

Setting up Oracle FLEXCUBE Installer
Oracle FLEXCUBE Universal Banking
Release 12.0
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1. Setting up Oracle FLEXCUBE Installer

1.1 Introduction

Before installing Oracle FLEXCUBE, you need to set up Oracle FLEXCUBE Installer on the server. This document explains the methods of setting up the installer.

The Oracle FLEXCUBE Installer picks up the source files from the Source Directory and compiles and builds the enterprise archive file. The enterprise archive file is then deployed on the Application Server using the Application Server admin console.

1.2 Terminologies

You may come across the following jargons in this document:

- {INSTALLER_DIR} – This term represents the installer home directory
- {J2EE_SDK_INSTALLATION_DIR} – This term represents the J2EE SDK home directory

1.3 Prerequisites

You will need the following components for setting up the Oracle FLEXCUBE Installer.

1.3.1 Prerequisites for Installer

You need to use the files listed in the following table for running the installer.

Component	License Information	Download Location	Instructions
JDK	JDK is distributed by Sun Microsystems, Inc under the Java Development Kit Binary Code License Agreement.	http://www.oracle.com/technetwork/java/javase/downloads/index-jdk5-jsp-142662.html	You need to download JDK version 1.6.0_24 and set it as the environmental variable.
Apache Ant 1.7.1	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' apache-ant-1.7.1-bin.zip ' from the following URL: http://archive.apache.org/dist/ant/binaries/ For UNIX, you need to download the file ' apache-ant-1.7.1-bin.tar ' from the same URL.	Extract the file 'apache-ant-1.7.1-bin.zip' and provide the location for setting the environmental variables. For UNIX, extract the file 'apache-ant-1.7.1-bin.tar' using the following command: <pre>'tar -xvf apache-ant-1.7.1-bin.tar'</pre> Further, provide the location for setting the environmental variables.
Oracle 11g			For database installation, you need to install the latest version

Component	License Information	Download Location	Instructions
Client			of Oracle 11g Client (11gR1 or 11gR2) in the system.
Swing Layout	Lesser General Public License (LGPL 2.1)	Download the netbeans 7.0 from the following URL: http://netbeans.org/downloads/index.html Refer to the section '1.3.2.3 Installing NetBeans 7.0' in this chapter for details. Netbeans can be uninstalled after copying swing-layout-1.0.4.jar	Copy the ' swing-layout-1.0.4.jar ' from <NETBEANS_INSTALLEDAR EA>\platform\modules\ext which is found in the NetBeans installed location to the following directory: {INSTALLER_DIR}\Library\install <i>Refer to the section 'Installing NetBeans 7.0' in this chapter for details.</i>
Log4J 1.2.15	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' apache-log4j-1.2.15.zip ' from the following URL: http://archive.apache.org/dist/logging/log4j/1.2.15/	Extract 'Log4j 1.2.15' and copy the file ' log4j-1.2.15.jar ' to the following directory: {INSTALLER_DIR}\Library\install
Apache Xerces2-J 2.8.1	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' Xerces-J-bin.2.8.1.zip ' from the following URL: http://archive.apache.org/dist/xml/xerces-j/	Extract 'Xerces2-J' and copy the files ' xercesImpl.jar ' and ' xml-apis.jar ' to the following directory: {INSTALLER_DIR}\Library\common
Apache Commons IO 1.3	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' commons-io-1.3.zip ' from the following URL: http://archive.apache.org/dist/commons/io/binaries/	Extract 'Commons IO 1.3' and copy the file 'commons-io-1.3.jar' into the following directory: {INSTALLER_DIR}\Library\common
Oracle 11g Database Driver (11.2.0.2.0)	License provided by Oracle Corporation	Download the file ' ojdbc6.jar ' from the following URL: http://www.oracle.com/technology/software/tech/java/sqlj_jdbc/htdocs/jdbc_111060.html	Copy the file 'ojdbc6.jar' to the following directory: {INSTALLER_DIR}\Library\common

1.3.1.1 Installing NetBeans 7.0

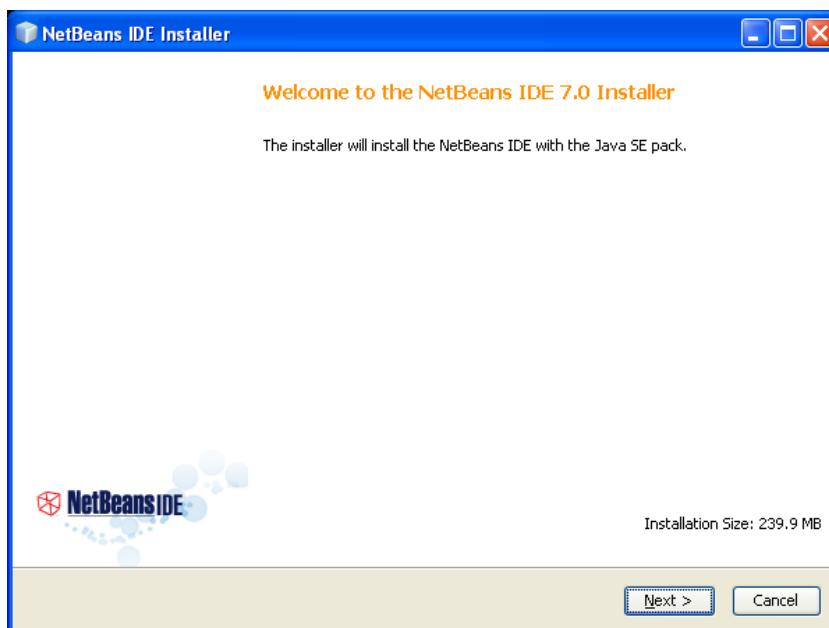
Download and install 'NetBeans 7.0'. This is required for extracting the component 'Swing Layout'.

The license information and download instructions for NetBeans are available in the section 'Prerequisites for Installer' in this chapter.

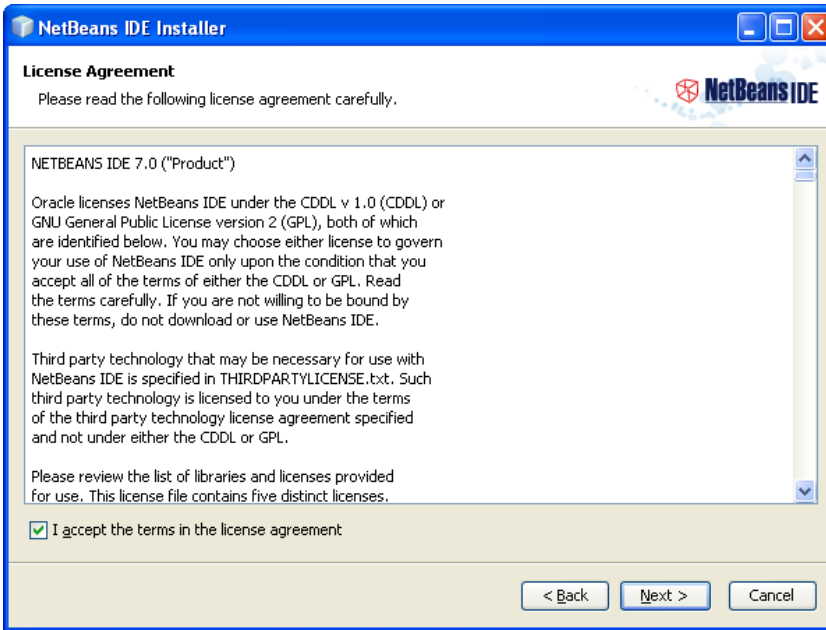
1. Once the download is complete, run 'netbeans-7.0-ml-javase-windows.exe'. You will see the following screen.



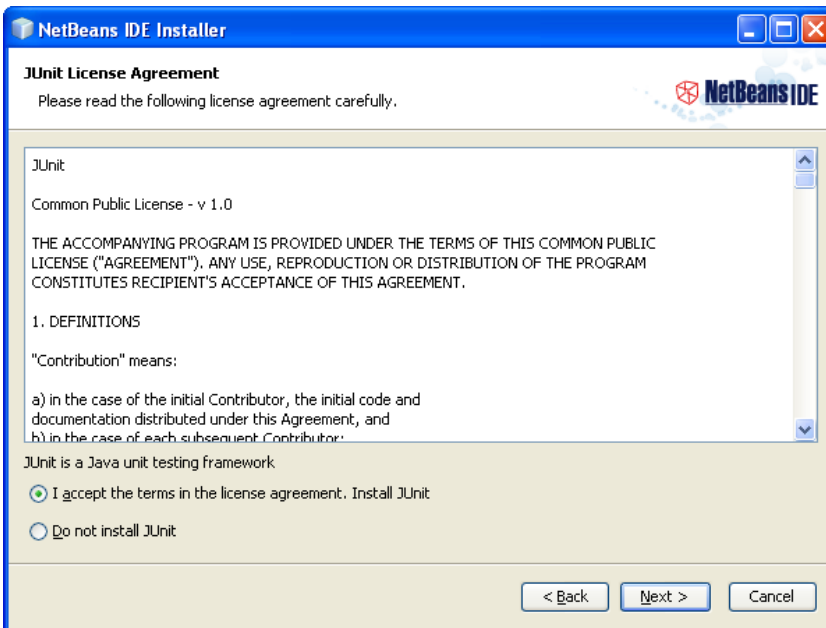
2. Click 'Run'. The 'Welcome' screen is displayed.



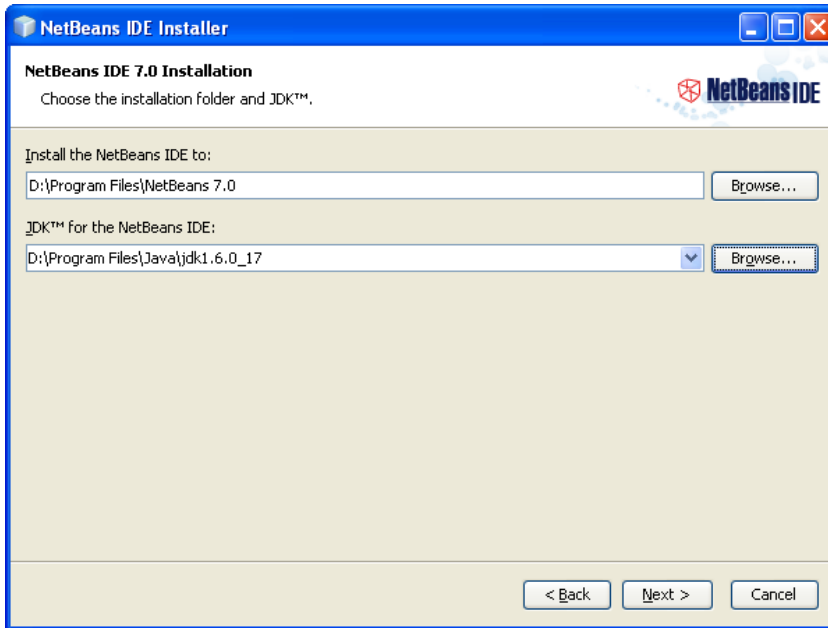
3. Click 'Next'. The following screen is displayed.



4. Go through the licence information. Accept the licence agreement and click 'Next'. The JUnit license agreement is displayed.



1. Read the licence terms. Select 'I accept the terms in the license agreement. Install JUnit' and click 'Next'.



2. Specify the following details:

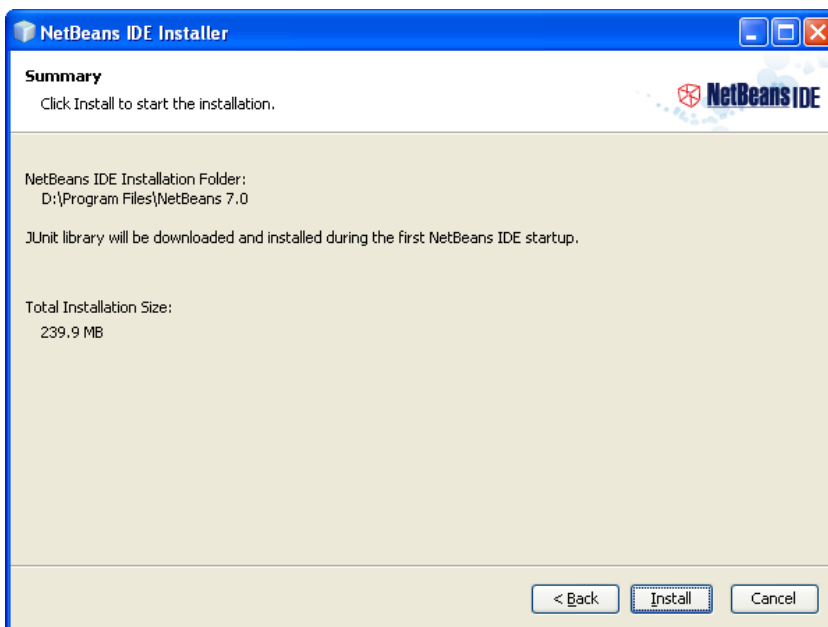
Install the NetBeans IDE to

Specify the folder in which you need to install the NetBeans IDE. You can use the 'Browse' button to choose a directory.

JDK for the NetBeans IDE

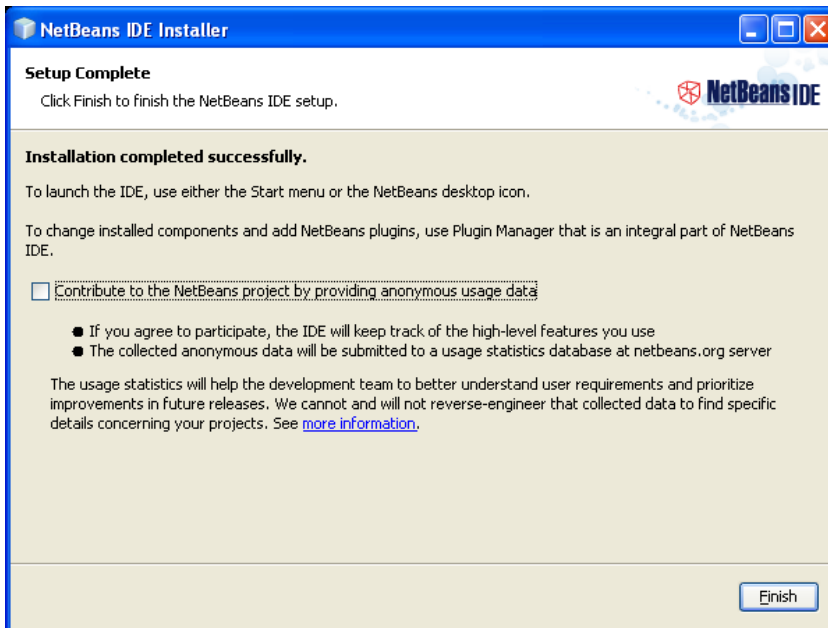
Specify the folder where JDK is installed. You can use the 'Browse' button to choose a directory.

3. Click 'Next' button. The following screen is displayed:



4. Verify the details given in the summary. Click 'Install' to begin the installation.

- Once the installation process is complete, you will see the following screen.



- Click 'Finish'. This complete the NetBeans installation process.
- Now, go to the NetBeans installation directory and copy the file 'swing-layout-1.0.4.jar' to the Oracle FLEXCUBE installation directory.

JAR File Name	Copy from	Copy to
swing-layout-1.0.4.jar	{NETBEANS_INSTALLATION_DIR}\platform\modules\ext	{INSTALLER_DIR}\Library\application

1.3.2 Prerequisites for Oracle FLEXCUBE Host

You need to use the files listed in the following table for the Oracle FLEXCUBE Host.

Component	License Information	Download Location	Instructions
JEE 5 SDK	<p>License information is displayed while downloading and installing JEE 5 SDK.</p> <p>This license agreement is different from the Sun JDK 5.0 or JDK 6.0 license agreements or any third party licenses for the usage of third party components for JEE 5 SDK.</p> <p>The license agreement is for the Sun</p>	<p>Download JEE 5 SDK from the Sun Java EE Download Center at the following URL:</p> <p>http://java.sun.com/javaee/downloads/</p> <p>Oracle FLEXCUBE does not support Java EE 6 SDK. You need to download JEE 5 SDK for Oracle FLEXCUBE Host.</p>	<p>While downloading process a suitable platform for installation of the JEE 5 SDK needs to be chosen – Windows, Solaris and Linux are available. The license agreement for JEE 5 SDK is also made available at this juncture.</p> <p>You need to download JDK version 1.6.0_24 and set it as the environmental variable. Details are available in this document.</p> <p>Install JEE 5 SDK and copy the file 'javaee.jar' to the folder</p>

Component	License Information	Download Location	Instructions
	GlassFish Enterprise Server, which is bundled with the SDK. Oracle FLEXCUBE does not require this application server. During the build process, Oracle FLEXCUBE requires certain JAR files that are available under this license.		{INSTALLER_DIR}\Library\application'. <i>Refer to the section 'Installing JEE 5 SDK' in this chapter for details.</i>
Apache Xerces2-J 2.8.1	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' Xerces-J-bin.2.8.1.zip ' from the following URL: http://archive.apache.org/dist/xml/xerces-j/	Extract 'Xerces2-J'. Copy the file 'resolver.jar' to the following directory: {INSTALLER_DIR}\Library\application Copy the files 'xercesImpl.jar' and 'xml-apis.jar' to the following directory: {INSTALLER_DIR}\Library\com mon
Apache Xalan-J 2.7.0	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' xalan-j_2_7_0-bin.zip ' from the following URL: http://archive.apache.org/dist/xml/xalan-j/	Extract the Xalan 2.7.0 and copy the files 'serializer.jar' and 'xalan.jar' to the following directory: {INSTALLER_DIR}\Library\application
Apache Commons Fileupload 1.2	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' commons-fileupload-1.2-bin.zip ' from the following URL: http://archive.apache.org/dist/commons/fileupload/binaries/	Extract the Commons Fileupload 1.2 and copy the file 'commons-fileupload-1.2.jar' to the following directory: {INSTALLER_DIR}\Library\application

1.3.2.1 Indirect Dependencies

Following are the indirect dependencies:

Component	License Information	Download Location	Instructions
Apache Commons IO 1.3	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' commons-io-1.3.zip ' from the following URL: http://archive.apache.org/dist/commons/io/binaries/	Extract 'Commons IO 1.3' and copy the file 'commons-io-1.3.jar' to the following directory:

Component	License Information	Download Location	Instructions
	licenses/LICENSE-2.0	t/commons/io/binaries/	{INSTALLER_DIR}\Library\com mon
Apache POI FINAL	Apache license version 2.0 is available at the following URL: http://www.apache.org/ licenses/LICENSE-2.0	Download the file ' poi-bin- 3.2-FINAL-20081019.zip ' from the following URL: http://archive.apache.org/dis t/poi/release/bin	Extract 'poi-bin-3.2-FINAL- 20081019.zip' and copy the file 'poi-bin-3.2-FINAL- 20081019.jar' to the following directory: {INSTALLER_DIR}\Library\appl ication

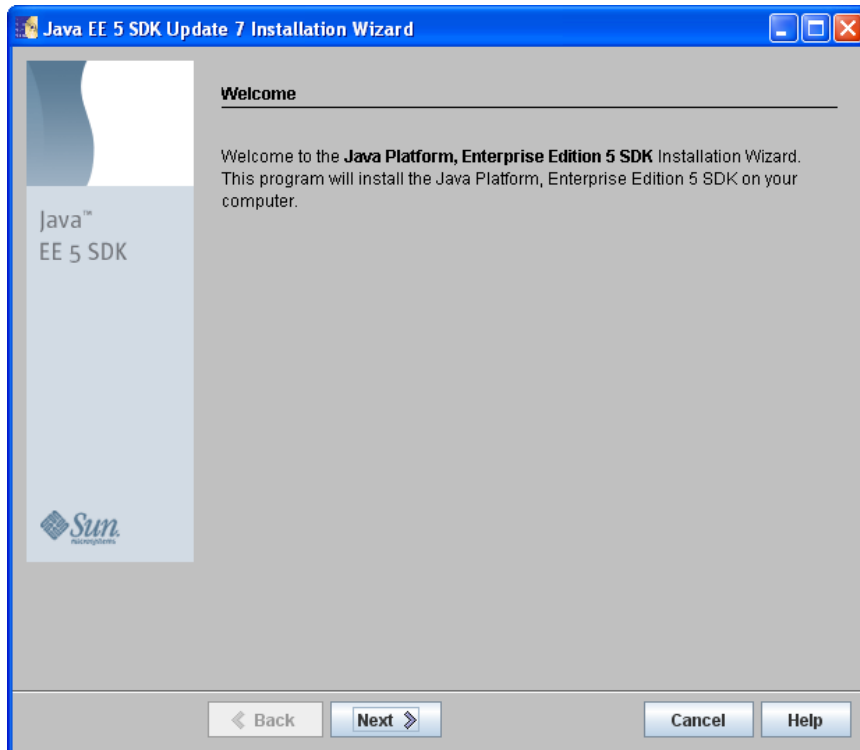
1.3.2.2 Installing JEE 5 SDK

You need to download and install JEE 5 SDK for using Oracle FLEXCUBE Host.

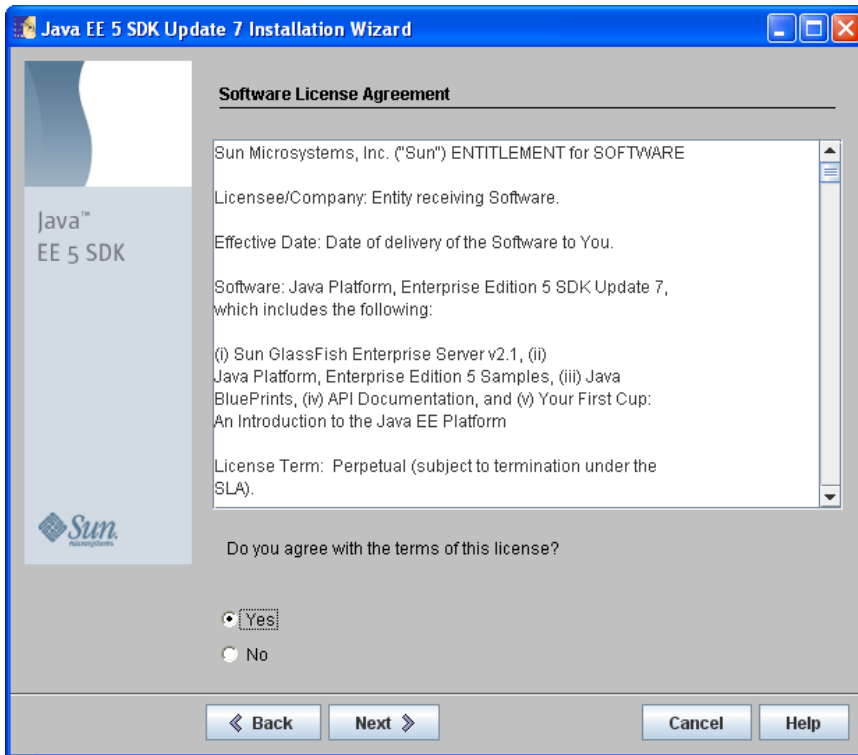
The license information and download instructions for JEE 5 SDK are available in the section 'Prerequisites for Oracle FLEXCUBE Host' in this chapter.

Follow the steps given below:

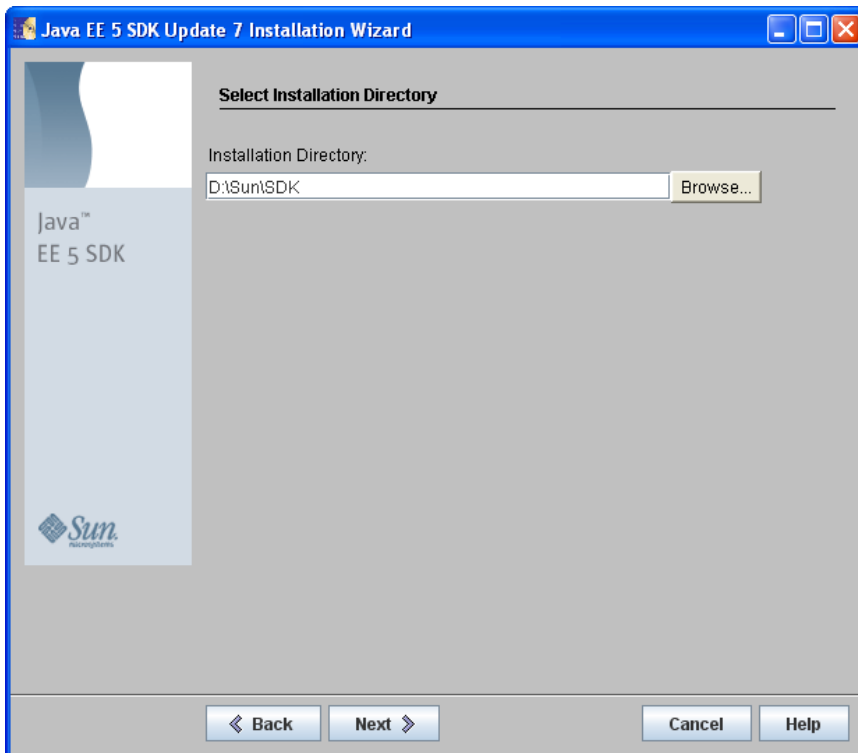
1. Download JEE 5 SDK. The instructions for download are available under section 'Prerequisites for Oracle FLEXCUBE Host'.
2. Launch the JEE 5 SDK executable to start the installation process. The following screen is displayed.



3. Click 'Next' to continue. The following screen is displayed.

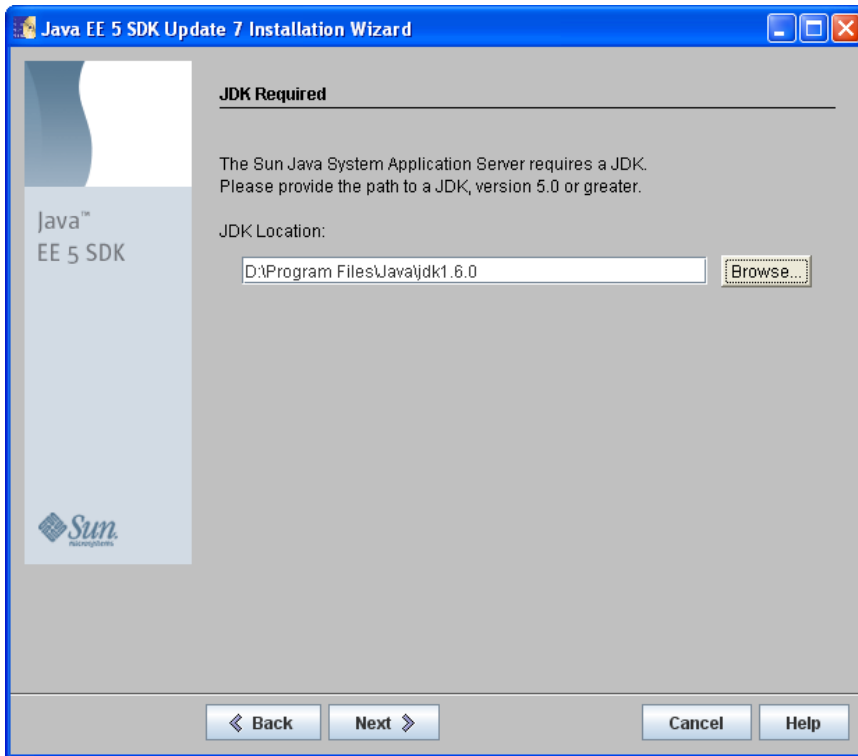


4. Read the Software License Agreement. If you agree to the terms and conditions, choose 'Yes' and click 'Next'. The following screen is displayed.



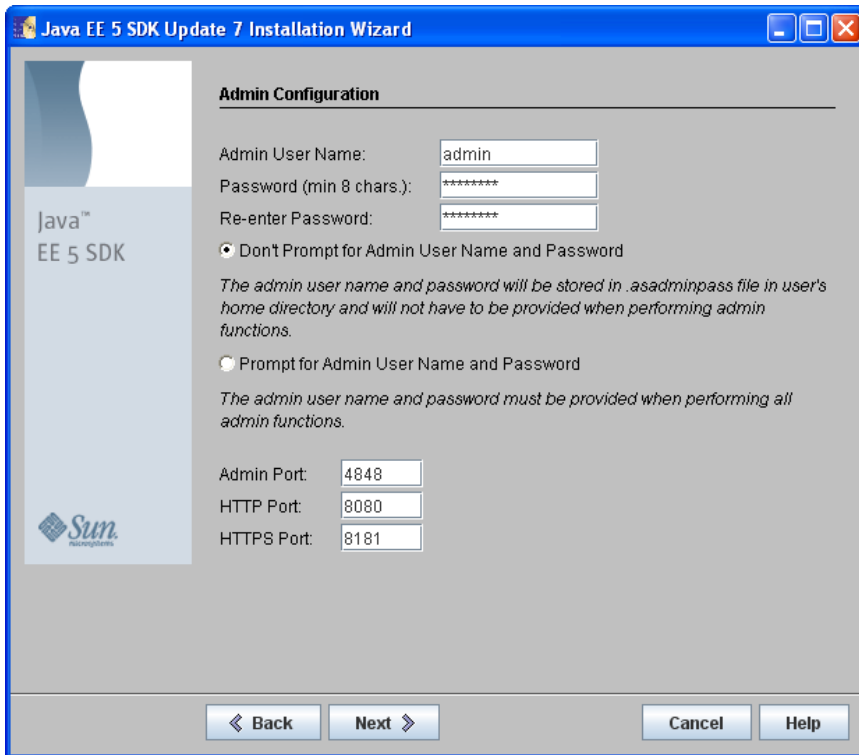
5. Specify the location of the Installation Directory. You can use the 'Browse' button to browse the installation directory. After specifying the installation directory, click 'Next'.

The following screen is displayed.

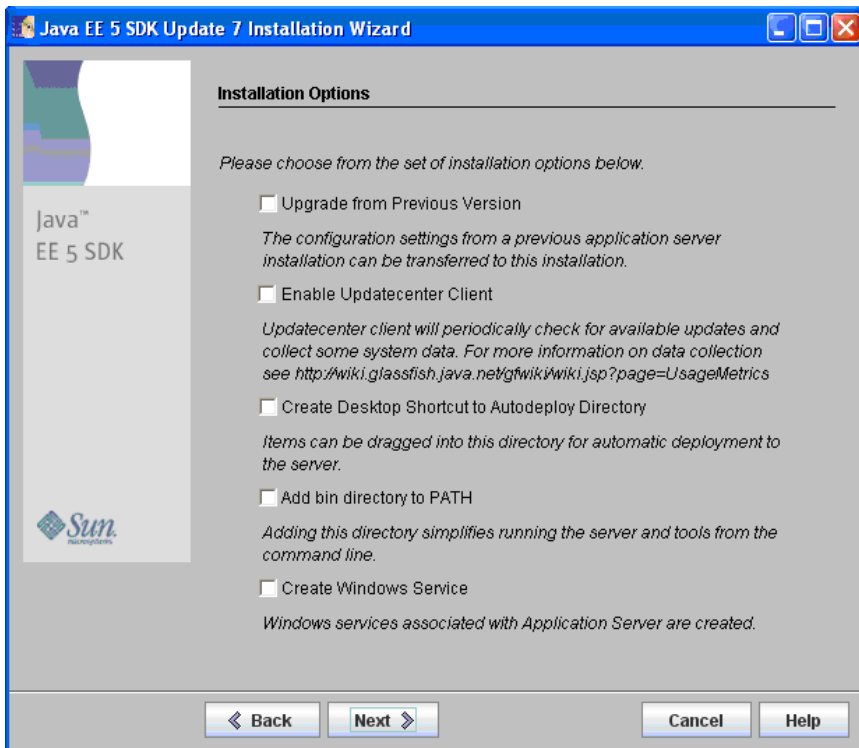


6. Specify the JDK Location. You can use the 'Browse' button to browse the JDK location. After specifying the JDK location, click 'Next'.

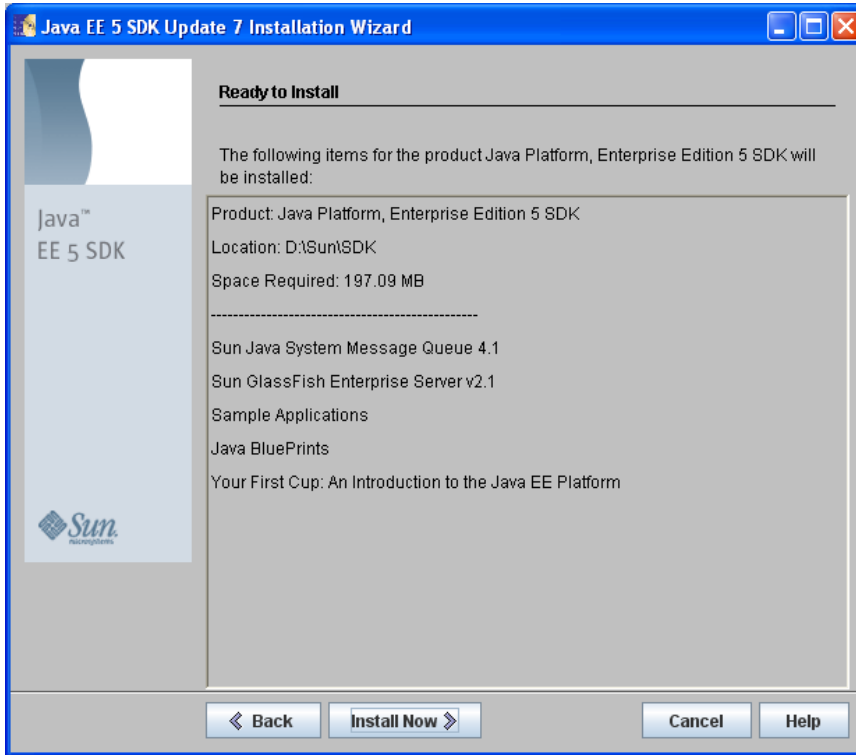
The following screen is displayed.



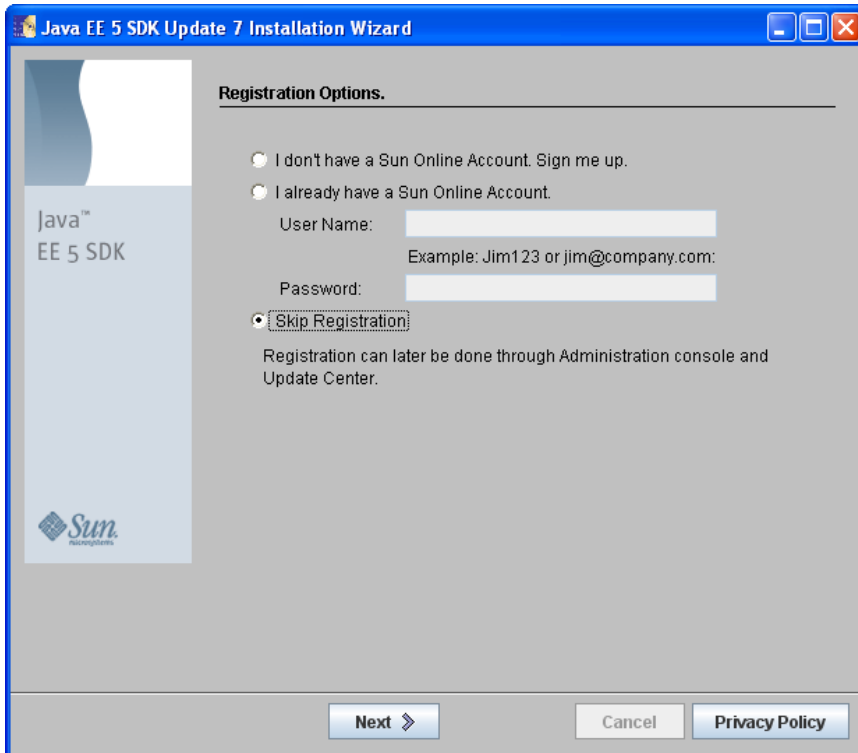
7. Specify the administrator user name Provide the administrator password and choose the option to Don't prompt for Administrator User Name.
8. Click 'Next'. The following screen is displayed.



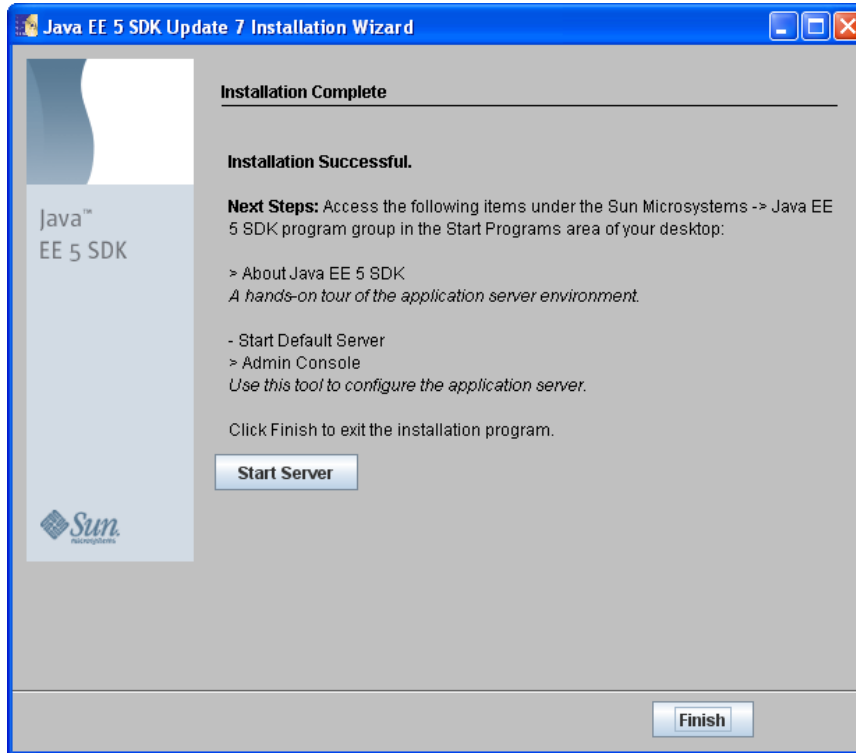
9. Uncheck all options given on this screen and click 'Next'. The following screen is displayed.



10. This screen confirms that the installer is ready to install JEE 5 SDK and displays the details of installation. Click 'Install Now' button to proceed. The following screen is displayed.



11. Select 'Skip Registration' and click 'Next'. The following screen is displayed after installation.



12. Click 'Finish' to complete installation and exit the setup.

13. Now, go to the JEE 5 SDK installation directory and copy the file 'javaee.jar' to the Oracle FLEXCUBE installation directory.

JAR File Name	Copy from	Copy to
javaee.jar	{J2EE_SDK_INSTALLATION_DIR}\lib	{INSTALLER_DIR}\Library\application

Once the required file has been copied, you may uninstall Sun JEE 5 SDK.

1.3.3 Prerequisites for Integrating Host and Reports

This section contains the details of the JAR files required for deploying Oracle FLEXCUBE UBS Application with Oracle BI Reports.

Component	License Information	Download Location	Instructions
Apache Axis 1.4	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file 'axis-bin-1_4.zip' from the following URL: http://www.apache.org/dist/ws/axis/1_4/	Extract 'Axis1.4'. Copy the files 'axis.jar', 'jaxrpc.jar' and 'wsdl4j-1.5.1.jar' to the following directory: {INSTALLER_DIR}\Library\application Copy the files 'commons-discovery-0.2.jar' and

Component	License Information	Download Location	Instructions
			'commons-logging-1.0.4.jar' to the following directory: {INSTALLER_DIR}\Library\application
PDFBox 0.7.3	Berkeley Software Distribution (BSD). The license information is available inside the PDFBox distribution.	Download the file ' PDFBox-0.7.3.zip ' from the following URL: http://sourceforge.net/projects/pdfbox/	Extract 'PDFBox 0.7.3' and copy the file 'PDFBox-0.7.3.jar' to the following directory: {INSTALLER_DIR}\Library\plugin-reports

1.3.3.1 Indirect Dependencies

Following is the indirect dependency:

Component	License Information	Download Location	Instructions
Fontbox 0.1.0	Berkeley Software Distribution (BSD). The license information is available inside the Fontbox distribution.	Download the file ' FontBox-0.1.0.zip ' from the following URL: http://sourceforge.net/projects/fontbox/	Extract 'Fontbox 0.1.0' and copy the file 'FontBox-0.1.0.jar' to the following directory: {INSTALLER_DIR}\Library\plugin-reports

1.3.4 Prerequisites for Integrating Host and Oracle SOA Suite 11g R1

This section contains the details of the JAR files required for deploying Oracle FLEXCUBE UBS Application with Oracle BPEL PM.

1.3.4.1 Oracle SOA Suite 11g R1

Install Oracle SOA Suite 11g R1.

1.3.4.2 Oracle BPEL PM Libraries

You need to copy certain JAR files from Oracle BPEL PM Libraries. Oracle BPEL PM Libraries are licensed and distributed by Oracle Corporation.

Once the installation of Oracle SOA Suite 11.1.1.2.0 is completed, copy the following JAR files from the respective directories as per the table below:

JAR File Name	Directory
bpm-infra.jar	<MIDDLEWARE_HOME>/Oracle_SOA1/soa/modules/oracle.soa.fabric_11.1.2
bpm-services.jar	<MIDDLEWARE_HOME>/Oracle_SOA1/soa/modules/oracle.soa.workflow_11.1.2
orapel.jar	<MIDDLEWARE_HOME>/Oracle_SOA1/soa/modules/oracle.soa.bpel_11.1.2
xmlparserv2.jar	<MIDDLEWARE_HOME>/Oracle_SOA1/modules/oracle.xdk_11.1.2

JAR File Name	Directory
xml.jar	<MIDDLEWARE_HOME>/Oracle_SOA1/modules/oracle.xdk_11.1.2

Copy each file from their respective location to the following directory:

{INSTALLER_DIR}\Library\plugin-bpel

1.3.4.3 Oracle JPSProvider Libraries

You need to copy certain JAR files from Oracle JPSProvider Libraries. Oracle JPSProvider Libraries are licensed and distributed by Oracle Corporation.

Once the installation of of Oracle SOA suite 11.1.1.2.0 Application Server is completed, copy the following JAR files from the respective directories as per the table below:

JAR File Name	Directory
soa-infra-mgmt.jar	<MIDDLEWARE_HOME>/ Oracle_SOA1/soa/modules/oracle.soa.mgmt_11.1.2
fabric-common.jar	<MIDDLEWARE_HOME>/ Oracle_SOA1/modules/oracle.fabriccommon_11.1.2
identitystore.jar	<MIDDLEWARE_HOME>/Oracle_SOA1/modules/oracle.idm_11.1.2
identityutils.jar	<MIDDLEWARE_HOME>/Oracle_SOA1/modules/oracle.idm_11.1.2
jps-api.jar	<MIDDLEWARE_HOME>/Oracle_SOA1/modules/oracle.jps_11.1.2

Copy each file from their respective location to the following directory:

{INSTALLER_DIR}\Library\plugin-bpel

1.3.5 Prerequisites for Integrating Host and Scheduler

This section contains the details of the JAR files required for deploying Oracle FLEXCUBE UBS Application with Notify Scheduler.

Component	License Information	Download Location	Instructions
Oracle 11g Database Driver (11.2.0.2.0)	Licensed and distributed by Oracle Corporation.	Download the file 'ojdbc6.jar' from the following URL: http://www.oracle.com/technology/software/tech/java/sqlj_jdbc/htdocs/jdbc_111060.html	Copy the file 'ojdbc6.jar' to the following directory: {INSTALLER_DIR}\Library\common
Quartz 1.6.6 (Required if the	http://www.quartz-scheduler.org/docs/license.html	Download the file 'quartz-1.6.6.zip' from the following URL:	Extract 'quartz-1.6.6.zip' and copy the file 'Quartz-1.6.6.jar' to the following directory:

Component	License Information	Download Location	Instructions
customer opts for Quartz as the scheduler)		http://www.quartz-scheduler.org/download/download-catalog.html	{INSTALLER_DIR}\Library\plugin-quartz
Bouncy Castle 1.5 (Required in scheduler to encrypt SFMS messages)	http://www.bouncycastle.org/licence.html	Download the files ' bcprov-jdk15-145.jar ' and ' bcmail-jdk15-145.jar ' from the following URL: http://www.bouncycastle.org/latest_releases.html	Copy the files 'bcprov-jdk15-145.jar' and 'bcmail-jdk15-145.jar' to the following directory: {INSTALLER_DIR}\Library\plugin-crypto
Apache Commons Net 2.0	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' commons-net-2.0.zip ' from the following URL: http://archive.apache.org/dist/commons/net/binaries/	Extract 'Commons net 2.0' and copy the file 'commons-net-2.0.jar' to the following directory: {INSTALLER_DIR}\Library\plugin-quartz
Apache Commons Transaction 1.2	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' commons-transaction-1.2.zip ' from the following URL: http://archive.apache.org/dist/commons/transaction/binaries/	Extract 'Commons Transaction 1.2' and copy the file 'commons-transaction-1.2.jar' to the following directory: {INSTALLER_DIR}\Library\plugin-quartz

1.3.6 Prerequisites for Integrating Host and DMS

This section contains the details of the JAR files required for deploying Oracle FLEXCUBE UBS Application with DMS.

Component	License Information	Download Location	Instructions
Apache Commons Fileupload 1.2	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' commons-fileupload-1.2-bin.zip ' from the following URL: http://archive.apache.org/dist/commons/fileupload/binaries/	Extract 'Commons Fileupload 1.2' and copy the file 'commons-fileupload-1.2.jar' to the following directory: {INSTALLER_DIR}\Library\application
Quartz 1.6.6 (Required if the customer opts for Quartz as	http://www.quartz-scheduler.org/docs/license.html	Download the file ' quartz-1.6.6.zip ' from the following URL: http://www.quartz-scheduler.org/download/download-catalog.html	Extract 'quartz-1.6.6.zip' and copy the file 'Quartz-1.6.6.jar' to the following directory: {INSTALLER_DIR}\Library\plugin-quartz

Component	License Information	Download Location	Instructions
the scheduler)		wnload-catalog.html	
Bouncy Castle 1.5 (Required in scheduler to encrypt SFMS messages)	http://www.bouncycastle.org/licence.html	Download the files ' bcprov-jdk15-145.jar ' and ' bcmail-jdk15-145.jar ' from the following URL: http://www.bouncycastle.org/latest_releases.html	Copy the files 'bcprov-jdk15-145.jar' and 'bcmail-jdk15-145.jar' to the following directory: {INSTALLER_DIR}\Library\plugin-crypto
Apache Commons Net 2.0	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' commons-net-2.0.zip ' from the following URL: http://archive.apache.org/dist/commons/net/binaries/	Extract 'Commons net 2.0' and copy the file 'commons-net-2.0.jar' to the following directory: {INSTALLER_DIR}\Library\plugin-quartz
Apache Commons Transaction 1.2	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' commons-transaction-1.2.zip ' from the following URL: http://archive.apache.org/dist/commons/transaction/binaries/	Extract 'Commons Transaction 1.2' and copy the file 'commons-transaction-1.2.jar' to the following directory: {INSTALLER_DIR}\Library\plugin-quartz
Apache Commons IO 1.3 (Indirect dependency)	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' commons-io-1.3.zip ' from the following URL: http://archive.apache.org/dist/commons/io/binaries/	Extract 'Commons IO 1.3' and copy the file 'commons-io-1.3.jar' to the following directory: {INSTALLER_DIR}\Library\application
Apache Commons HTTPClient 3.0	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' commons-httpclient-3.0.zip ' from the following URL: http://archive.apache.org/dist/httpcomponents/commons-httpclient/3.0/binary/	Extract 'Commons HTTPClient 3.0' and copy the file 'commons-httpclient-3.0.jar' to the following directory: {INSTALLER_DIR}\Library\application
Apache Commons Codec 1.2 (Indirect dependency)	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' commons-codec-1.2.zip ' from the following URL: http://archive.apache.org/dist/commons/codec/	Extract 'Codec 1.2' and copy the file 'commons-codec-1.2.jar' to the following directory: {INSTALLER_DIR}\Library\common
Apache Commons	Apache license version 2.0 is available at the	Download the file ' commons-logging-	Extract 'Commons Logging 1.0.4' and copy the file

Component	License Information	Download Location	Instructions
Logging 1.0.4	following URL: http://www.apache.org/licenses/LICENSE-2.0	1.0.4.zip from the following URL: http://archive.apache.org/dist/commons/logging/binaries/	'commons-logging-1.0.4.jar' to the following directory: {INSTALLER_DIR}\Library\application
Apache Axis 1.4	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' axis-bin-1_4.zip ' from the following URL: http://www.apache.org/dist/ws/axis/1_4/	Extract 'Axis1.4'. Copy the files 'axis.jar', 'jaxrpc.jar' and 'wsdl4j-1.5.1.jar' to the following directory: {INSTALLER_DIR}\Library\application Copy the files 'commons-discovery-0.2.jar' and 'commons-logging-1.0.4.jar' to the following directory: {INSTALLER_DIR}\Library\application

1.3.7 Prerequisites for Integrating Host and OEM Adapter

This section lists the JAR files that are required for deploying Oracle FLEXCUBE UBS application with Oracle OEM Adapter.

1.3.7.1 Oracle Toplink 11g

You need to copy certain JAR files from Oracle Toplink 11g. Oracle Toplink is licensed and distributed by Oracle Corporation.

If you are using Oracle WebLogic Server 11g R1, you need to copy the following JAR file from the respective directory:

JAR File Name	Directory
com.oracle.toplink_1.0.0.0_11-1-1-1-0.jar	{WL_HOME}\Modules

Copy the above file to the following directory:

{INSTALLER_DIR}\Library\plugin-elcm

1.3.8 Prerequisites for Integrating Host and ELCM

This section contains the details of the JAR files required for deploying Oracle FLEXCUBE UBS Application with ELCM.

Component	License Information	Download Location	Instructions
JEE 5	License information is displayed while downloading and	Download JEE 5 SDK from the Sun Java EE Download Center at the following URL:	Refer to the section 'Installing JEE 5 SDK' in this chapter.

Component	License Information	Download Location	Instructions
	installing JEE 5 SDK.	http://java.sun.com/javase/downloads/ Oracle FLEXCUBE does not support Java EE 6 SDK. You need to download JEE 5 SDK for Oracle FLEXCUBE Host.	
Oracle Toplink 11g	Oracle Toplink is licensed and distributed by Oracle Corporation.	http://www.oracle.com/technology/middleware/toplink/downloads/index.html	If you are using Oracle WebLogic Server 11g R1, you need to copy the 'com.oracle.toplink_1.0.0.0_11-1-1-1-0.jar' file from the folder '{WL_HOME}\Modules' to the following directory: {INSTALLER_DIR}\Library\plugin-elcm
Oracle ojdbc14	Oracle ojdbc is licensed and distributed by Oracle Corporation.	http://www.oracle.com/technology/database/enterprise-edition/jdbc-10201-088211.html	Copy 'Ojdbc14.jar' to the following directory: {INSTALLER_DIR}\Library\plugin-elcm
Oracle translator and runtime12	Oracle translator and runtime12 is licensed and distributed by Oracle Corporation.	http://www.oracle.com/technology/database/features/jdbc/index-091264.html	Download jpub_102.zip (JPublisher 10g Release 10.2). Extract the zip file and copy 'translator.jar and runtime12.jar

1.3.9 Prerequisites for Decentralized Branch

This section contains the details of JAR files required for deploying Oracle FLEXCUBE UBS Application in decentralized mode.

Component	License Information	Download Location	Instructions
Java Transaction API Classes 1.1	Java Transaction API Classes 1.1 license is available at the following URL: http://download.oracle.com/otndocs/jcp/jta-1.1-classes-oth-JSpec/	Download the file ' Jta-1.1-classes.zip ' from the URL: http://download.oracle.com/otndocs/jcp/jta-1.1-classes-oth-JSpec/	Extract the zip file 'Jta-1.1-classes.zip' to the following directory: {INSTALLER_DIR}\Library\jta Ensure that the 'jta' folder contains a folder by name 'javax' in it. You need to first create the directory 'jta' in '{INSTALLER_DIR}\Library'.

Component	License Information	Download Location	Instructions
Apache Commons DBCP 1.2.1	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' commons-dbcp-1.2.1.zip ' from the URL: http://archive.apache.org/dist/commons/dbcp/binaries/	Extract 'Commons DBCP 1.2.1' and copy the file 'commons-dbcp-1.2.1.jar' to the following directory: {INSTALLER_DIR}\Library\application
Apache Commons Pool 1.2 (Indirect dependency)	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' commons-pool-1.2.zip ' from the URL: http://archive.apache.org/dist/commons/dbcp/binaries/	Extract 'Commons Pool 1.2' and copy the file 'commons-pool-1.2.jar' to the following directory: {INSTALLER_DIR}\Library\application
Apache Commons Collections 2.1 (Indirect dependency)	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' collections-2.1.zip ' from the URL: http://archive.apache.org/dist/commons/collections/binaries/	Extract 'collections-2.1' and copy the file 'commons-collections.jar' to the following directory: {INSTALLER_DIR}\Library\application
Apache Commons HTTPClient 3.0	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' commons-httpclient-3.0.zip ' from the URL: http://archive.apache.org/dist/httpcomponents/commons-httpclient/3.0/binary/	Extract 'HTTPClient 3.0' and copy the file 'commons-httpclient-3.0.jar' to the following directory: {INSTALLER_DIR}\Library\application
Apache Commons Codec 1.2 (Indirect dependency)	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' commons-codec-1.2.zip ' from the following URL: http://archive.apache.org/dist/commons/codec/	Extract 'Codec 1.2' and copy the file 'commons-codec-1.2.jar' to the following directory: {INSTALLER_DIR}\Library\common
Apache Commons Logging 1.0.4 (Indirect dependency)	Apache license version 2.0 is available at the following URL: http://www.apache.org/licenses/LICENSE-2.0	Download the file ' commons-logging-1.0.4.zip ' from the following URL: http://archive.apache.org/dist/commons/logging/binaries/	Extract 'Commons Logging 1.0.4' and copy the file 'commons-logging.jar' to the following directory: {INSTALLER_DIR}\Library\application

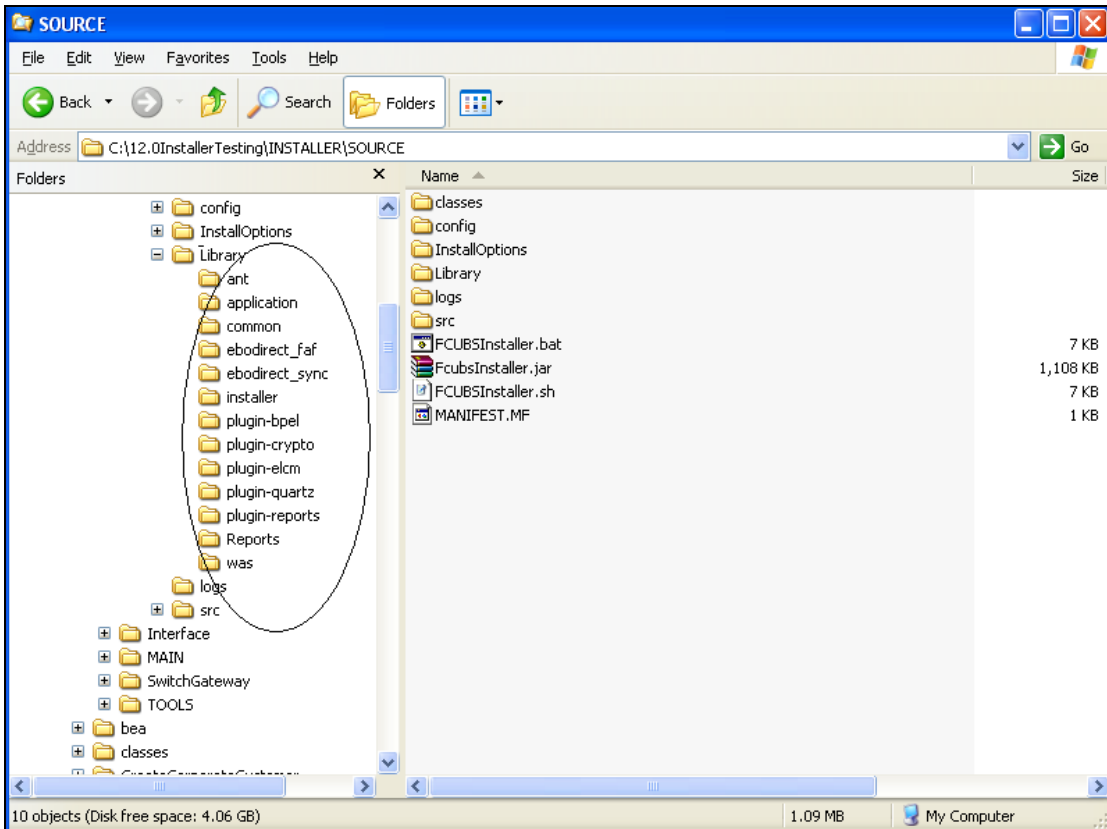
1.3.10 Prerequisites for Gateway

This section contains the details of the JAR files required for setting up the EAR of Gateway Applications.

Component	License Information	Download Location	Instructions
Oracle 11g Database Driver (11.2.0.2.0)	Licensed and distributed by Oracle Corporation.	Download the file ' ojdbc6.jar ' from the following URL: http://www.oracle.com/technology/software/tech/java/sqlj_jdbc/htdocs/jdbc_111060.html	Copy the file 'ojdbc6.jar' to the following directory: {INSTALLER_DIR}\Library\com mon
JEE 5 SDK	License information is displayed while downloading and installing JEE 5 SDK.	Download JEE 5 SDK from the Sun Java EE Download Center at the following URL: http://java.sun.com/javaee/downloads/ Oracle FLEXCUBE does not support Java EE 6 SDK. You need to download JEE 5 SDK for Oracle FLEXCUBE Host.	Install JEE 5 SDK and copy the file 'javaee.jar' to the folder '{INSTALLER_DIR}\Library\application'. <i>Refer to the section 'Installing JEE 5 SDK' in this chapter for details.</i>

1.3.11 Heirarchy of Folders in Oracle FLEXCUBE Installation Library

You need to maintain the 'Library' folder as shown below. You need to copy the JAR files into the respective folders as per this hierarchy.

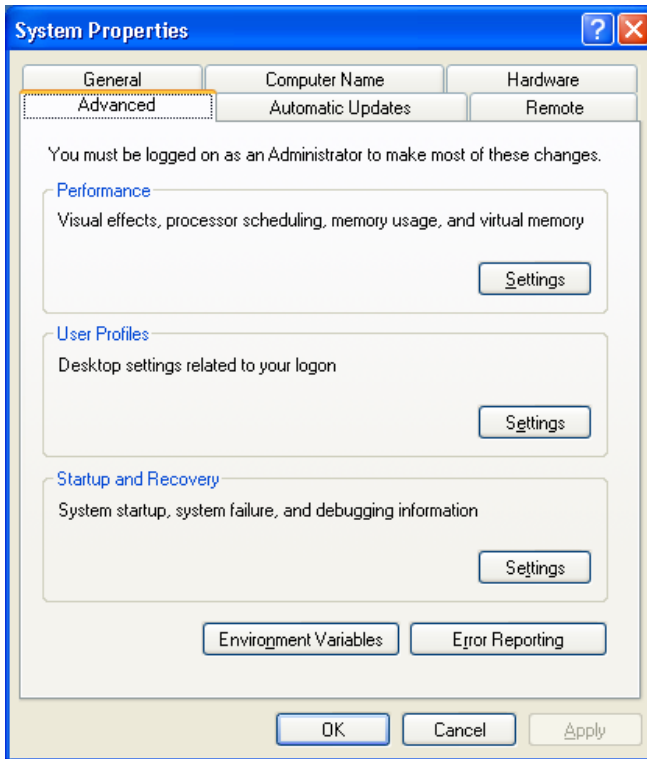


1.4 Setting System Properties for Oracle FLEXCUBE Installer

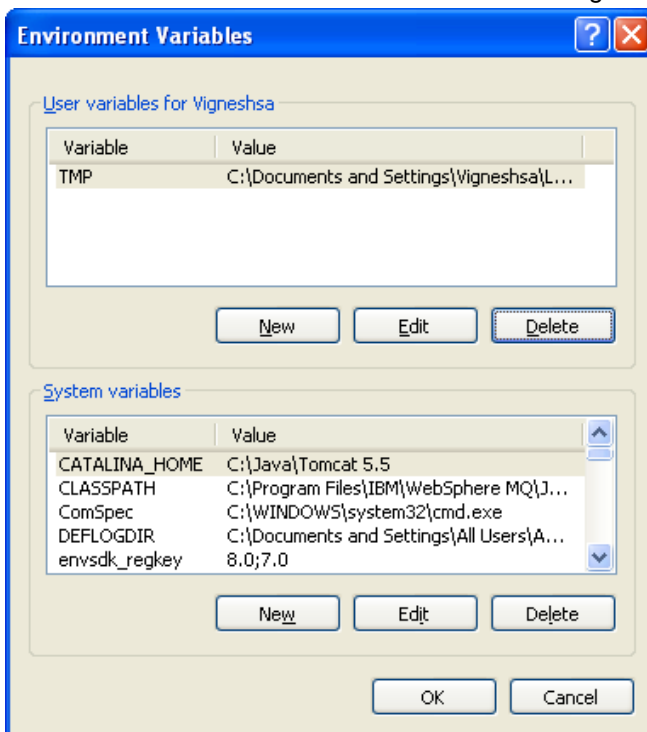
You need to set the system properties before running Oracle FLEXCUBE Installer. These settings are applicable to Oracle FLEXCUBE and the Gateway Applications.

1. Navigate to 'Control Panel' from Windows and double-click 'System' icon. The 'System Properties' window is displayed.

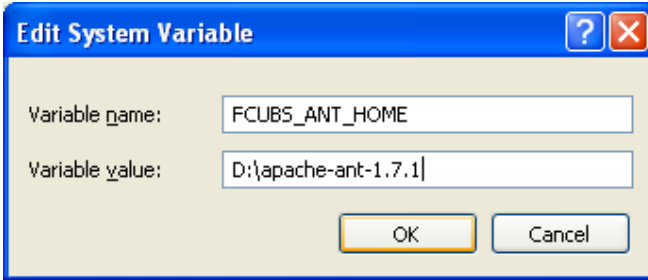
2. Select 'Advanced' tab.



3. Click 'Environment Variables' button. The following window is displayed.



4. You need to create a new user variable. Click 'New'. You will be prompted to enter the variable name and value.



You need to create the following variables.

Sl. No.	Variable Name	Variable Value	Remarks
1.	FCUBS_ANT_HOME	Location of Apache Ant Root Directory Eg: D:\apache-ant-1.7.1	Oracle FLEXCUBE Installer needs Apache Ant 1.7.1
2.	FCUBS_JAVA_HOME	Location of the JDK Directory Eg: C:\Java\jdk1.6.0_16	Check the version of the JDK running on the Application Server on which the EAR has to be deployed. Based on the JDK version, set the FCUBS_JAVA_HOME to JDK1.6. The JDK version in the app server should also be the same. Ensure that the variable value for FCUBS_JAVA_HOME has no space characters..

Variables required for Gateway

Sl. No.	Variable Name	Variable Value	Remarks
1.	FCUBS_ANT_OPTS	-Xmx512M	This variable is created for building Gateway Web Service Application.

Variables required for Oracle WebLogic Application Server

Sl. No.	Variable Name	Variable Value	Remarks
1.	WL_HOME	Location of the WebLogic Application Server home directory Eg: D:\bea\wlserver_10.3	This variable is required when the Web Service Application is deployed to Oracle WebLogic Application Server.
2.	DOMAIN_HOME	Location of the domain in WebLogic Application Server Eg: D:\bea\user_projects\domains\mallik	This variable is required when the Web Service Application is deployed to Oracle WebLogic Application Server.

Variables required for IBM WebSphere Application Server

Sl. No.	Variable Name	Variable Value	Remarks
1.	WAS_HOME	Location of Websphere Application Server home directory Eg: C:\Program Files\IBM\WebShere\AppServer	This variable is required when the Web Service Application is deployed to IBM WebSphere Application Server.

Variables required for Database and ELCM POJO

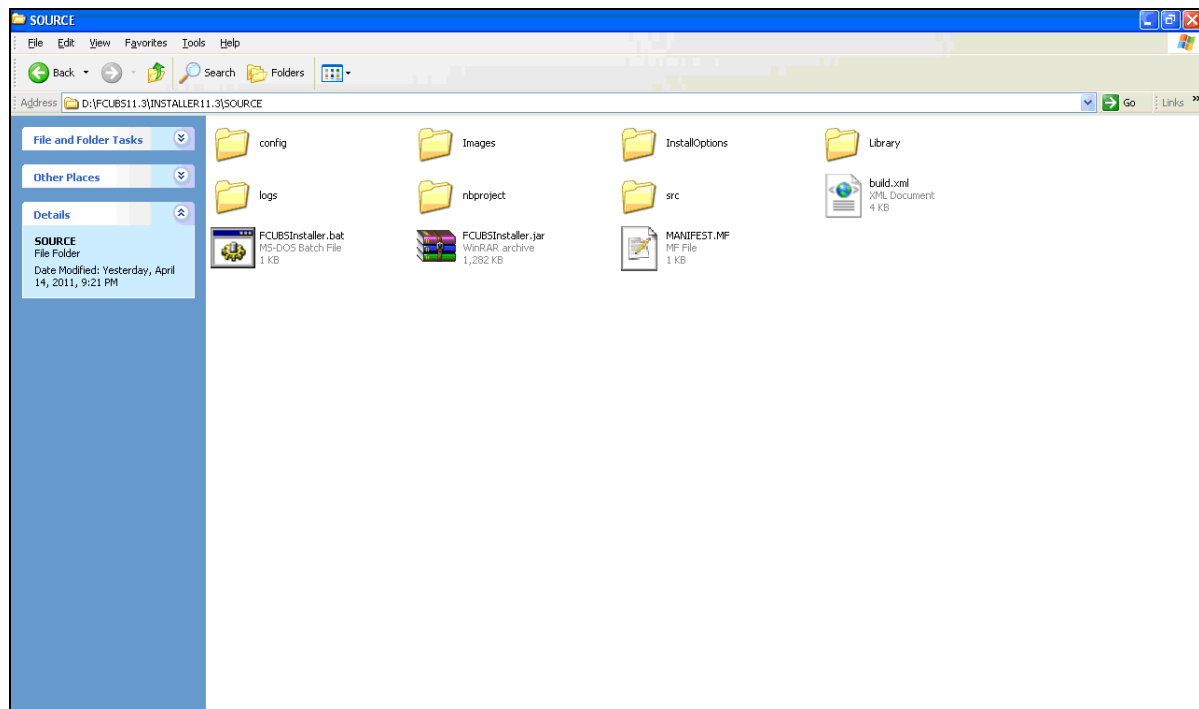
For Database and ELCM POJO installations, you need to edit the variable 'Path'.

Sl. No.	Variable Name	Variable Value	Remarks
1.	Path	Edit the variable value and provide the Oracle home value Eg: D:\Oracle10gClient\bin	This variable is required for database and ELCM POJO installations.

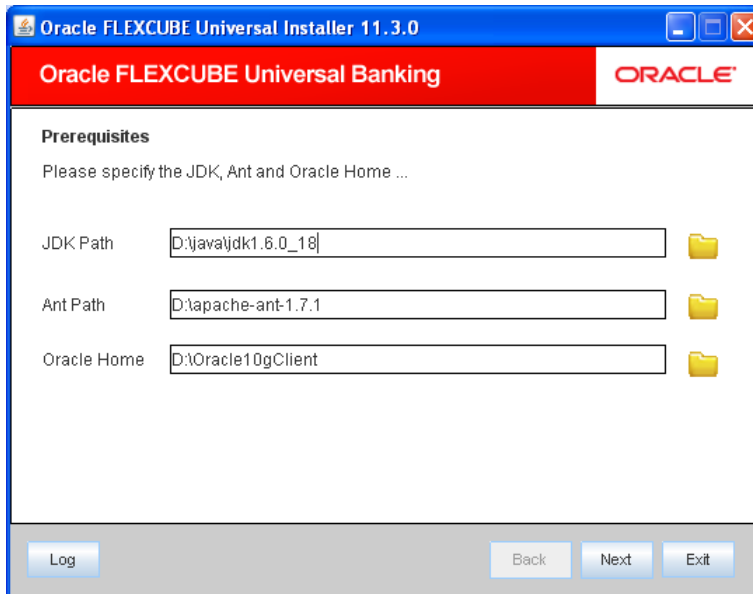
Once you have copied the Installer, INFRA and Gateway sources from the Software, right-click the the source folder on the local machine, go to 'Properties' and uncheck the attribute 'Read Only'. Apply the settings to the folder, sub-folders and files when prompted.

1.5 Running Oracle FLEXCUBE Installer On Windows

Now, the source folder in the local system will look like the one below.



Run the installer by double-clicking 'FCUBSInstaller.bat' from the installer source folder. The Welcome screen is displayed.



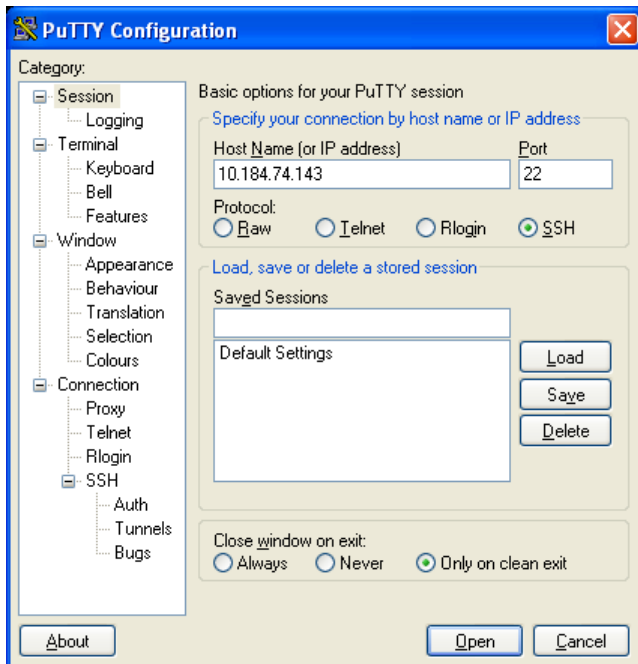
Now you can proceed with the installation process.

1.6 **Running Oracle FLEXCUBE Installer on UNIX/LINUX**

This section describes the method to run Oracle FLEXCUBE Installer on UNIX/LINUX system.

1.6.1 **Login into PUTTY**

In order to run installer on UNIX machines, you need to login to the UNIX machine using PuTTY. Go to 'PuTTY Configuration' screen.



Provide the following details:

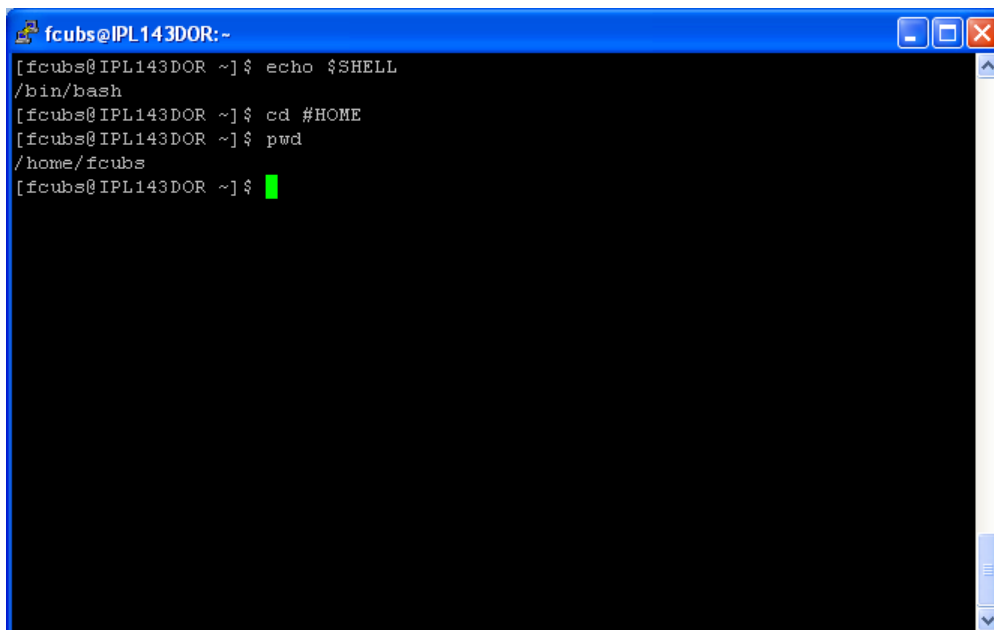
Host Name

Specify the host address of UNIX machine which you need to connect.

Protocol

Select SSH as the protocol.

Once you have provided these details, click 'Open'. You will be prompted for the login ID and password of the UNIX machine.



Enter the login details.

You can check the current shell for the user in putty console using the following command.

echo \$SHELL

In case the current shell is not bash, you need to set the shell to bash.

You can check the user home directory using the following command.

cd \$HOME

\$pwd

1.6.2 Exporting Environment Variables

You can export the environment variables in UNIX by modifying the '.bash_profile' file. Use the following command to find out the .bash_profile file type.

```
$ find . -user <username> -type f -name '.bash_profile*'
```

You need to edit .bash_profile based on the details given below. If the .bash_profile file does not exist, you need to create it.

Bash Details for Installer (Mandatory)

FCUBS_ANT_HOME	Give the Apache installation location
FCUBS_JAVA_HOME	Give the Java installation location

Example

```
FCUBS_JAVA_HOME='/oracle/appsvrs/JRKT16'
```

```
export FCUBS_JAVA_HOME
```

```
FCUBS_ANT_HOME='/home/fcubs/test/apache-ant-1.7.1'
```

```
export FCUBS_ANT_HOME
```

The above examples are applicable to the LINUX environment. Export commands may vary for each operating system.

Bash Details for Database and ELCM POJO Installation

You need to edit the variable 'Path' and apply the Oracle Home path as the variable value.

You can check the 'Path' variable in a UNIX system using the following command:

```
$ echo $PATH
```

You can append a directory to the 'Path' variable using the following command:

```
$ export PATH = $PATH;/Java/jdk1.6.0_18/bin;/Oracle10gClient/bin;
```

ORACLE_HOME	Give the Oracle Client installation location
-------------	--

Example

```
ORACLE_HOME='/oracle/oracle11gr2_client/product/11.2.0/client_1'  
export ORACLE_HOME
```

Bash Details for Gateway Webservice Building

FCUBS_ANT_OPTS	Give the maximum heap size i.e. – Xmx512M
----------------	---

Example

```
FCUBS_ANT_OPTS='-Xmx512M'  
export FCUBS_ANT_OPTS
```

Bash Details for Oracle WebLogic Application Server

WL_HOME	Give the Oracle WebLogic installation location
DOMAIN_HOME	Give the path to the domain location

Example

```
WL_HOME='/oraint1/web1034/Oracle/Middleware/wlserver_10.3'  
export FCUBS_ANT_OPTS  
DOMAIN_HOME='/oraint1/web1034/Oracle/Middleware/user_projects/domains/fcubs113_domain'  
export WL_HOME  
export DOMAIN_HOME
```

Bash Details for IBM WebSphere Application Server

WAS_HOME	Give the IBM WebSphere installation location
----------	--

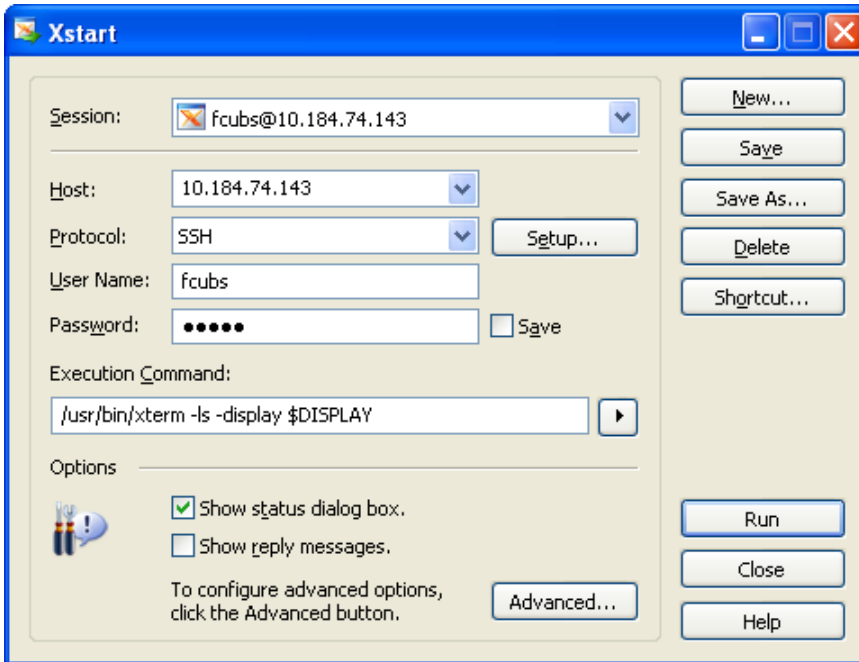
Example

```
WAS_HOME='/oraint1/IBM/WebSphere/AppServer1'  
export WAS_HOME
```

1.6.3 Running Oracle FLEXCUBE Installer through XManager

In order to run Oracle FLEXCUBE Installer on UNIX machine, you need to have the software called XManager. This section contains the settings required for running Oracle FLEXCUBE Installer through XManager on UNIX machines.

Install XManager. You can find an icon 'Xstart' inside XManager folder. Double-click 'Xstart' icon in order to connect to the server. The following screen is displayed.



Specify the following details:

Session

Specify the session name.

Host

Specify the UNIX machine IP address.

Protocol

Specify the protocol based on the the operating system.

A few examples for the protocols for various operating systems are given below:

Operating System	Protocol
Oracle Enterprise Linux	SSH
IBM AIX	TELNET
Solaris	SSH
UNIX	SSH

User Name

Specify the UNIX user name.

Password

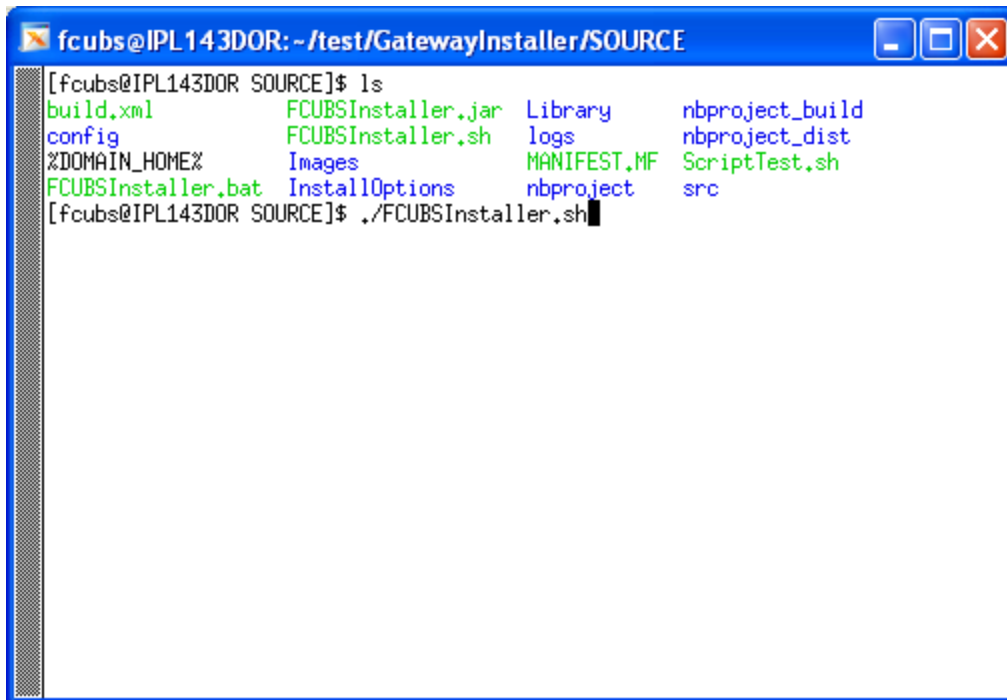
Specify the password for the UNIX user name.

Excution Command

Specify the execution command based on the operating system.

Operating System	Execution Command
Oracle Enterprise Linux	/usr/bin/xterm -ls -display \$DISPLAY
IBM AIX	/usr/dt/bin/dtterm -ls -display \$DISPLAY
Solaris	/usr/openwin/bin/xterm -ls -display \$DISPLAY
UNIX	/usr/bin/X11/xterm -ls -display \$DISPLAY

Once you have specified the details, click 'Run'. The Xstart Console window is displayed.



```
fcubs@IPL143DOR: ~/test/GatewayInstaller/SOURCE
[fcubs@IPL143DOR SOURCE]$ ls
build.xml          FCUBSInstaller.jar  Library          nbproject_build
config            FCUBSInstaller.sh  logs            nbproject_dist
%DOMAIN_HOME%    Images              MANIFEST.MF     ScriptTest.sh
FCUBSInstaller.bat InstallOptions      nbproject       src
[fcubs@IPL143DOR SOURCE]$ ./FCUBSInstaller.sh
```

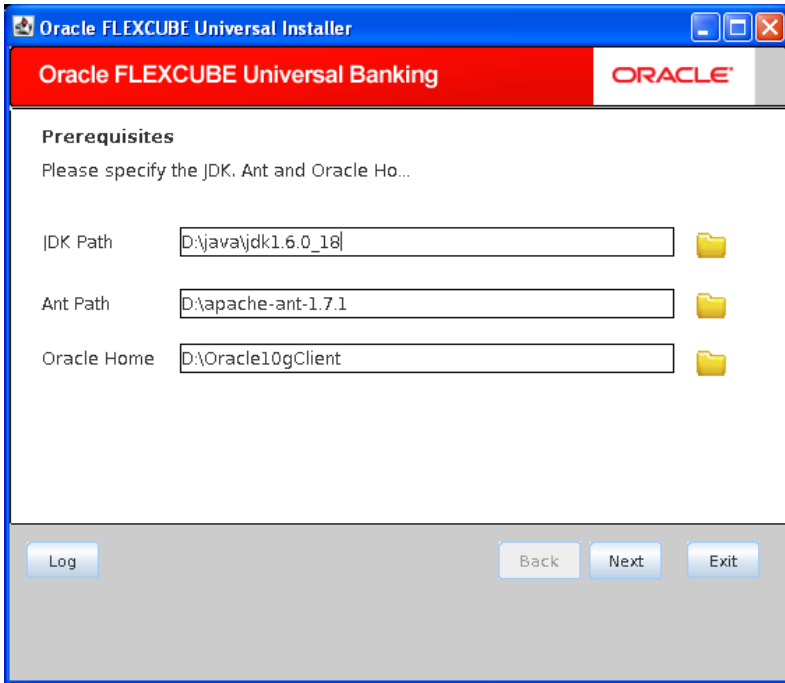
Use the following command to list the files present in the directory:

ls

In order to run the installer, you need to invoke the 'FCUBSInstaller.sh' file using the following command.

./FCUBSInstaller.sh

This command starts the installer. The following screen is displayed.



Now you can continue with the installation process.

The 'Installer folder and the Destination folder must be present in the UNIX/LINUX server with full access permissions.

2. Troubleshooting

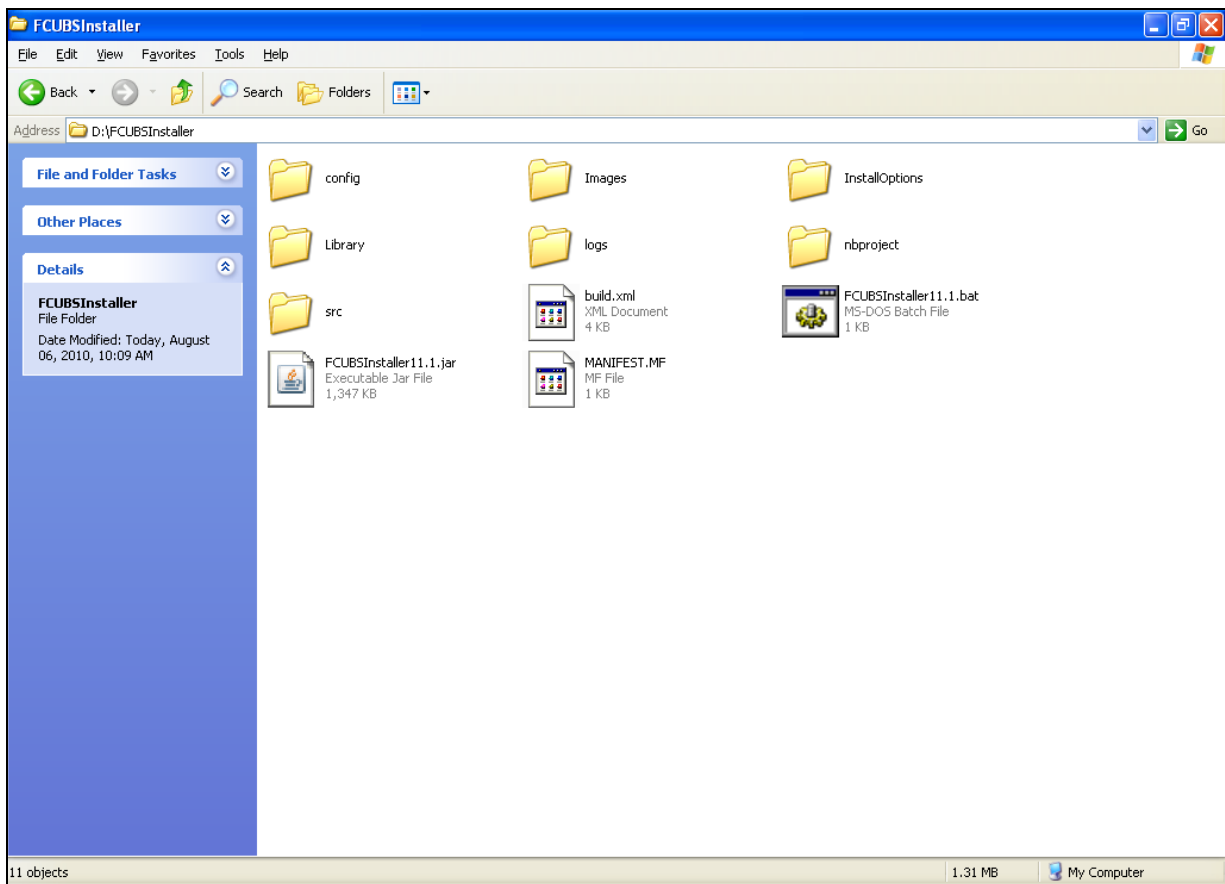
2.1 Introduction

This chapter guides you through the troubleshooting methods while installing Oracle FLEXCUBE. You can follow the methods described here to figure out the error and then troubleshoot it.

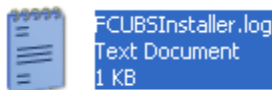
2.2 Checking Logs

If you get an error message while doing an Oracle FLEXCUBE Installation activity, you can check the log file to figure out the part of the code that caused the error. The log contains detailed information about executed methods and the type of error, if any.

In order to check the log file, go to the folder 'logs' in the Oracle FLEXCUBE Installer source in the local system.



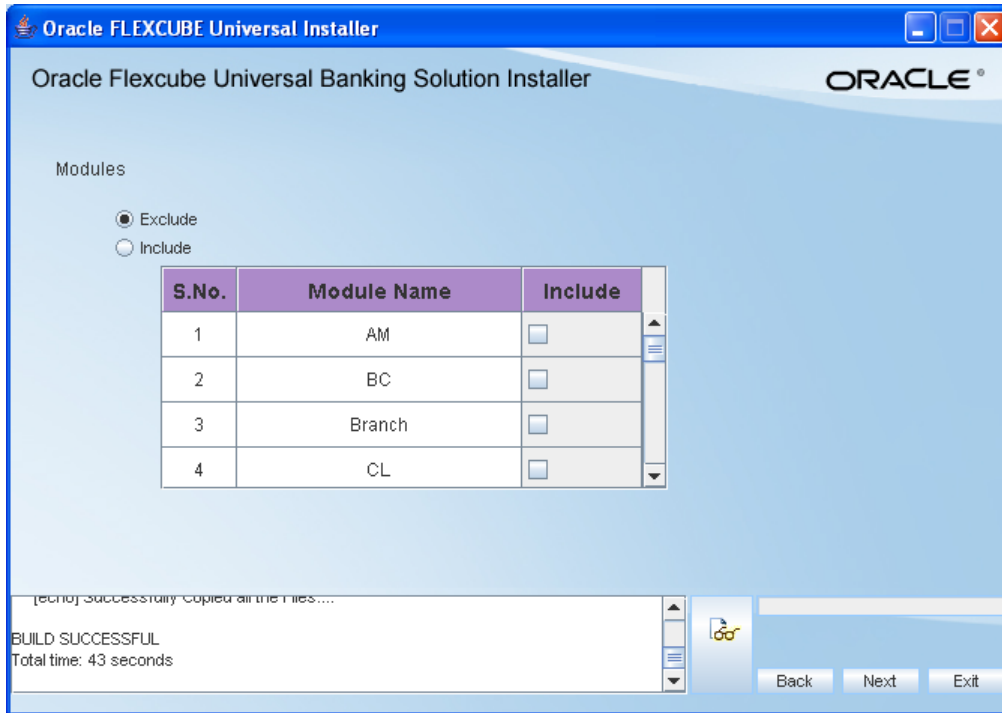
Inside the folder, you will find the log file 'FCUBSInstaller.log'. This file contains detailed information about the methods executed.



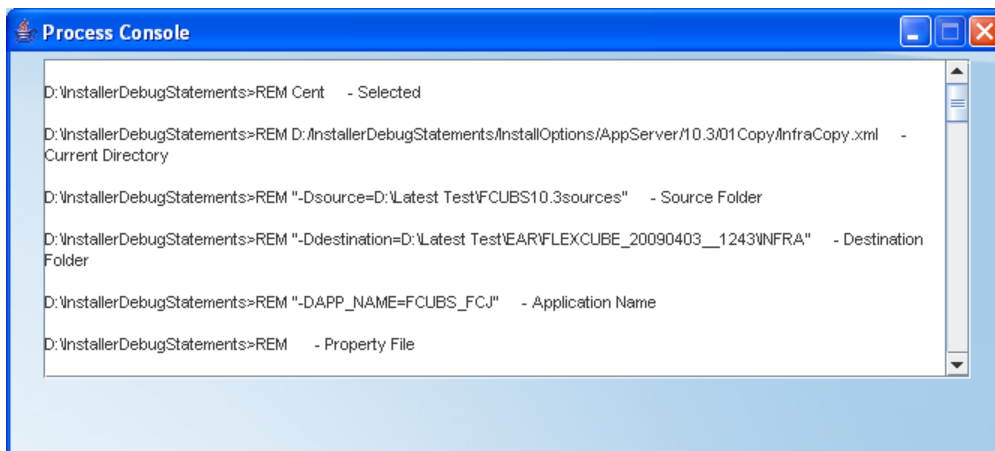
2.3 Console Messages

You can also check the console messages to resolve the issues faced while performing certain activities such as building. The console messages appear in the console pane of the Oracle FLEXCUBE Universal Installer window. The console messages contain information about the activity being executed.

Check the below screenshot for the console message location on Oracle FLEXCUBE Installer.



You can scroll down and read the full console message. If you wish to see a the console message on a different window, click the view button at the right. Oracle FLEXCUBE Installer displays the 'Process Console' screen.



In case of errors during installation, the console pane will contain the details as given below:

```

D:\InstallerDebugStatements>set JAVA_HOME=C:\Java\jdk1.5.0_03;

D:\InstallerDebugStatements>set path=C:\Java\jdk1.5.0_03\bin;C:\Java\apache-ant-1.7.0\bin;

D:\InstallerDebugStatements>ant Cent -f D:\InstallerDebugStatements\InstallOptions\AppServer\10.3\01 Copy\InfraCopy.xml
"-Dsource=D:\Latest Test\FCUBS10.3sources" "-Ddestination=D:\Latest Test\EAR\FLEXCUBE_20090403__1243\INFRA"
"-DAPP_NAME=FCUBS_FCJ"
Buildfile: D:\InstallerDebugStatements\InstallOptions\AppServer\10.3\01 Copy\InfraCopy.xml

Cent:
[echo] Centralised copy Starts.....
[copy] Copying 117 files to D:\Latest
Test\EAR\FLEXCUBE_20090403__1243\INFRA\FCJNeoWeb\Javasource\com\iflex\Branch
[copy] Copied 10 empty directories to 1 empty directory under D:\Latest
Test\EAR\FLEXCUBE_20090403__1243\INFRA\FCJNeoWeb\Javasource\com\iflex\Branch

```

Open the command prompt and run the commands given on the 'Process Console' screen.

```

C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Vigneshsa>set JAVA_HOME=C:\Java\jdk1.5.0_03

C:\Documents and Settings\Vigneshsa>set path=C:\Java\jdk1.5.0_03\bin;C:\Java\apache-ant-1.7.0\bin

C:\Documents and Settings\Vigneshsa>_

```

Further, execute the ant command you want in the command prompt. For example, you can execute the ant command as shown below.

```

C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Vigneshsa>set JAVA_HOME=C:\Java\jdk1.5.0_03

C:\Documents and Settings\Vigneshsa>set path=C:\Java\jdk1.5.0_03\bin;C:\Java\apache-ant-1.7.0\bin

C:\Documents and Settings\Vigneshsa>ant Cent -f D:\InstallerDebugStatements\InstallOptions\AppServer\10.3\01 Copy\InfraCopy.xml "-Dsource=D:\Latest Test\FCUBS10.3sources" "-Ddestination=D:\Latest Test\EAR\FLEXCUBE_20090403__1243\INFRA" "-DAPP_NAME=FCUBS_FCJ"
Buildfile: D:\InstallerDebugStatements\InstallOptions\AppServer\10.3\01 Copy\InfraCopy.xml

Cent:
[echo] Centralised copy Starts.....
[copy] Copying 117 files to D:\Latest Test\EAR\FLEXCUBE_20090403__1243\INFRA\FCJNeoWeb\Javasource\com\iflex\Branch
[copy] Copying 7 files to D:\Latest Test\EAR\FLEXCUBE_20090403__1243\INFRA\FCJNeoWeb\Javasource\com\iflex\host

BUILD SUCCESSFUL
Total time: 1 second
C:\Documents and Settings\Vigneshsa>_

```

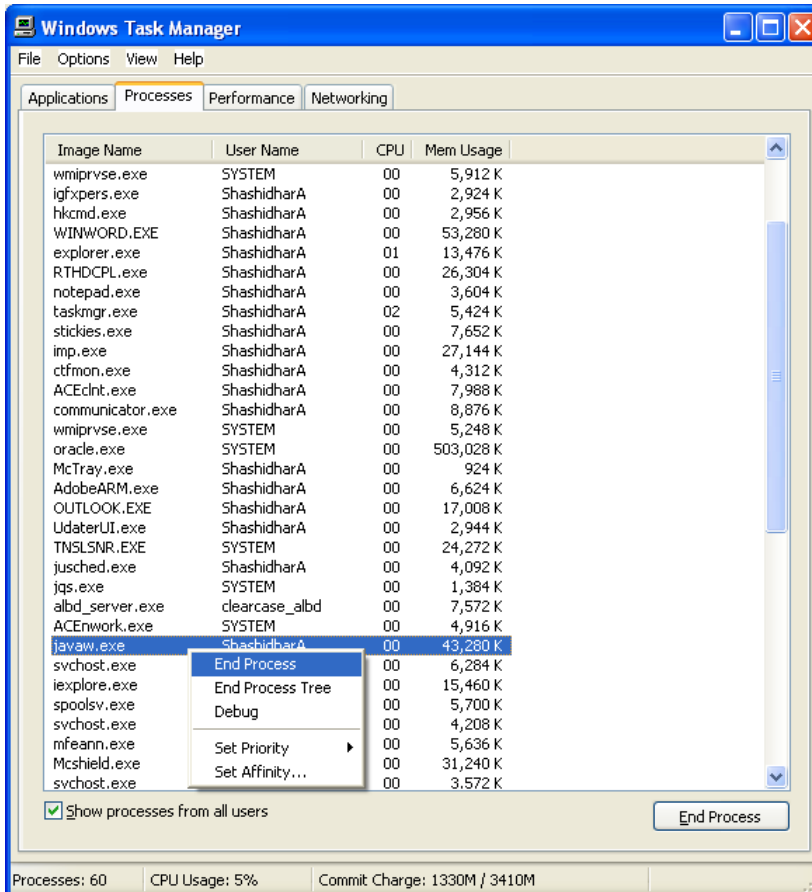
This gives a detailed description of the error, if any, which may be helpful in resolving the error.

2.4 Abrupt Exit from Installer (Windows Only)

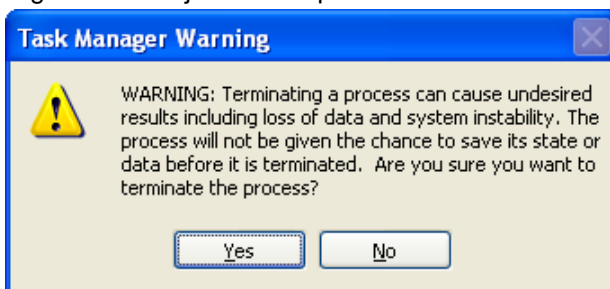
In case for some reason the Oracle FLEXCUBE Installer hangs and you are not able to proceed further, you may need to exit the Installer and restart the process. If you exit the Installer when it is hung, the application will be closed but the process will still be running in the background. In case of abrupt exits, you need to manually end the process running in the background.

Follow the steps given below:

1. Exit Installer.
2. Open 'Task Manager'. Go to 'Processes' tab and find 'javaw.exe' process.



3. Right-click the 'javaw.exe' process and click 'End Process'. Windows shows a warning message.



4. Click 'Yes' to accept the message.

This will end all the processes initiated by Oracle FLEXCUBE Installer. This action will also delete the log files or the Destination Directory files which the Oracle FLEXCUBE Installer has accessed earlier.

Note that you need to delete the file **chk.flg** from the Installer Source directory before restarting the Installer.

2.5 Installer Configuration

Using Oracle FLEXCUBE Installer, you may install Executable FC_UBS_V.UM_11.3.0. For this, you need to update the file 'installer.properties' in the folder 'config'.

Follow the steps given below:

Open the 'installer.properties' which is available under **SOURCE > Config** folder.

The default mode of Installer is EXEC.

If the installer is to be run in the soft area (for development purposes only), and not in the executable area, you need to change the value of 'SHIPMENT_LOCATION' from 'EXEC' to 'SOFT' and save the file as given below.

For EXEC mode:

```
STREAM=KERNEL  
SHIPMENT_LOCATION=EXEC
```

For SOFT mode:

```
STREAM=KERNEL  
SHIPMENT_LOCATION=SOFT
```



Setting up Oracle FLEXCUBE Installer
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