/config/jdbc directory and open it in an editor.
2. Locate the line <jndi-name></jndi-name> and delete it.
3. Save and close the file, and reinitialize the database.

Memory issues on DB2 server
DB2 configuration page displays the following error message:

SQL1585N A temporary table space with sufficient page size does not exist.
Following is the SQLCODE and SQLSTATE value specific to memory issue on DB2 server.
sqlcode: -1584
sqlstate: 57055
SQL1585N A temporary table space with sufficient page size does not exist.

For information on this error, see this IBM knowledgebase article.

To avoid this issue, do the following:

- Increase the system RAM. See the Preparing to Install LiveCycle ES4 guide for recommendations.
LiveCycle Error Messages

This section describes error messages relating to your LiveCycle installation.

Output error messages

Converting native files fails on JBoss/Windows
PDF Generator running in a Windows operating system may fail when converting native files, such as from Microsoft Word to PDF, giving an exception in the log file similar to this:

```
INFO [PDF Generator] Application server started as user: SYSTEM
```

This problem occurs if you did not use the same user account for Microsoft Office, PDF Generator, Acrobat for PDF Generator, and your application server process.

To correct this problem, change the user for the JBoss for LiveCycle to be the same as the user for Microsoft Office.

Change the user for the JBoss for LiveCycle service
2. Double click the `JBoss for LiveCycle` service, and then select the `Log On` tab.
3. Select `This account`, type the user name and password that runs Microsoft Office, and then click `OK`.

Converting HTML files fails on JBoss/Solaris
PDF Generator running on JBoss in a Solaris operating system may fail when converting HTML files using the HTMLToPDF or HTMLURLToPDF operations, giving an exception in the log file similar to this:

```
at com.adobe.pdfg.GeneratePDFImpl.htmlURLToPdf
```

This problem occurs when your system is missing the libiconv.so.2 library.

To correct this problem, install the libiconv.so.2 library in the `/usr/lib` directory.

XMLForm.exe permission error on UNIX or Linux
A UNIX and Linux permission issue exists with Adobe® LiveCycle® Forms Standard 11 if the following error message is logged:

```
Cannot add execute permission on file /path_to_XMLForm.exe
```

To resolve this issue, ensure that the swap space on UNIX and Linux servers is at least 3 GB.

• Provide at least 2 GB of space to each DB2 instance. If you are installing Content Services (deprecated) for use with a DB2 database, you must have a minimum of 2GB of RAM on the computer that hosts the LiveCycle database.
PDF Generator error messages

**ALC-PDG-060-001-Microsoft Word could not set the "ShowRevisionsAndComments" property.**

When the user submits a protected document for conversion, the following error occurs.

**ALC-PDG-060-001-Microsoft Word could not set the "ShowRevisionsAndComments" property.**

To resolve the issue, you can use any of the following methods:

Before sending document for conversion,

- remove protection of the document.
- Use OpenOffice as a fallback route for conversion
- The PDF Generator supports Microsoft Word documents containing protected fields. To enable PDF Conversion for Microsoft Word document containing protected fields, change the file type settings:

  1. In the **Administration Console**, navigate to **Services > PDF Generator > File Type Settings**, and open your file type settings profile.
  2. Expand the Microsoft Word option and select the **Preserve document markup in Adobe PDF (for Microsoft Office 2003 or later)** option.
  3. Click **Save As**, specify name of the file type setting, and click **OK**.

Unexpected end of file error on WebLogic

You have an issue with Forms and Adobe® LiveCycle® Output 11 if you see the following error message:

```
com.adobe.idp.Document.passivateInitData(Document.java:867)
```

To resolve this issue, ensure that the DocumentMaxInlineSize parameter is set to a value that is smaller than the IIOP message size parameter defined in WebLogic Server.

Microsoft Project time-out errors

LiveCycle fails to convert Microsoft Project files to PDF documents and time-out errors are logged.

The issue occurs due to a dialog box. The dialog box requests a confirmation to open .MPP files that are created with an older version of Microsoft Project.

To resolve the issue, change the Legacy Formats option in the Microsoft Project:

1. Open **Microsoft Project** and click the **File** tab.
2. Click **Options**, click **Trust Center**, and then click **Trust Center Settings**.
3. In the Trust Center screen, click **Legacy Formats**, select **Allow loading files with legacy or non-default file formats** and click **OK**.
Client-side Error Messages

CORBA COMM_FAILURE exception on WebLogic/Solaris

If you encounter a CORBA COMM_FAILURE exception from your client while running WebLogic Server on Solaris, you must pass the following additional property to the client-side JVM:

-Dcom.sun.CORBA.transport.ORBTCPReadTimeouts=1:60000:300:1

The value in bold is a colon-delimited list of the time-out values in milliseconds that should be set according to your system requirements. The values from left to right are as follows:

- Initial wait time if a transport TCP read returns 0 bytes
- Maximum cumulative wait time if a transport TCP read returns 0 bytes
- Maximum cumulative wait time if a transport TCP read of a GIOP header returns 0 bytes
- Backoff percentage used to compute the amount of time to wait on a subsequent transport TCP read of 0 bytes

No settings are required on the server side.

Installation Error Messages

java.lang.OutOfMemoryError: Java heap space

In the Windows environment, LiveCycle Configuration Manager (LCM) encounters an exception "java.lang.OutOfMemoryError: Java heap space" and fails to execute.

Reason

To launch the LCM, Java Virtual Machine (JVM) requires 1536 Mb memory. The Java heap space exception occurs on allocating less than 1536 Mb memory to the JVM.

Resolution

Perform the following steps to resolve the issue:

1. Navigate to [LiveCycle_root]/configurationManager/bin and open the ConfigurationManager.bat file for editing.
2. To increase the memory allocation limit, locate the following text:

   :LAUNCH
   set JAVA_OPTS=-Xms128m -Xmx1024m -Dfile.encoding=utf8 %LCM_USE_STACK%

3. Change the memory allocation limit from -Xmx1024m to -Xmx1536m.
4. Save and close the ConfigurationManager.bat file.
5. Run LiveCycle Configuration Manager.
Miscellaneous Error Messages

LDAP: error code 12 – Unavailable Critical Extension

In LiveCycle, users and groups are synchronized from an LDAP server in batches of 200. When the results returned from an LDAP server is >= 200, an AutoDetectionLogic is automatically enabled, which disables the paging if the LDAP server is Oracle Directory Server Enterprise (previously known as SunOne) edition 5.2 or 6.3.

However, the paging gets enabled for Oracle Directory Server Enterprise if you have a proxy server acting as Active Directory. As a result, the synchronization fails with the LDAP: error code 12 – Unavailable Critical Extension error.

To fix this issue, perform the following steps to turn off AutoDetectionLogic to prevent LiveCycle from sending any paging request:

1. Login to LiveCycle administration console using administrator credentials.
3. Export the config.xml file to the filesystem.
4. Look for the tag entries starting with `<entry key="enablePaging" value= present under nodes named LDAPUserConfig and LDAPGroupConfig for a particular Enterprise or Hybrid domain.
   
   By default, the entry is `<entry key="enablePaging" value="true"/>`.
5. Modify the entry to `<entry key="enablePaging" value="false"/>`.
6. Save the config.xml and import it back into LiveCycle.

   **Note:** There is no need to restart application server for the changes to come into effect.

Locator is already running

If you use TCP for caching, you may encounter the following exception while starting the TCP locator:

```
Exception in thread "main" com.gemstone.gemfire.SystemIsRunningException: Locator "/usr/prod/lbs/domains/lbsdomain/idplib/caching" is already running.
```

```
   at com.gemstone.gemfire.internal.ManagerInfo.setManagerStarting
   (ManagerInfo.java:65)
   at com.gemstone.gemfire.internal.ManagerInfo.setLocatorStarting
   (ManagerInfo.java:61)
   at com.gemstone.gemfire.internal.DistributionLocator.main
   (DistributionLocator.java:87)
   at com.gemstone.gemfire.distributed.Locator.main(Locator.java:359)
```

```
   [info 2009/08/26 16:18:29.770 PDT <Thread-0> nid=0x15d56d5] Locator stopped
```

To resolve this issue, check for the existence of the .locator lock file in the caching folder and delete the file.
com.adobe.idp.DocumentError
If some cluster nodes are unable to access the global document storage (GDS) directory, you may encounter the following error:

- com.adobe.idp.DocumentError: The document pointing to the file "B:\lc9_share\docm1245494450089\c5c0f6c0a124c0d45396deb69b6e11db" has expired. Consider increasing the document disposal timeout

Ensure that:
- All nodes in the cluster are time-synchronized
- All nodes have access to the GDS

If you still encounter this issue, check for network and latency problems.

IDPSchedulerService is not in a RUNNING state
IDPSchedulerService is not restarted although Workbench indicates that it is in the started state. The following exception appears in the server logs:

ALC-DSC-020-000: com.adobe.idp.dsc.InvalidStateException: Service: IDPSchedulerService is not in a RUNNING state

If you need to restart Scheduler from within Workbench, explicitly start IDPSchedulerService to avoid exceptions.

"Failed to delete a directory" warning during PDF conversions
The following warning may appear in the application server logs during conversions to PDF:

WARN [Document] DOCS007: Failed to delete a directory
"C:\DOCUME~1\ADMINI~1\LOCALS~1\Temp\AdobeDocumentStorage\local\removeOn2006Y08M31D18h16m15s.1157028375000" after 60 attempts. The file(s) under this directory may still be locked.

If this message appears consistently in the logs, restart the application server.

Failed to load resource
The following error may appear on submitting a form:

Failed to load resource: the server responded with a status of 500 (Internal Server Error). There was an error while getting data xml.

The above error message appears on submitting Forms that contain images of approximately 2 MB. Use images of smaller size to avoid the error.

PDF Generator fails to convert source files to PDF
Do not use the software applications used for running PDF Generator on the server. Also, do not print any documents from the server. This may lead to failed PDF Generator conversions or stability issues for the software applications. For a list of the software applications that can be used with PDF Generator, see Native file conversion software installation section in the System Requirements topic of Preparing to Install Adobe LiveCycle ES4 (Single Server).
Troubleshooting CQ

Refer to the following resources:

- http://dev.day.com/content/kb/home/cq5/CQ5Troubleshooting.html