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Preface

This preface covers the following topics:

- Audience
- Documentation Accessibility
- Related Documents
- Conventions

Audience

This manual is intended for Oracle integration administrators who perform the following tasks:

- Installing and configuring Oracle AS CDC Adapters
- Diagnosing errors
- Using Oracle AS to access CDC transactions

Note: You should understand the fundamentals of Oracle AS, Oracle WebLogic, the UNIX and Microsoft Windows operating system before using this guide to install or administer Oracle AS CDC Adapters.

Note: For the purposes of this version of the Oracle Weblogic Server, Oracle Application Server refers to the Oracle WebLogic Server and OracleAS refers to Oracle WLS.

Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible to all users, including users that are disabled. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Accessibility standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For more information, visit the Oracle Accessibility Program Web site at http://www.oracle.com/accessibility/.
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Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

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Related Documents
For more information, see the following documents in the Oracle Other Product One Release 7.0 documentation set or in the Oracle Other Product Two Release 6.1 documentation set:

- Oracle Application Server Adapter Concepts Guide
- Oracle Application Server Adapter Installation Guide
- Oracle Application Server Adapter Concepts Guide
- Oracle Application Server Containers for J2EE User’s Guide
- Oracle Application Server Containers for J2EE Services Guide
- Oracle Application Server Containers for J2EE Security Guide

Conventions
The following text conventions are used in this document:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td>monospace</td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
Introduction to CDC Adapter Installation

This book describes how to install Oracle Connect, Oracle Application Server CDC Adapters, and Oracle Studio.

This section includes the following topics:

- Overview
- System Requirements

Overview

CDC adapters integrate Oracle Application Server to capture and deliver changes made to legacy and mainframe data sources. These adapters include OracleAS CDC Adapter for Adabas, OracleAS CDC Adapter for DB2, OracleAS CDC Adapter for IMS/DB, OracleAS CDC Adapter for SQL Server, and OracleAS CDC Adapter for VSAM.

Table 1–1 describes the CDC adapters. These adapters are deployed as J2CA 1.5 resource adapters within an Oracle WebLogic container during installation.

<table>
<thead>
<tr>
<th>Adapter Description</th>
<th>Adapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>OracleAS CDC Adapter for Adabas</td>
<td>Captures and delivers changes (such as insert, update, and delete operations) made to data in Adabas data sources.</td>
</tr>
<tr>
<td>OracleAS CDC Adapter for DB2</td>
<td>Captures and delivers changes (such as insert, update, and delete operations) made to data in DB2 data sources.</td>
</tr>
<tr>
<td>OracleAS CDC Adapter for IMS/DB</td>
<td>Captures and delivers changes (such as insert, update, and delete operations) made to data in IMS/DB data sources.</td>
</tr>
<tr>
<td>OracleAS CDC Adapter for SQL Server</td>
<td>Captures and delivers changes (such as insert, update, and delete operations) made to data in SQL Server data sources.</td>
</tr>
<tr>
<td>OracleAS CDC Adapter for VSAM</td>
<td>Captures and delivers changes (such as insert, update, and delete operations) made to data in VSAM data sources.</td>
</tr>
</tbody>
</table>

System Requirements

Before installing OracleAS Adapters for CICS, ensure that your computer meets the following requirements:

- IBM z/OS Hardware and Software Requirements
- UNIX Hardware and Software Requirements
- Windows Hardware and Software Requirements
Oracle Studio Requirements

IBM z/OS Hardware and Software Requirements

This section describes the following requirements for installing Oracle Connect on an IBM z/OS platform:

- Hardware Requirements
- Software Requirements

Hardware Requirements

The following table summarizes the hardware requirements for Oracle Connect.

<table>
<thead>
<tr>
<th>Hardware Component</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>An IBM zSeries computer</td>
</tr>
<tr>
<td>Memory</td>
<td>The minimum requirement is 4 MB for each connection. A connection is defined as a connection to a server process or daemon. The actual memory requirement depends on such things as the size of the database and the number of databases accessed.</td>
</tr>
<tr>
<td>Disk Space (3380 and 3390 disks)</td>
<td>150 cylinders</td>
</tr>
</tbody>
</table>

Software Requirements

The following table summarizes the software requirements for Oracle Connect.

<table>
<thead>
<tr>
<th>Software Component</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>IBM z/OS</td>
</tr>
<tr>
<td>CICS TP Monitor</td>
<td>V4R1 or higher (recommended to use CICS V6R1 or higher)</td>
</tr>
<tr>
<td></td>
<td>CICS EXCI support must be installed and IRCSTRT=YES must be specified in the CICS initialization parameters, so that the IRC (Inter Region Communication) starts.</td>
</tr>
<tr>
<td></td>
<td>You can also set the IRC to open by issuing the following command: CEMT SET IRC OPEN. In addition, the IBM group DFH$EXCI (or an equivalent user-defined group) must be installed in the CICS region using the CEDA RDO facility.</td>
</tr>
<tr>
<td>TCP/IP</td>
<td>The operating system must be able to use the TCP/IP protocol for using the Internet.</td>
</tr>
<tr>
<td>C Runtime Library</td>
<td>The C runtime library has all the standard C runtime programs.</td>
</tr>
<tr>
<td>Oracle Application Server</td>
<td>Oracle Application Server 11g (11.1.1.2).</td>
</tr>
</tbody>
</table>

UNIX Hardware and Software Requirements

This section describes the following requirements for installing Oracle Connect on a UNIX platform:

- Hardware Requirements
- Software Requirements
Hardware Requirements
The following table summarizes the hardware requirements for Oracle Connect on a UNIX platform.

Table 1-4 UNIX Hardware Requirements

<table>
<thead>
<tr>
<th>Hardware Component</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>RedHat Linux</td>
</tr>
<tr>
<td></td>
<td>Linux Suse</td>
</tr>
<tr>
<td></td>
<td>HP-UX</td>
</tr>
<tr>
<td></td>
<td>IBM AIX</td>
</tr>
<tr>
<td></td>
<td>Solaris Operating System (SPARC)</td>
</tr>
<tr>
<td>Disk Space</td>
<td>70 MB free disk space</td>
</tr>
</tbody>
</table>

Software Requirements
The following table summarizes the software requirements for Oracle Connect.

Table 1-5 UNIX Software Requirements

<table>
<thead>
<tr>
<th>Software Component</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>RedHat Linux EL3.0 and 4.0 (32 and 64-bit)</td>
</tr>
<tr>
<td></td>
<td>Linux SUSE SLES 9 and 10 (32 and 64-bit)</td>
</tr>
<tr>
<td></td>
<td>HP-UX PA-RISC 64-bit (11.11, 11.23)</td>
</tr>
<tr>
<td></td>
<td>IBM AIX 5L (64-bit)</td>
</tr>
<tr>
<td></td>
<td>Sun Solaris SPARC 2.8 and 2.9 (32 and 64-bit)</td>
</tr>
<tr>
<td></td>
<td>Sun Solaris SPARC 2.10 (64-bit).</td>
</tr>
<tr>
<td>Oracle Application Server</td>
<td>Oracle Application Server 11g (11.1.1.2)</td>
</tr>
</tbody>
</table>

Windows Hardware and Software Requirements
This section describes the following requirements for installing Oracle Studio and Oracle Connect when OracleAS Adapters for Tuxedo run on a Windows platform:

- Hardware Requirements
- Software Requirements

Hardware Requirements
The following table summarizes the hardware requirements for installing Oracle Connect on Windows.

Table 1-6 Oracle Connect Hardware Requirements for Windows

<table>
<thead>
<tr>
<th>Hardware Component</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>An Intel or 100% compatible computer based on a Pentium processor.</td>
</tr>
<tr>
<td>Memory</td>
<td>256 MB RAM.</td>
</tr>
<tr>
<td>Disk Space</td>
<td>40 MB free disk space.</td>
</tr>
</tbody>
</table>
Software Requirements

The following table summarizes the software requirements when installing Oracle Connect on Windows.

Table 1–7  Oracle Connect Software Requirements for Windows

<table>
<thead>
<tr>
<th>Software Component</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Microsoft Windows 2000 with service pack 3 or higher (32-bit)</td>
</tr>
<tr>
<td></td>
<td>Microsoft Windows XP Professional service pack 2 (32-bit)</td>
</tr>
<tr>
<td></td>
<td>Microsoft Windows Server 2003 service pack 2 (32 and 64-bit).</td>
</tr>
<tr>
<td></td>
<td>Microsoft Windows Server 2008 (32 and 64-bit)</td>
</tr>
<tr>
<td>Microsoft</td>
<td>Network transport protocol software, TCP/IP, included with Microsoft Windows.</td>
</tr>
</tbody>
</table>

Oracle Studio Requirements

The following are the hardware requirements for Oracle Studio:

- Processor: Intel or 100% compatible computer, based on a Pentium processor
- Memory: 256 MB
- Disk space: 120 MB of free disk space

You can install Oracle Studio on the following operating systems:

- Windows 2000 with Service Pack 4 or higher
  - Windows XP Professional with Service Pack 2 or higher
  - Windows Server 2003 with Service Pack 2 or higher
  - Windows Server 2008
  - Windows Vista
- The following Linux operating systems with GTK:
  - Red Hat Linux EL 4
  - Red Hat Linux 5.x
  - Oracle Enterprise Linux 4
  - Oracle Enterprise Linux 5.x
  - Linux SUSE 10
Installing the OracleAS CDC Adapters

This chapter describes how to deploy and install the components necessary to work with an OracleAS CDC Adapter.

To work with the OracleAS CDC Adapters, you must run the installer, deploy the components, and then perform the installation procedures. You should perform these procedures as follows:

1. Run the OracleAS CDC Adapter installer. The installer copies the components to your working computer. See Using the OracleAS CDC Adapters Installer.

2. Deploy the components to the correct computer. Note that the J2CA 1.5 adapter and JDBC are automatically deployed to the correct location. See Deploying the Components.

3. Install Oracle Connect. For information about installing Oracle Connect:
   - See Installing Oracle Connect on an IBM z/OS Series Platform if you are working with the OracleAS CDC Adapter for Adabas, DB2, IMS/DB, or VSAM.
   - See Updating an Existing Oracle Connect Installation on Mainframe Platforms if you have already have an earlier version of Oracle Connect installed on a mainframe computer.
   - See Installing Oracle Connect on a UNIX Platform if you are using a staging area on a UNIX computer.
   - See Installing Oracle Connect on Windows if you are working with the OracleAS CDC Adapter for SQL Server and/or you are using a staging area on a Windows computer.

4. Install Oracle Studio on a Windows or Linux computer. For more information, see Installing Oracle Studio.

Using the OracleAS CDC Adapters Installer

The OracleAS CDC Adapter installer installs or copies the components necessary to work with the CDC adapters. You can use the Oracle AS CDC Adapters Installers for Windows or The OracleAS CDC Adapters Installer for UNIX/Linux. For information on the necessary system requirements, see Windows Hardware and Software Requirements and UNIX Hardware and Software Requirements.

The installer extracts the following:

- The J2CA 1.5 CDC adapter that you are using. For a list of available adapters, see Oracle Application Server CDC Adapters.
Using the OracleAS CDC Adapters Installer

- JDBC.
- Oracle Connect for z/OS, UNIX platforms, and Windows. You can install Oracle Connect on one or more computers and operating systems depending on the adapter you are working with and other requirements of your system.
- Oracle Studio. Oracle Studio is used to configure the CDC adapters you are using. For information on how to use Oracle Studio, see the User Guide for the OracleAS CDC Adapter you are using. Oracle Studio can be installed on Windows or Linux operating systems. For more information, see Installing Oracle Studio. For information on Oracle Studio system requirements, see Oracle Studio Requirements.

For more information, see Running the Installer.

Running the Installer

An installation file is provided by Oracle. Select and open the installation file to run the installation wizard on the machine where the Oracle Application Server is installed. The following table shows the installation file names. Select the correct file for the system you are using.

<table>
<thead>
<tr>
<th>System/Platform</th>
<th>File Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows 32-bit versions¹</td>
<td>Oracle_cdc_windows_11_1_1_2.exe</td>
</tr>
<tr>
<td>UNIX/Linux 32-bit versions²</td>
<td>Oracle_cdc_unix_11_1_1_2.sh</td>
</tr>
</tbody>
</table>

¹ For a list of all supported Windows 32-bit versions, see Windows Hardware and Software Requirements.
² For a list of all supported UNIX/Linux 32-bit versions, see UNIX Hardware and Software Requirements.

Note: To run the installer on a UNIX/Linux computer, you must have a Java home.

After you open the correct file, run the installation wizard and enter the correct information. You must enter information about the following:

- Installation Target
- Destination Directory
- Components

Installation Target

You can use the OracleAS CDC Adapters within the Oracle SOA suite environment or with the Oracle Data Integrator (ODI), or both. You should select:

- SOA if you are working within a SOA environment.
- ODI if you are working with the Oracle Data Integrator (ODI).
- SOA and ODI if you are working with both.
Destination Directory
You must define a directory or folder where the components are extracted. The installer extracts to the correct locations.

For more information on installing the Oracle Application Server, see the Oracle Application Server Installation Guide for the platforms you are working with.

The following describes the information you must enter on this page for the:

- **SOA Environment**
- **ODI**

**SOA Environment**
Enter the Oracle Home ($ORACLE_HOME) directory or folder. The installer extracts the components to the correct locations.

The components are extracted to the following path:

$ORACLE_HOME/soa/thirdparty/cdcAdapters/<component directory>

The component directory is the folder or directory where each component is located. For more information see, Deploying the Components.

**ODI**
Enter the root directory or directory path where you want to extract the components.

The following is an example of the directory or folder path. You can create a path with additional subfolders or subdirectories.

```
root directory/component directory
```

For more information, see Deploying the Components.

**Components**

On this page, select the adapter you are working with. The installer automatically extracts the correct components to the selected folder or directory, including the correct platform installation program for Oracle Connect and Oracle Studio. In addition you must also select the platform for the machine with your staging area.

To select the correct components do the following.

- Select the OracleAS Adapter you are working with.
- Select the platform that you are using for the staging area machine.

*Figure 2–1* shows the Select Components page.
Deploying the Components

Figure 2-1  Select Components

The available CDC adapters are:

- OracleAS CDC Adapter for Adabas
- OracleAS CDC Adapter for DB2
- OracleAS CDC Adapter for IMS/DB
- OracleAS CDC Adapter for SQL Server
- OracleAS CDC Adapter for VSAM

You can select any of following platforms for the staging area:

- HP-UX
- HP-UX Itanium
- IBM-AIX
- SUN-Solaris
- Linux Red Hat
- Windows X86

Deploying the Components

After you run the installer you copy and install the components to the computer where they are used. You install each of the components as follows:

- J2CA 1.5 CDC Adapter
- JDBC
- Oracle Connect
- Oracle Connect
- Adapter Extension Template

J2CA 1.5 CDC Adapter

The J2CA CDC adapters is copied and deployed automatically when you run the installer. It is copied to the following path:
Deploying the Components

Installing the OracleAS CDC Adapters

- For SOA environments:
  $ORACLE_HOME/soa/thirdparty/CDCAdapters/JCA
- For ODI:
  root directory/.../.../JCA

*Note:* You determine the path. Intermediate levels are not required.

**JDBC**

JDBC is copied to the correct location automatically when you run the installer. It is copied to the following path:

- For SOA environments:
  $ORACLE_HOME/soa/thirdparty/CDCAdapters/JDBC
- For ODI:
  root directory/.../.../JDBC

*Note:* You determine the path. Intermediate levels are not required.

**Oracle Connect**

Oracle Connect is copied to the following location:

- For SOA environments:
  $ORACLE_HOME/soa/thirdparty/CDCAdapters/OracleConnect
- For ODI:
  root directory/.../OracleConnect

*Note:* You determine the path. Intermediate levels are not required.

Oracle Connect must be deployed to the computer or computers depending on the OracleAS CDC Adapter that you are using, as follows:

- On the computer with the OracleAS CDC Adapter that you are using:
  - For OracleAS CDC Adapter for Adabas, install Oracle Connect on an IBM z/OS Series Platform.
  - For OracleAS CDC Adapter for DB2, install Oracle Connect on an IBM z/OS Series Platform.
  - For OracleAS CDC Adapter for IMS/DB, install Oracle Connect on an IBM z/OS Series Platform.
  - For OracleAS CDC Adapter for VSAM, install Oracle Connect on an IBM z/OS Series Platform.
  - For OracleAS CDC Adapter for SQL Server, install Oracle Connect on Windows.

- On the computer where that you are using as the staging area for the change data capture. For a staging area, you can install Oracle Connect on Windows or on a UNIX Platform.
Oracle Studio

When you run the installer, the Oracle Studio installation file is copied to the following location.

- For SOA environments:
  
  $ORACLE_HOME/soa/thirdparty/CDCAdapters/OracleStudio

- For ODI:
  
  root directory/.../.../OracleStudio

  Note: You determine the path. Intermediate levels are not required.

Install Oracle Studio on a Windows computer or a Linux platform computer. For more information, see Installing Oracle Studio.

Adapter Extension Template

The Adapter Extension Template is copied to the following location:

$ORACLE_HOME/soa/thirdparty/CDCAdapters/Adapter Type

Verifying the Resource Adapter Version

After running the installer, you can verify the version of the resource adapter. To verify the version, perform the following:

1. Change the directory as follows:
   
   - For SOA environments:
     
     Change the directory to:
     
     $ORACLE_HOME/soa/thirdparty/CDCAdapters/JCA
   
   - For ODI:
     
     Change the directory to:
     
     <installer target directory>/JCA


Installing Oracle Connect on an IBM z/OS Series Platform

This section explains how to install Oracle Connect. This section includes the following:

- Installation Worksheet
- Preinstallation Instructions
- Importing the Installation Kit
- Installation Instructions
- Postinstallation Instructions

Note: If you have an Oracle Connect back-end adapter or CDC adapter already installed on the IBM z/OS platform, then follow the instructions described in Updating an Existing Oracle Connect Installation on Mainframe Platforms on page 2-17.
Installation Worksheet

Verify that you have all the information detailed in the following installation worksheets, so you can refer to it during the configuration process.

Table 2-2 Preinstallation Information

<table>
<thead>
<tr>
<th>Topic</th>
<th>Required Information</th>
<th>Default</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>Operating system</td>
<td>-</td>
<td>z/OS</td>
</tr>
<tr>
<td></td>
<td>Disk space</td>
<td>-</td>
<td>150 cylinders</td>
</tr>
<tr>
<td></td>
<td>Memory</td>
<td>-</td>
<td>The minimum requirement is 4MB for each connection. A connection is defined as a connection to a server process or daemon. The actual memory requirement depends on such things as the size of the database and the number of databases accessed.</td>
</tr>
<tr>
<td></td>
<td>Installation high-level qualifier</td>
<td>ac1112</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Volume</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Unit</td>
<td>3390</td>
<td>SMS only: unit where SMS resides.</td>
</tr>
<tr>
<td></td>
<td>Output class</td>
<td>A</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>JCL job card</td>
<td>-</td>
<td>An optional card (up to 6 lines) to replace the prefix job (entered as it appears in the job)</td>
</tr>
<tr>
<td></td>
<td>ISPF load library name</td>
<td>ISP.SISPLOAD</td>
<td>-</td>
</tr>
</tbody>
</table>

| CICS                       | CICS EXCI load library name  | CICS.CICS.SDFHEXCI | - |

Table 2-3 Required Permissions

Permission to define an APF-authorized library
Permission to write to an active proclib, such as user.proclib
Permission to read the CICS EXCI library
Permission to update the security manager, such as RACF
Optionally, permission to specify an output class for Oracle Connect output

Table 2-4 Installation Checklist

<table>
<thead>
<tr>
<th>Step</th>
<th>Comment/Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>tso profile noprefix</td>
<td>Ensures that the user name is not used as part of the data set name allocated in the next steps</td>
</tr>
<tr>
<td>Allocate dataset: {HLQ}.TRANSMIT.KIT</td>
<td>130 tracks (3390), format=FB, record length=80, block size=3120</td>
</tr>
<tr>
<td>Allocate dataset: {HLQ}.TRANSMIT.LOAD</td>
<td>500 tracks (3390), format=FB, record length=80, block size=3120</td>
</tr>
<tr>
<td>FTP files to z/OS</td>
<td>FTP using binary mode</td>
</tr>
<tr>
<td>RECEIVE INDSNAME([HLQ].TRANSMIT.KIT)</td>
<td>-</td>
</tr>
</tbody>
</table>
Preinstallation Instructions

Before starting the installation, ensure that the following information is available:

- The output class for the installation output if you do not want to use the default value, which is A.
- The unit where SMS resides. If you use SMS to manage all data sets, then you cannot provide unit and volume information.

Before starting the installation, ensure that you have the following permissions:

- Permission to define an APF-authorized library.
- Permission to write to an active proclib, such as user.proclib.
- Permission to read the CICS EXCI library.
- Permission to update the security manager, such as RACF

Note: Optionally, ensure that you have permission to specify an output class for Oracle Connect output. Assigning a device which is set on HOLD prevents the loss of log information when Oracle Connect started tasks finish.

Oracle Connect for the IBM z/OS platform is contained in the following data sets:

- ac11112.TRANSMIT.KIT
- ac11112.TRANSMIT.LOAD

Importing the Installation Kit

Perform the following steps on the Mainframe:

1. Run the following command:
   
   tso profile noprefix
   
   The user name is not used as part of the data set name. On some systems this is the default.

2. Allocate data sets with the following space for each of these files:
   
   - nnn.TRANSMIT.KIT = 130 tracks (3380 and 3390 disks)
   - nnn.TRANSMIT.LOAD = 500 tracks (3380 and 3390 disks)

   For each data set: RECFM=FB and LRECL=80. The block size is 3120.

   Where nnn represents the high-level qualifier you want to assign for the Oracle Connect installation. Assign the high-level qualifier you specified in the preinstallation procedure. The default value is ac11112.
3. Using FTP, copy ac11112.TRANSMIT.KIT and ac11112.TRANSMIT.LOAD in the binary mode to the mainframe.

Transferring the Kit to the Data Set
You must move the contents of the kit to the mainframe computer in the data set that you allocated. When you copy the contents of the kit, you see that the contents are now used.

Perform the following steps to copy the Oracle Connect installation kit contents to the mainframe:

1. Extract the compressed file to a folder on a computer running Microsoft Windows.
2. Open the Command console on the Windows computer.
3. Type FTP and the name of the mainframe computer where you want to connect. This creates an FTP connection to the mainframe machine. You may have to enter a user name and password to use the machine.
4. Type bin to transfer binary data.
5. Enter the following command to transfer the data from the .KIT file to the mainframe computer:
   
   put ac11112.transmit.kit 'nnn.transmit.kit' [replace]
   
   where:
   - ac11112.transmit.kit is the name of your installation file.
   - replace ensures that any data on the volume where the kit is installed is overwritten.

6. Enter the following command to transfer the data from the .LOAD file to the mainframe computer:
   
   put ac11112.transmit.load 'nnn.transmit.load' [replace]

7. Close the FTP connection.

Installation Instructions
Perform the following steps to install Oracle Connect:

1. Run the following command at the TSO prompt:
   
   RECEIVE INDSNAME('nnn.TRANSMIT.KIT')

   **Note:** You can use multiple high-level qualifiers, such as ACME.DEV.ac11112, with the following conditions:
   - The total length must be less than or equal to twenty characters.
   - The words transmit and buildkit cannot be used as high-level qualifiers.

2. Enter the following when prompted for the restore parameters:
   
   da('nnn.TRANSMIT.LIB') [UNIT(unit) VOLUME(volume)]

   This extracts the nnn.TRANSMIT.LIB library from the nnn.TRANSMIT.KIT kit to the specified unit and volume. If a unit and volume are not specified then the library is extracted to the current unit and volume.
3. In the Data Set List Utility screen, type the name of the high-level qualifier on the Dname Level line. This returns a list of the files. Verify that the \texttt{nnn.TRANSMIT.LIB} file was created.

4. In the Command column next to the \texttt{nnn.TRANSMIT.LIB}, type \texttt{M}.

5. Execute the \texttt{PREPARE} member of the \texttt{nnn.TRANSMIT.LIB} library:

   \begin{verbatim}
   ex PREPARE
   \end{verbatim}

   Follow the instructions in the Response column in the following table for each entry in the Screen column.

<table>
<thead>
<tr>
<th>Screen</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>DO YOU WANT TO USE SMS MANAGED STORAGE FOR THIS INSTALLATION Y/N [N] :</td>
<td>To manage the storage using SMS, then answer Y, otherwise answer N.</td>
</tr>
<tr>
<td>ENTER THE STORCLASS FOR INSTALLATION TEMP DATASETS [ ] :</td>
<td>This prompt is displayed only if SMS is used to manage the installation (you answered Y to the first prompt). Enter the storage class</td>
</tr>
<tr>
<td>ENTER THE UNIT NAME FOR INSTALLATION TEMP DATASETS [3390] :</td>
<td>If a storage class is not specified, then enter the unit name for temporary data sets used during the installation procedure</td>
</tr>
<tr>
<td>ENTER THE VOLUME NAME FOR INSTALLATION TEMP DATASETS :</td>
<td>This prompt is displayed only if SMS is not used to manage the installation (you answered N to the first prompt). The volume name for temporary data sets used during the installation procedure</td>
</tr>
<tr>
<td>ENTER THE OUTPUT CLASS FOR INSTALLATION OUTPUT [A] :</td>
<td>Enter the output class only if you do not want the default class used (the default is A)</td>
</tr>
<tr>
<td>DO YOU WANT TO USE THE DEFAULT JOB CARD Y/N [Y]</td>
<td>A job card is displayed. To use a replacement card, then it must be entered as it appears in the job. You can enter up to six lines. Enter a blank card to end input. If you do not enter a card, then the Oracle Connect default card is used.</td>
</tr>
<tr>
<td>DO YOU WANT TO PERFORM A MANUAL (M) OR AUTOMATIC (A) INSTALLATION [A] :</td>
<td>To review the JCL used to install Oracle Connect, before it is submitted, then respond M for a manual installation.</td>
</tr>
<tr>
<td>PLEASE REVIEW AND SUBMIT FOR EXECUTION THE HLQ.TRANSMIT.LIB(INSTJO)</td>
<td>This prompt is displayed only if a manual installation is requested (you answered M to the previous prompt).</td>
</tr>
</tbody>
</table>

The following libraries are generated:

\begin{verbatim}
nnn.BUILDKIT.LOAD
nnn.BUILDKIT.SRC
nnn.BUILDKIT.GENDEMO
\end{verbatim}

Where \texttt{nnn} is the high-level qualifiers you assigned in step 1.

6. In the \texttt{nnn.BUILDKIT.SRC} library, run the \texttt{NAVINST} member, as shown:

   \begin{verbatim}
   ex NAVINST
   \end{verbatim}

   Follow the instructions in the Response column in the following table for each entry in the Screen column.
7. Continue with the Data Source Configuration.

Data Source Configuration Instructions

Install the data source according to the OracleAS CDC adapter you are using:
■ Installing OracleAS Adapter for Adabas
■ Installaing OracleAS Adapter for DB2
■ Installaing OracleAS CDC Adapter for IMS/DB
■ Installing OracleAS CDC Adapter for VSAM

**Installing OracleAS Adapter for Adabas**

In the `nnn.BUILDKIT.SRC` library, execute the `ADADB` member:

```
ex ADABAS
```

Follow the instructions in the Response column for each entry in the Screen column.

**Table 2–7 Adabas Adapter Installation Prompts and Responses**

<table>
<thead>
<tr>
<th>Screen</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTER THE ADABAS SVC NUMBER</td>
<td>Enter the Adabas SVC number for your Adbas system</td>
</tr>
<tr>
<td>ENTER THE ADABAS DATABASE NUMBER</td>
<td>Enter the Adabas database number for your Adbas system</td>
</tr>
<tr>
<td>ENTER THE ADABAS LOAD LIBRARY NAME</td>
<td>Enter the Adabas Load Library name for your Adbas system</td>
</tr>
<tr>
<td>ENTER THE UNIT FOR ADABAS LOAD LIBRARY</td>
<td>Enter the Adabas Load Library unity for your Adbas system</td>
</tr>
<tr>
<td>YOUR ADABAS SVC IS:</td>
<td>This is a summary of the Adabas questions. Check the summary to be sure all is correct. You can select:</td>
</tr>
<tr>
<td>THE DATABASE NUMBER IS:</td>
<td>■ Yes, to use the Adabas database as configured</td>
</tr>
<tr>
<td>THE ADABAS LOAD LIBRARY NAME IS:</td>
<td>■ No, to not use the Adabas database</td>
</tr>
<tr>
<td>THE ADABAS LOAD LIBRARY UNIT IS:</td>
<td>■ Quit, to leave the ADABAS process</td>
</tr>
<tr>
<td>PLEASE CONFIRM (YES/NO/QUIT):YES:</td>
<td></td>
</tr>
</tbody>
</table>

The installation is completed. All JCL jobs and REXX procedures are written to the `INSTROOT.USERLIB` library. `INSTROOT` is the high-level qualifier for the installation.

**Installallaing OracleAS Adapter for DB2**

In the `nnn.BUILDKIT.SRC` library, execute the `DB2DB` member:

```
ex DB2
```

Follow the instructions in the Response column for each entry in the Screen column.

**Table 2–8 DB2Adapter Installation Prompts and Responses**

<table>
<thead>
<tr>
<th>Screen</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTER THE DB2 HLQ</td>
<td>Enter the HLQ where DB2 is installed.</td>
</tr>
<tr>
<td>ENTER THE DB2 SUBSYSTEM NAME</td>
<td>Enter the IDB2 subsystem.</td>
</tr>
<tr>
<td>THE DATABASE DB2 RESIDES ON THIS MACHINE</td>
<td>This is a summary of the DB2 questions. Check the summary to be sure all is correct.</td>
</tr>
<tr>
<td>THE DB2 SUBSYSTEM NAME IS:</td>
<td>■ Yes, to use the DB2 database as configured</td>
</tr>
<tr>
<td>THE DB2 SUBSYSTEM NAME IS:</td>
<td>■ No, to not use the DB2 database</td>
</tr>
<tr>
<td>PLEASE CONFIRM (YES/NO/QUIT):YES:</td>
<td>■ Quit, to leave the DB2 process</td>
</tr>
</tbody>
</table>

The installation is completed. All JCL jobs and REXX procedures are written to the `INSTROOT.USERLIB` library. `INSTROOT` is the high-level qualifier for the installation.
Installing Oracle Connect on an IBM z/OS Series Platform

Installing OracleAS CDC Adapter for VSAM

In the nnn.BUILDKIT.SRC library, run the VSAM member:

ex VSAM

Follow the instructions in the Response column in the following table for each entry in the Screen column.

<table>
<thead>
<tr>
<th>Screen</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>DO YOU WANT ORACLE CONNECT FOR LEGACY ADAPTER TO WORK WITH VSAM UNDER CICS (YES/NO) [NO]:</td>
<td>Answer YES to this prompt to access VSAM data under CICS.</td>
</tr>
<tr>
<td>ENTER THE CICS EXCI LOAD LIBRARY NAME [CICSTS13.CICS.SDFHEXCI]:</td>
<td>If you responded YES to working with VSAM under CICS, then enter the CICS EXCI load library name only if you do not want the default.</td>
</tr>
<tr>
<td>PLEASE CONFIRM (YES/NO/QUIT) [YES]:</td>
<td>If you responded YES to working with VSAM under CICS, then confirm the entered details.</td>
</tr>
<tr>
<td>ENTER THE ISPF LOAD LIBRARY NAME [ISP.SISPLOAD]:</td>
<td>Enter the ISPF load library name only if you do not want the default.</td>
</tr>
<tr>
<td>PLEASE CONFIRM (YES/NO/QUIT) [YES]:</td>
<td>Confirm the entered details</td>
</tr>
<tr>
<td>ENTER THE OUTPUT CLASS FOR INSTALLATION OUTPUT [A]:</td>
<td>Enter the output class for Oracle Connect output. Assigning a device which is set on HOLD prevents the loss of log information when the Oracle Connect started tasks finish (the default is A).</td>
</tr>
<tr>
<td>DO YOU WANT TO USE THE DEFAULT JOB CARD Y/N [Y]</td>
<td>A job card is displayed. To use a replacement card, then it must be entered as it appears in the job. You can enter up to six lines. Enter a blank card to end input. If you do not enter a card, then the Oracle Connect default card is used.</td>
</tr>
</tbody>
</table>

The installation is completed. All JCL jobs and REXX procedures are written to the INSTROOT.USERLIB library. INSTROOT is the high-level qualifier for the installation.

Installing OracleAS CDC Adapter for IMS/DB

In the nnn.BUILDKIT.SRC library, execute the IMSDB member:

ex IMSDB

Follow the instructions in the Response column in for each entry in the Screen column.

<table>
<thead>
<tr>
<th>Screen</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTER DBD LIBRARY NAME</td>
<td>Enter the IMS DBD Library name for IMS on your system</td>
</tr>
<tr>
<td>ENTER PSB LIBRARY NAME</td>
<td>Enter the IMS PSB Library name for IMS on your system</td>
</tr>
<tr>
<td>ENTER RES LIBRARY NAME</td>
<td>Enter the IMS RES Library name for IMS on your system</td>
</tr>
<tr>
<td>ENTER PROC LIBRARY NAME</td>
<td>Enter the IMS PROC Library name for IMS on your system</td>
</tr>
<tr>
<td>ENTER PGM LIBRARY NAME</td>
<td>Enter the IMS PGM Library name for IMS on your system</td>
</tr>
<tr>
<td>ENTER YOUR PSB NAME</td>
<td>Enter the name of the PSB file with the name of your IMS database.</td>
</tr>
</tbody>
</table>
The installation is completed. All JCL jobs and REXX procedures are written to the `INSTROOT.USERLIB` library. `INSTROOT` is the high-level qualifier for the installation.

### Postinstallation Instructions

The following postinstallation tasks must be done to work with Oracle Connect:

- **Postinstallation Procedures**
- **Starting the Daemon**
- **Setting Up Oracle Connect for Reentrancy**

#### Postinstallation Procedures

Perform the following procedures after completing the installation, to configure Oracle Connect.

- Allocate a data set for `INSTROOT.DEF.BRANDBIN`, using 1 track and with `RECFM=VB` and `LRECL=256`. The block size is 6233.

  `INSTROOT` is the high-level qualifier where Oracle Connect is installed.

- Using FTP, copy the BRANDBIN file, in the binary mode, from the Oracle Connect\CICS Legacy Adapter directory to the mainframe, to `INSTROOT.DEF.BRANDBIN`.

- Define the `LOADAUT` library as an APF-authorized library.
Installing Oracle Connect on an IBM z/OS Series Platform

Installing the OracleAS CDC Adapters

Move the `INSTROOT.USERLIB(ATTDAAEMN)` and `INSTROOT.USERLIB(ATTSRVR)` members to any active proclib, such as `user.proclib`. The ATTDAAEMN and ATTSRVR members are run as started tasks.

If you decide to change the name of the ATTSRVR member when you move it to a general high-level qualifier, then change the name specified in the `StartupScript` parameter in the daemon configuration to the new name:

- Run `INSTROOT.USERLIB(NAVCMD)` and enter `EDIT DAEMON IRPCDINI` at the prompt.
- Change the `startupScript` parameter from `ATTSRVR` to the new name for the server:

  ```xml
  <Workspace name="Navigator"
    startupScript="NEW_NAME"
    serverMode="reusable"
    ...
  />
  ```

- Exit and save the changes.

- Change the following line in the ATTDAAEMN script to include the IP address and port of the IBM z/OS platform.

  For example, before:

  ```
  // PARM='-B START IRPCDINI'
  ```

  After:

  ```
  // PARM='-B -L ip_address:2551 START IRPCDINI'
  ```

  Where `ip_address` is ip address of the computer, 2551 is the default port for starting the daemon and IRPCDINI is the default daemon configuration.

- The ATTDAAEMN and ATTSRVR started tasks need permission to use an Open Edition TCP/IP stack. The owner must be a user with OMVS segment defined and OMVS UID=0000000000.

- In the security manager, such as RACF, define ATTDAAEMN and ATTSRVR with a started task class and a general profile that enables the following:
  - Permission to issue master console commands.
  - START authority for the ATTSRVR job.

---

**Note:** To define a DSN as APF-authorized, in the SDSF screen enter the following command:

```
*/setprog apf,add,dsn=INSTROOT.loadaut,volume=vol002'
```

Where `vol002` is the volume where you installed Oracle Connect and `INSTROOT` is the high-level qualifier where Oracle Connect is installed.

If the site uses SMS, then when defining APF-authorization in the SDSF screen, enter the following command:

```
*/setprog apf,add,dsn=INSTROOT.loadaut,SMS'
```

Ensure that the library is APF-authorized, even after an IPL (restart) of the computer.

---
Installing Oracle Connect on an IBM z/OS Series Platform

- Access to an Open z/OS segment, which defines access to TCP/IP OA sockets.
- `ALTER` authority on data sets under `INSTROOT` to access to read, write, allocate, and delete data sets under `INSTROOT`.

The installation includes a PS, `INSTROOT.DEF.GBLPARMS`, which contains global environment information. This PS is read at startup and the correct software version is used, based on the details provided in the startup task.

If you change the location of this member, then you must also change the relevant cards in the following jobs to the new locations:

- `ATTSRV`: located in an active proclib, such as `user.proclib`
- `ATTDAEMN`: located in an active proclib, such as `user.proclib`
- `NAVSQL`: located in `INSTROOT.USERLIB`

The input during the installation procedure is written to `nnn.BUILDKIT.SRC(PARS)`. You can use this file to provide the same inputs if you rerun the installation, where `nnn` is the high-level qualifier you assign for the installation.

For information about specifying Oracle Connect as the service using port 2551 in the TCP/IP network services file, consult TCP/IP documentation.

Starting the Daemon

Activate `INSTROOT.USERLIB(ATTTDAEMN)` as a started task to invoke the daemon. For example, in the SDSF screen enter the following:

```
'/s ATTTDAEMN'
```

Where `INSTROOT` is the high-level qualifier where Oracle Connect is installed.

To submit the daemon as a job, uncomment the first two lines of the `ATTTDAEMN` JCL, change the PARM line as described earlier, and run the job using the subcommand. The `ATTTDAEMN` JCL is similar to the following:

```
//*ATTTDAEMN JOB 'RR','TTT',MSGLEVEL=(1,1),CLASS=A,  
//* MSGCLASS=A,NOTIFY=&SYSUID,REGION=8M  
//* STEP1 EXEC PGM=IRPCD,  
//* PARM='-B  START IRPCDINI'  
//* PARM='-B -L :8883 START'  
//* STEPLIB DD DSN=INSTROOT.LOADAUT,DISP=SHR  
//* SYSPRINT DD SYSOUT=A  
//* GBLPARMS DD DSN=INSTROOT.DEF.GBLPARMS,DISP=SHR  
//* EXEC PGM=IRPCD,COND=((1,=STEP1),(2,=STEP1)),  
//* PARM='''ATTTDAEMN  START ''INSTROOT.DEF.IRPCDINI'''  
//* STEPLIB DD DSN=INSTROOT.LOADAUT,DISP=SHR  
//* SYSPRINT DD SYSOUT=A  
//* GBLPARMS DD DSN=INSTROOT.DEF.GBLPARMS,DISP=SHR  
//* SYSDUMP DD DUMMY
```

Setting Up Oracle Connect for Reentrancy

All Oracle Connect load modules are reentrant to enable subtasking. Therefore, move `INSTROOT.LOAD` to the Link Pack Area (LPA).

Where `INSTROOT` is the high-level qualifier where Oracle Connect is installed.

Using the LPA reduces real storage usage (because everyone shares the LPA copy) and fetch time.
If you are using an OracleAS Legacy adapter, perform the appropriate procedure below to upgrade the existing Oracle Connect installation.

- Updating an Existing Oracle Connect Installation with CICS
- Updating an Existing Oracle Connect Installation with VSAM
- Updating an Existing Oracle Connect Installation with IMS/TM
- Updating an Existing Oracle Connect Installation with IMS/DB

### Updating an Existing Oracle Connect Installation with CICS

Verify that you have all the information detailed in the following installation worksheets, so you can refer to it during the configuration process.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Required Information</th>
<th>Default</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>CICS</td>
<td>CICS EXCI load library name</td>
<td>CICS.CICS.SDFHEXCI</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Table 2–12  Required Permissions

<table>
<thead>
<tr>
<th>Permission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permission to read the CICS EXCI library</td>
</tr>
</tbody>
</table>

In the `nnn.BUILDKIT.SRC` library, run the `CICS` member, as shown:

`ex CICS`

Follow the instructions in the Response column in the following table for each entry in the Screen column.
The installation is completed. All JCL jobs and REXX procedures are written to the `INSTROOT.USERLIB` library. `INSTROOT` is the high-level qualifier for the installation.

After completing the installation, perform postinstallation tasks, as described in Postinstallation Instructions on page 2-14, as required.

### Updating an Existing Oracle Connect Installation with VSAM

Verify that you have all the information detailed in the following installation worksheets, so you can refer to it during the configuration process.

#### Table 2–13 CICS Adapter Installation Prompts and Responses

<table>
<thead>
<tr>
<th>Screen</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTER THE CICS EXCI LOAD LIBRARY NAME [CICSTS13.CICS.SDFHEXCI] :</td>
<td>Enter the CICS EXCI load library name only if you do not want the default.</td>
</tr>
<tr>
<td>PLEASE CONFIRM (YES/NO/QUIT) [YES] :</td>
<td>Confirm the entered details</td>
</tr>
<tr>
<td>ENTER THE ISPF LOAD LIBRARY NAME [ISP.SISPLOAD] :</td>
<td>Enter the ISPF load library name only if you do not want the default.</td>
</tr>
<tr>
<td>PLEASE CONFIRM (YES/NO/QUIT) [YES] :</td>
<td>Confirm the entered details</td>
</tr>
<tr>
<td>ENTER THE OUTPUT CLASS FOR INSTALLATION OUTPUT [A] :</td>
<td>Enter the output class for Oracle Connect output. Assigning a device which is set on <code>HOLD</code> prevents the loss of log information when the Oracle Connect started tasks finish (the default is A).</td>
</tr>
<tr>
<td>DO YOU WANT TO USE THE DEFAULT JOB CARD Y/N [Y]</td>
<td>A job card is displayed. To use a replacement card, then it must be entered as it appears in the job. You can enter up to six lines. Enter a blank card to end input. If you do not enter a card, then the Oracle Connect default card is used.</td>
</tr>
</tbody>
</table>

The installation is completed. All JCL jobs and REXX procedures are written to the `INSTROOT.USERLIB` library. `INSTROOT` is the high-level qualifier for the installation.

After completing the installation, perform postinstallation tasks, as described in Postinstallation Instructions on page 2-14, as required.

### Updating an Existing Oracle Connect Installation with VSAM

Verify that you have all the information detailed in the following installation worksheets, so you can refer to it during the configuration process.

#### Table 2–14 Preinstallation Information

<table>
<thead>
<tr>
<th>Topic</th>
<th>Required Information</th>
<th>Default</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>CICS</td>
<td>CICS EXCI load library name</td>
<td>CICS.CICS.SDFHEXCI</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Table 2–15 Required Permissions

<table>
<thead>
<tr>
<th>Permission</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permission to read the CICS EXCI library</td>
<td></td>
</tr>
</tbody>
</table>

In the `nnn.BUILDKIT.SRC` library, run the VSAM member:

```
ex VSAM
```

Follow the instructions in the Response column in the following table for each entry in the Screen column.
The installation is completed. All JCL jobs and REXX procedures are written to the INSTROOT.USERLIB library. INSTROOT is the high-level qualifier for the installation.

After completing the installation, perform postinstallation tasks, as described in Postinstallation Instructions on page 2-14, as required.

Updating an Existing Oracle Connect Installation with IMS/TM

Verify that you have all the information detailed in the following installation worksheets. You can refer to it during the configuration process.

<table>
<thead>
<tr>
<th>Table 2–16 VSAM Adapter Installation Prompts and Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Screen</strong></td>
</tr>
<tr>
<td>DO YOU WANT ORACLE CONNECT FOR LEGACY ADAPTER TO WORK WITH VSAM UNDER CICS (YES/NO) [NO]:</td>
</tr>
<tr>
<td>ENTER THE CICS EXCI LOAD LIBRARY NAME [CICSTS13.CICS.SDFHEXCI]:</td>
</tr>
<tr>
<td>PLEASE CONFIRM (YES/NO/QUIT) [YES]:</td>
</tr>
<tr>
<td>ENTER THE ISPF LOAD LIBRARY NAME [ISP.SISPLOAD]:</td>
</tr>
<tr>
<td>PLEASE CONFIRM (YES/NO/QUIT) [YES]:</td>
</tr>
<tr>
<td>ENTER THE OUTPUT CLASS FOR INSTALLATION OUTPUT [A]:</td>
</tr>
<tr>
<td>DO YOU WANT TO USE THE DEFAULT JOB CARD Y/N [Y]</td>
</tr>
</tbody>
</table>

The installation is completed. All JCL jobs and REXX procedures are written to the INSTROOT.USERLIB library. INSTROOT is the high-level qualifier for the installation.

After completing the installation, perform postinstallation tasks, as described in Postinstallation Instructions on page 2-14, as required.

Updating an Existing Oracle Connect Installation with IMS/TM

Verify that you have all the information detailed in the following installation worksheets. You can refer to it during the configuration process.

Table 2–17 Preinstallation Information

<table>
<thead>
<tr>
<th>Topic</th>
<th>Required Information</th>
<th>Default</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>CICS</td>
<td>CICS EXCI load library name</td>
<td>CICS.CICS.SDFHEXCI</td>
<td></td>
</tr>
</tbody>
</table>

Table 2–18 Required Permissions

<table>
<thead>
<tr>
<th>Permission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permission to read the CICS EXCI library</td>
</tr>
</tbody>
</table>

In the nnn.BUILDKIT.SRC library, run the IMSTM member:

ex IMSTM

Follow the instructions in the Response column in the following table for each entry in the Screen column.
The installation is completed. All JCL jobs and REXX procedures are written to the \texttt{INSTROOT.USERLIB} library. \texttt{INSTROOT} is the high-level qualifier for the installation.

After completing the installation, perform postinstallation tasks, as described in Postinstallation Instructions on page 2-14.

### Updating an Existing Oracle Connect Installation with IMS/DB

Verify that you have all the information detailed in the following installation worksheets, so you can refer to it during the configuration process.

#### Table 2–19 IMS/TM Adapter Installation Prompts and Responses

<table>
<thead>
<tr>
<th>Screen</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTER THE ISPF LOAD LIBRARY NAME [ISP.SISPLOAD]:</td>
<td>Enter the ISPF load library name only if you do not want the default.</td>
</tr>
<tr>
<td>PLEASE CONFIRM (YES/NO/QUIT) [YES]:</td>
<td>Confirm the entered details</td>
</tr>
<tr>
<td>ENTER THE OUTPUT CLASS FOR INSTALLATION OUTPUT [A]:</td>
<td>Enter the output class for Oracle Connect output. Assigning a device that is set on \texttt{HOLD} prevents the loss of log information when the Oracle Connect started tasks finish (the default is A).</td>
</tr>
<tr>
<td>DO YOU WANT TO USE THE DEFAULT JOB CARD Y/N [Y]</td>
<td>A job card is displayed. To use a replacement card, then it must be entered as it appears in the job. You can enter up to six lines. Enter a blank card to end input. If you do not enter a card, then the Oracle Connect default card is used.</td>
</tr>
</tbody>
</table>

The installation is completed. All JCL jobs and REXX procedures are written to the \texttt{INSTROOT.USERLIB} library. \texttt{INSTROOT} is the high-level qualifier for the installation.

After completing the installation, perform postinstallation tasks, as described in Postinstallation Instructions on page 2-14.

### Updating an Existing Oracle Connect Installation with IMS/DB

Verify that you have all the information detailed in the following installation worksheets, so you can refer to it during the configuration process.

#### Table 2–20 Preinstallation Information

<table>
<thead>
<tr>
<th>Topic</th>
<th>Required Information</th>
<th>Default</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>CICS</td>
<td>CICS EXCI load library name</td>
<td>CICS.CICS.SDFHEXCI</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Table 2–21 Required Permissions

<table>
<thead>
<tr>
<th>Permission</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permission to read the CICS EXCI library</td>
<td></td>
</tr>
</tbody>
</table>

In the \texttt{nnn.BUILDKIT.SRC} library, execute the \texttt{IMSDB} member:

```
ex IMSDB
```

Follow the instructions in the Response column in for each entry in the Screen column.

#### Table 2–22 IMS/DB Adapter Installation Prompts and Responses

<table>
<thead>
<tr>
<th>Screen</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTER DBD LIBRARY NAME</td>
<td>Enter the IMS DBD Library name for IMS on your system</td>
</tr>
<tr>
<td>ENTER PSB LIBRARY NAME</td>
<td>Enter the IMS PSB Library name for IMS on your system</td>
</tr>
<tr>
<td>ENTER RES LIBRARY NAME</td>
<td>Enter the IMS RES Library name for IMS on your system</td>
</tr>
<tr>
<td>ENTER PROC LIBRARY NAME</td>
<td>Enter the IMS PROC Library name for IMS on your system</td>
</tr>
<tr>
<td>ENTER PGM LIBRARY NAME</td>
<td>Enter the IMS PGM Library name for IMS on your system</td>
</tr>
<tr>
<td>ENTER YOUR PSB NAME</td>
<td>Enter the name of the PSB file with the name of your IMS database.</td>
</tr>
</tbody>
</table>
Installing Oracle Connect on a UNIX Platform

Installing the OracleAS CDC Adapters

2-21

Table 2–22 (Cont.) IMS/DB Adapter Installation Prompts and Responses

<table>
<thead>
<tr>
<th>Screen</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>YOUR DBDLIB IS:</td>
<td>This is a summary of the IMS questions. Check the summary to be sure all is correct. You can select:</td>
</tr>
<tr>
<td>YOUR PSBLIB IS:</td>
<td>n. Yes, to use the IMS database as configured</td>
</tr>
<tr>
<td>YOUR RESLIB IS:</td>
<td>n. No, to not use the IMS database</td>
</tr>
<tr>
<td>YOUR PROCLIB IS:</td>
<td>n. Quit, to leave the CUST process</td>
</tr>
<tr>
<td>YOUR PGMLIB IS:</td>
<td>PLEASE CONFIRM (YES/NO/QUIT) :YES :</td>
</tr>
<tr>
<td>YOUR PSBNAME IS:</td>
<td>DO YOU WANT ORACLE CONNECT TO WORK WITH IMS/DB UNDER CICS</td>
</tr>
<tr>
<td>[CICSTS13.CICS.SDFHEXCI]:</td>
<td>Enter the CICS EXCI load library name only if you do not want the default</td>
</tr>
<tr>
<td>PLEASE CONFIRM (YES/NO/QUIT) [YES]:</td>
<td>Confirm the entered details</td>
</tr>
</tbody>
</table>

The installation is completed. All JCL jobs and REXX procedures are written to the INSTROOT.USERLIB library. INSTROOT is the high-level qualifier for the installation.

After completing the installation, perform postinstallation tasks, as described in Postinstallation Instructions on page 2-14, as required.

Installing Oracle Connect on a UNIX Platform

This section explains how to install Oracle Connect on a UNIX platform. This section includes the following:

- Preinstallation Tasks
- Backing up the Original Installation (Upgrade Only)
- Installing Oracle Connect
- Installation Tasks
- Post Installation Tasks

Preinstallation Tasks

Before starting the installation procedure, ensure that you have the following information is available:

- The root directory where you want to install Oracle Connect.

Notes: The root directory cannot be a system root directory, /var or /tmp.

- The account name where Oracle Connect runs.
- Whether the installation source media is removable media or a disk archive file.

If you are installing from the removable media that is not a default device in the system, you must know the media device name (such as /dev/rmt/0m). See the operating system manuals or ask the system administrator to find out the device name for the site.
If you are installing from the disk archive file, you must know the name of the Oracle Connect disk archive file (such as /tmp/nav.2.0.tar).

- The shell being used: C-shell Korn-shell, or Bourne-shell. The installation creates a startup file according to the indicated shell.

When running the installation below, use the following as the <filename>:

- For RedHat Linux: OCL11112-linuxrh.tar.Z
- For Linux Suse: OCL11112-linuxsuse.tar.Z
- For HP-UX: OCL11112-hpux.tar.Z
- For IBM AIX: OCL11112-ibmaix.tar.Z
- For Solaris Operating System (SPARC): OCL11112-sunsol2.8.tar.Z

**Back up the Original Installation (Upgrade Only)**

To upgrade Oracle Connect computers, you must prevent all users from running the server during the upgrade procedure and ensure NAVROOT is defined to the system. This enables the installation procedure to identify that an existing version exists.

Perform the following to back up Oracle Connect before installing the new version.

1. Save a copy of the server definitions by running the following command:

   NAV_UTIL EXPORT ALL SYS out.xml

   where out.xml is the output file (including the path) that contains the current configuration. This file contains the complete configuration settings for the server machine except the metadata definitions for data sources that require Attunity metadata.

2. Run the following command:

   NAV_UTIL EXPORT ALL DS_NAME* out1.xml

   where DS_NAME is the name of a data source in the binding that has Attunity metadata defined.

3. Repeat the previous step for every data source that has Attunity metadata defined, changing the name of the output file for each data source.

   The collection of output files constitutes a complete backup of all the Attunity definitions on the machine.

**Installing Oracle Connect**

Perform the following steps to install Oracle Connect:

1. Transfer the tar.Z file to the system.

2. Decompress the file using the following command:

   uncompress <filename>

3. Run the tar command, as shown in the following example:

   tar xvf <filename> nav_install

   The following message is displayed:

   x nav_install, nnnn bytes, mmmm tape blocks
Installation Tasks

Perform the following steps to install Oracle Connect:

1. Run the following command:

   ./nav_install

   This command initiates the installation procedure. The installation procedure is displayed in a series of screen prompts and responses.

2. Enter the full path of the disk archive (.tar) file, and press Enter.

3. Enter the root directory name for the installation, and press Enter. You must have a WRITE permission for this directory. The default directory is the users home directory.

4. Confirm the directory name in which Oracle Connect is installed, and press Enter.

5. Enter the account name where you want Oracle Connect to run, and press Enter. This account name is used for anonymous access to the server by clients. It can be changed after the installation is complete.

6. Confirm the account name, and press Enter.

7. Specify the required shell, under which Oracle Connect should run, and press Enter. The following options are displayed:

   ■ C-shell (/bin/csh).
   ■ Korn-shell (/bin/ksh)
   ■ Bourne-shell (/bin/sh)

8. Enter the account name for a user with administrative authorization or press Enter to enable any user to administer Oracle Connect.

Post Installation Tasks

After installing Oracle Connect, perform the following postinstallation tasks:

■ Configuring the Oracle Connect Environment
■ Configuring the Tuxedo Environment for Oracle Connect
■ Configuring the Oracle Connect Script
■ Starting the Oracle Connect Daemon
■ Upgrading AIS Server

Note: Ensure that the directory used to run the installation files has WRITE privileges.
Configuring the Oracle Connect Environment
When Oracle Connect is installed on a UNIX platform, using FTP, copy the brand.bin file, in the binary mode, to the OracleAS Adapter for Tuxedo computer, to NAVROOT/bin.

Where NAVROOT is the directory where Oracle Connect is installed.

Configuring the Tuxedo Environment for Oracle Connect
If you are using the OracleAS Adapter for Tuxedo, you must verify that the following Tuxedo environment variables are correctly set:

- TUXDIR is set to the Tuxedo root directory.
- WSNADDR is set to OracleAS Adapter for Tuxedo network address.
- Check that the shared library environment variable (LD_LIBRARY_PATH, SHLIB_PATH under HP-UX and LIBPATH under IBM AIX) includes the path to the Tuxedo lib directory, as in the following example:

  LD_LIBRARY_PATH = /disk2/users/tuxedo/tuxedo8.0/lib

Configuring the Oracle Connect Script
The program that manages Oracle Connect server processes (nav_server) is accessed by a symbolic link to a file for the C-shell, Bourne and Korn shells.

To set up nav_server, perform the following steps:

1. In the bin directory, under the directory where Oracle Connect is installed, delete the existing link to nav_server using the following command:

   rm nav_server

2. In the bin directory, under the directory where Oracle Connect is installed, link to the required version of nav_server as follows:

   - C-shell: ln -s nav_server.csh nav_server
   - Bourne: ln -s nav_server.sh nav_server
   - Korn: ln -s nav_server.ksh nav_server

The Oracle Connect nav_login procedure defines the default environment when OracleAS Adapters for Tuxedo run. For site-dependent variables to be included in the environment, create a file called site_nav_login and save this file in the bin directory under the Oracle Connect root directory. nav_login runs site_nav_login automatically.

nav_login must be invoked to run Oracle Connect. It can be invoked from the user login script.

---

Note: It is recommended to add TUXDIR and WSNADDR environment variables to the site_nav_login file. Adding these environment variables facilitates their availability when new server processes are started to handle client requests.
The command line for invoking nav_login varies according to the shell the user is running. The following table lists the different options for invoking the command line:

<table>
<thead>
<tr>
<th>Shell</th>
<th>nav_login Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSH</td>
<td>.source root/bin/nav_login</td>
</tr>
<tr>
<td>Bourne</td>
<td>root/bin/nav_login.sh</td>
</tr>
<tr>
<td>Korn</td>
<td>root/bin/nav_login.sh</td>
</tr>
</tbody>
</table>

In the nav_login command, root represents the root directory of the Oracle Connect installation. After running the login procedure, the environment variable NAVROOT points to this root directory.

Ensure that users have READ and EXECUTE permissions on the Server files. Use the chmod command to change the permissions.

**Starting the Oracle Connect Daemon**

The Oracle Connect daemon must run on a server for client/server access to Oracle Connect. To start the daemon with the system startup, add the following command invoking the daemon to the end of the /etc/inittab file:

```
nv:3:once:navroot/bin/irpcd -l ip:2551 start >/dev/console 2>&1
```

In this command, the symbol navroot should be replaced with the directory where Oracle Connect is installed and ip replaced by the ip address of the computer.

---

**Note:** To allow automatic client/server access to Oracle Connect, start the daemon at system startup time from a super user account.

**Upgrading AIS Server**

To upgrade Oracle Connect from a previous version, you must import the XML file that you created earlier to back up your original installation (see Backing up the Original Installation (Upgrade Only)).

**To import the XML files**

- From the command prompt, run the following command:

  ```
  nav_util import <ds-name|adapter-name><xml_file_name
  ```

  where `<xml_file_name>` is the name (including the path) of an XML file that the exported information was written to.

**Installing Oracle Connect on Windows**

Do the following to install Oracle Connect on Windows.

---

**Notes:** If you are upgrading from version 10.1.3.3, you must use the upgrade option in the installation wizard. Do not uninstall Version 10.1.3.3 and then install the newer version. In this case, you lose all data in the Def directory.
1. Copy the following installation files into a folder on the Windows computer where you are installing Oracle Connect.
   - OCL_11112.exe
   - brand.bin

2. Open the Windows command-line interface.

3. Change to the directory where you installed the installation files.

4. Type the following at the command prompt to install Oracle Connect.

```
"OCL_11112_windows.exe" -a -bBRAND=".\brand.bin" -bSERVER
```

The install wizard opens. Follow the directions in the installation wizard to complete the installation.

**Note:** If you are installing Oracle Connect on a Windows XP computer, you cannot use a logical drive as the destination folder for the installation.

---

**Installing Oracle Studio**

This following sections explain how to install Oracle Studio. For information on the system requirements necessary to install Oracle Studio, see Oracle Studio Requirements.

- Installing Oracle Studio on Windows
- Installing Oracle Studio on Linux

**Note:** If you have Oracle Studio version 10.1.3.4 or higher installed on your computer because you are using an Oracle AS legacy adapter or OracleAS CDC adapter, you do not must reinstall it. If you have an older version of Oracle Studio, you must install the newest version.

---

**Installing Oracle Studio on Windows**

Oracle Studio is installed with a standard install wizard. Do the following to install Oracle Studio.

- Run the installation file, either using the Run option in the Windows Start menu or through Windows Explorer. Follow the instructions on the wizard screen.

**Installing Oracle Studio on Linux**

The Oracle Studio installation on Linux can be performed with the Oracle Studio wizard (SH installation). Do the following for the Linux SH installation.

1. Install into a directory where you have permission.
2. Change the mode to execute mode. Type in:

```
Chmod +x <file name>
```
3. Enter the following:

```
./file name
```

If you are not installing to the current directory, enter the full path.
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