

Oracle Utilities Operational Device Management

Installation Guide

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Preface

This guide describes how to install Oracle Utilities Operational Device Management.

This preface contains these topics:

- **Audience**
- **Related Documents**
- **Conventions**

Audience

Oracle Utilities Operational Device Management Installation Guide is intended for anyone interested in the process of installing Oracle Utilities Operational Device Management.

To use this document you should have:

- Administrative privileges on the host where you are installing the software
- Experience installing and configuring application servers and other software (preferable)

Related Documents

For more information, refer to these Oracle documents:

- *Oracle Utilities Operational Device Management Quick Install Guide*
- *Oracle Utilities Operational Device Management Release Notes*
- *Oracle Utilities Operational Device Management Configuration Guide*
- *Oracle Utilities Operational Device Management Database Administrator's Guide*
- *Oracle Utilities Operational Device Management User's Guide*

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.

Convention	Meaning
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Acronyms

The following acronyms are used in this document:

- **AMB** – **A**sset **M**anagement **B**ase (also known as Oracle Utilities Asset Management Base)
- **ODM** – **O**perational **D**evice **M**anagement (also known as Oracle Utilities Operational Device Management)
- **OUAF** – **O**racle **U**tilities **A**pplication **F**ramework

Chapter 1

Introduction

This chapter provides an overview of the Oracle Utilities Operational Device Management product and installation process. It contains the following sections:

- **Introduction**
- **Product Overview**
- **Installation Overview**
- **Installation Components**
- **Installation Types**
- **Media Pack Components**

Introduction

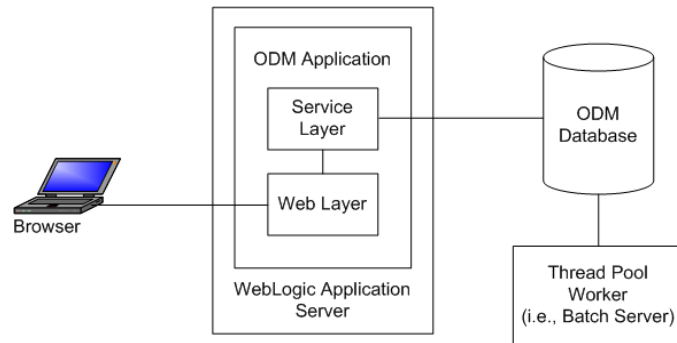
Oracle Utilities Operational Device Management provides functionality to handle large volumes of assets and to manage the receipt, installation, maintenance, tracking and removal of those assets.

Oracle Utilities Operational Device Management supports the following business processes:

- Capturing device attributes and supporting any type of device
- Supporting integration with other utility applications requiring device information and configuration
- Supporting detailed smart device attributes
- Supporting detailed location management and tracking of individual devices throughout their life cycle
- Capturing device configurations, settings, and calibrations
- Tracking firmware on smart devices
- Validating devices at the time of receipt
- Scheduling and capturing data related to periodic inspection history over time
- Defining cycle information to schedule inspections
- Defining procedures to follow when performing inspections
- Using activities and work orders to track and manage the electronic or in-field maintenance of devices
- Creating work activity/work order documents to be used in the field for inspection work
- Defining a work activity/work order life cycle

Product Overview

The following figure provides an overview of the Oracle Utilities Operational Device Management product:



Oracle Utilities Operational Device Management (ODM) is housed in the Oracle WebLogic J2EE Web Application Server. ODM has two layers: web and service. The application is accessed by using a browser to connect to the web layer.

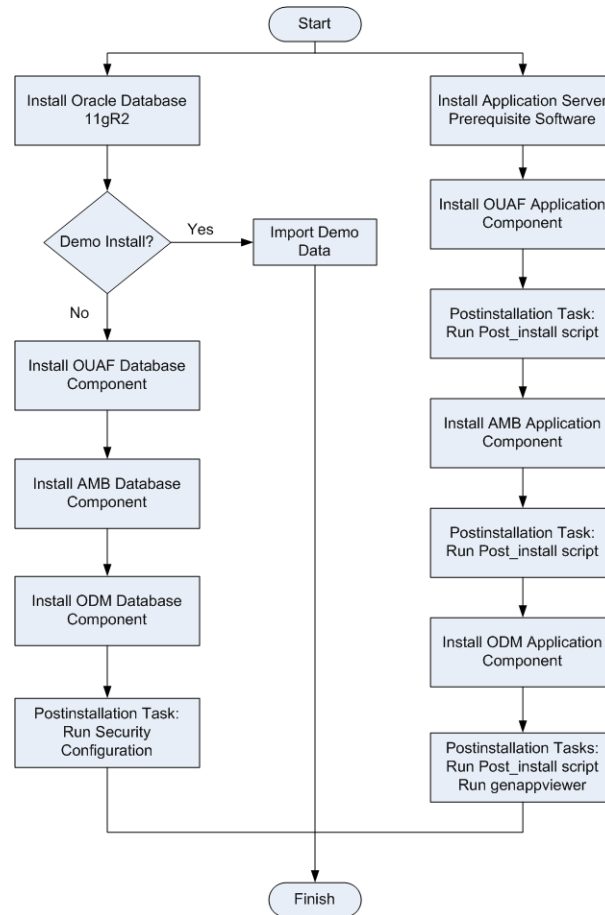
ODM data is stored in the Oracle Database. For processing large amounts of data, ODM provides thread pool worker (batch server) that interacts with the same ODM database.

Installation Overview

Oracle Utilities Operational Device Management consists of several components, all of which need to be installed for a successful installation. Refer to **Installation Components** for the list of components comprising the product.

Certain prerequisite software may need to be installed before installing each of these components. Refer to **Prerequisite Software List** for the list of prerequisite software for each component.

The following figure details the workflow for the initial and demo installation process.



Installation Components

The Oracle Utilities Operational Device Management product installation consists of the following components:

- Database Components:
 - Oracle Utilities Application Framework database
 - Oracle Utilities Asset Management Base database
 - Oracle Utilities Operational Device Management database
- Application Components:
 - Oracle Utilities Application Framework application
 - Oracle Utilities Asset Management Base application
 - Oracle Utilities Operational Device Management application

For a successful installation, you must install ALL of the above components.

Installation Types

The first step in the installation procedure is to determine the installation type that meets your business requirements. The following are the possible installation types:

- **Initial Installation** - a base installation, typically used for a production environment
- **Demo Installation** - a base installation with pre-populated demo data, typically used for demonstration or training purposes
- **Upgrade Installation** - an upgrade installation from version 2.0.0 to version 2.0.1.0

The following sections describe these installation types in detail.

Initial Installation

This installation type is applicable when installing Oracle Utilities Operational Device Management for the first time or from scratch. For an initial install, you must install all of the following components:

- Database components:

Refer to the “Initial Install” section of the *Oracle Utilities Operational Device Management Database Administrator's Guide* for more information.
- Application components:
 - Oracle Utilities Application Framework application
 - Oracle Utilities Asset Management Base application
 - Oracle Utilities Operational Device Management application

Refer to chapter **Installing Oracle Utilities Operational Device Management - Initial Installation** for the steps involved in installing each of the above components.

Demo Installation

This installation type is applicable when installing a demo application of Oracle Utilities Operational Device Management for demonstration or training purposes. For a demo install, you must install all of the following components:

- Demo Database components:

Refer to the “Demo Install” section of the *Oracle Utilities Operational Device Management Database Administrator's Guide* for more information.

- Application components:
 - Oracle Utilities Application Framework application
 - Oracle Utilities Asset Management Base application
 - Oracle Utilities Operational Device Management application

Refer to chapter **Installing Oracle Utilities Operational Device Management - Demo Installation** for the steps involved in installing each of the above components.

Upgrade Installation

This installation type is applicable when upgrading Oracle Utilities Operational Device Management from version v2.0.0 to v2.0.1.0. For an upgrade install, you must upgrade all of the following components:

- Database components:

Refer to the “Upgrade Install” section of the *Oracle Utilities Operational Device Management Database Administrator's Guide* for more information.
- Application components:
 - Oracle Utilities Application Framework application
 - Oracle Utilities Asset Management Base application
 - Oracle Utilities Operational Device Management application

Refer to chapter **Upgrading Oracle Utilities Operational Device Management** for the steps involved in upgrading each of the above components.

Media Pack Components

The following Media Pack components are part of the product package:

Documentation Packages

- *Oracle Utilities Operational Device Management Release Notes*
- *Oracle Utilities Operational Device Management Quick Install Guide*
- *Oracle Utilities Operational Device Management Database Administrator's Guide*
- *Oracle Utilities Operational Device Management Installation Guide*
- *Oracle Utilities Operational Device Management User Guide*
- *Oracle Utilities Operational Device Management Configuration Guide*
- *Oracle Utilities Application Framework v4.2.0.0 Administration Guide*
- *Oracle Utilities Application Framework v4.2.0.0 Business Process Guide*
- *Oracle Utilities Operational Device Management Server Administration Guide*
- *Oracle Utilities Operational Device Management Batch Server Administration Guide*

Installation Packages

- Oracle Utilities Application Framework v4.2.0.0 Multiplatform

- Oracle Utilities Application Framework v4.2.0.0.0 Single Fix PreRequisite Rollup for ODM V2.0.1.0.0
- Oracle Utilities Asset Management Base v2.0.1.0.0 Multiplatform
- Oracle Utilities Operational Device Management v2.0.1.0.0 Multiplatform
- Oracle Utilities Operational Device Management v2.0.1.0.0 Oracle Database Multiplatform

Chapter 2

Supported Platforms and Hardware Requirements

This chapter includes the following details:

- **Operating Systems and Application Servers**
- **Hardware Requirements**
- **Application Server Memory Requirements**
- **Additional Notes on Supported Platforms**
- **Support for Software Patches and Upgrades**

Operating Systems and Application Servers

This installation is certified to operate on many operating system, application server and database server combinations. The following table details the operating system and application server combinations on which this version of Oracle Utilities Operational Device Management version has been tested and certified.

Operating System and Web Browser (Client)	Operating System (Server)	Chipset	Application Server	Database
Windows XP SP3 (Internet Explorer 8.x or 9.x)	AIX 7.1 TL01 SP1	Power 64-bit	WebLogic 10.3.6	Oracle 11.2.0.1+
	Oracle Linux 5.8/6.2 (64-bit)/Red Hat Enterprise Linux 5.8/6.2 (64-bit)	x86_64	WebLogic 10.3.6	Oracle 11.2.0.1+
Windows 7 (32 and 64 bit) (Internet Explorer 8.x or 9.x)	Oracle Solaris 10 update 9 (64-bit)	SPARC 64-bit	WebLogic 10.3.6	Oracle 11.2.0.1+
	Windows Server 2008 R2 (64-bit)	x86_64	WebLogic 10.3.6	Oracle 11.2.0.1+

Hardware Requirements

Client Side Hardware Requirements

Configuration	Processor	Memory (RAM)	Monitor (Display)
Minimum	Pentium IV - 2.0 GHz	1024 MB	1024X768** 16-bit Color
Recommended*	Pentium IV -3.0+ GHz, (or) any Core 2 Duo (or) any Athlon X2	2048 MB	1280X1024** 32-bit Color

* The Recommended configuration supports better performance of the client.

** To reduce the amount of scrolling required for pages that are longer than 768 or 1024 pixels, consider placing a monitor into vertical position (with narrow side on the bottom).

Application Server Memory Requirements

For each application server environment a minimum of 4 GB of real memory is required, plus 6 GB of swap space.

Disk Space Requirements

The approximate disk space requirements in a standard installation are as follows:

Location	Size	Usage
Install_dir Location	5 GB minimum	This location is where the application and Framework get installed. Startup, shutdown and other online log files are stored here. The size and space that is used should be monitored because various debugging options can significantly affect the size of log files.
Log Location	2 GB minimum	This location is used for storing batch log files and output from batch jobs. The size of this space should be influenced by which batches are run and how often, and the amount of debugging information that is collected.
Location of the application web work files on the web servers	1.5 GB minimum	This location is used by various web server vendors to expand the application. It should be considered when installing these products. Refer to the individual web server documentation to determine the location of the temporary files.
Installation Temporary Area	4 GB	The application gets installed from this location. You need enough space to uncompress the files and install the application.
Oracle data area	4 GB minimum	This location is where the Oracle database data files are stored. The size of this space should be based on the requirements of the production environment. For an initial or demo database install 4 GB should be sufficient.

Additional Notes on Supported Platforms

Oracle Database Server - This version of Oracle Utilities Operational Device Management is certified on Oracle Database Server 11.2.0.1+ on the operating systems listed in the section above. The following versions of the database are supported:

- Oracle Database Enterprise Edition
- Oracle Database Standard Edition

Oracle VM Support - This version of Oracle Utilities Operational Device Management is supported on Oracle VM 2.2.2 for supported releases of Oracle Linux and Microsoft Windows operating systems.

Oracle Support Policy on VMWare - Refer to My Oracle Support knowledge base article 249212.1 for Oracle's support policy on VMWare

Support for Software Patches and Upgrades

Due to the ongoing nature of software improvement, vendors will issue patches and service packs for the operating systems, application servers and database servers on top of specific versions that Oracle Utilities Operational Device Management has been tested with.

If it is necessary to apply an upgrade, please do so in a test environment that is running on the same platform as your production environment prior to updating the Oracle Utilities Operational Device Management production environment.

The exception from this rule is Hibernate software version 4.1.0. This version should not be upgraded.

Always contact Oracle Utilities Operational Device Management support prior to applying vendor updates that do not guarantee backward compatibility.

Chapter 3

Planning the Installation

This chapter provides information for planning an Oracle Utilities Operational Device Management installation, including:

- **Before You Install**
- **Prerequisite Software List**
- **Installing PreRequisite Software**
- **Readiness Checklist**

Before You Install

Refer to My Oracle Support for up-to-date additional information about installing Oracle Utilities Operational Device Management.

Prerequisite Software List

Before you install Oracle Utilities Operational Device Management, you must install prerequisite software.

Refer to the respective installation documentation of the software for instructions on downloading and installing.

Prerequisite Software for Database Server

The prerequisite software for the database component of Oracle Utilities Operational Device Management is as follows:

- Oracle Database Server 11.2.0.1+ - This is required for installing the database component of the Oracle Utilities Operational Device Management product. The following versions of the database server are supported:
 - Oracle Database Enterprise Edition
 - Oracle Database Standard Edition

Prerequisite Software for Application Server

The prerequisite software for the application component of Oracle Utilities Operational Device Management is as follows:

- Oracle Database 11g Release 2 Client
- JDK 1.6.0_20 (64-bit)
- Oracle Web Logic 11gR1 (10.3.6)
- Hibernate 4.1.0

Web Browser Requirements

The following operating system / web browser software are supported:

- Windows XP SP3 or higher with Internet Explorer 8.x or 9.x
- Windows 7 (32-bit or 64-bit) with Internet Explorer 8.x or 9.x

Installing PreRequisite Software

This section describes the software that needs to be installed for each of the supported operating system and application server combinations, including:

- **AIX 7.1 TL01 SP1 Application Server**
- **Oracle Linux 5.8/6.2 or Red Hat Linux 5.8/6.2 Application Server**
- **Oracle Solaris 10 Application Server**
- **Windows Server 2008 R2 Application Server**

AIX 7.1 TL01 SP1 Application Server

This section describes the software requirements for operating the application using the AIX application server.

Supported Application Servers

Operating System	Chipset	Application Server
AIX 7.1 (64-bit) TL01 SP1	POWER 64-bit	Oracle WebLogic 11gR1 (10.3.6) 64-bit version

AIX 7.1 TL01 SP1 Operating System Running on Power5 and Power6 Architecture

UNIX Administrator User ID

The following user groups and accounts have to be created to install and administer the application

Description	Default Value	Customer Defined Value
Oracle Utilities Operational Device Management Administrator User ID	cissys	
Oracle Utilities Operational Device Management User Group	cisusr	

Note: It is recommended that you change the default values for security reasons.

Throughout this document the administrator user id is often referred to as the "cissys" user id. You should substitute that with the customer defined user id when not using the default value. After the initial install, the software should always be managed using that user id.

By default, the cissys userid is the only one given access to the installed files.

1. Create a group called cisusr (user group).
2. Create a user called cissys. Primary group cisusr. Set the primary shell for the cissys user to Korn Shell.
3. Set the desired hard/soft limit of the file handler to 4096 or higher.
4. The shell scripts use the ">" to overwrite shell functionality. Your operating system may be configured to not allow this functionality by default in the users shell.

To avoid file access permission problems when executing scripts, consider placing the following command into cissys profile script:

```
set +o noclobber
```

Security Configuration

Various options exists to secure a system. In this application all files will be created with the minimum permissions required to ensure that group-readable, group-writable and group-executable files will have the correct user groups and to restrict the permissions available to legitimate users. In this way, a low privileged end user cannot directly edit configuration files and thereby bypass application security controls.

The following users and group categories must be defined to implement this security. For demonstration purposes the following users and groups will be used. These users must be created according to industry standards (including password policies). All users should be created with a default umask of 022 to ensure files created during normal operation have the correct permissions.

Please replace these users and groups for your installation defaults:

User	Group	Description
cissys	cisusr	This user will be used to install the application and to apply patches. This user will own all the application files. The same care should be taken with this user ID as if it is 'root'. This user will be able to add, delete and modify and files within the application.
cisadm	cisusr	Administrative and Operation functions will be available to this user. This user will be able to stop and start the application and batch processes, but will not have access to modify any file other than generated log files
cisoper	-----	Low level operator. This user will only be able to read logs files and collect information for debugging and investigative purposes. Care should be taken in production to disable debugging as debugging information could contain potential sensitive data which this user should not have privy to.

Note: The Oracle Client and WebLogic should be installed as the user who will stop and start the application. For example, if you plan to run the application as the install user these components must belong to cissys.

Oracle Database 11g Release 2 Client — Runtime Option

Install the Oracle Client as described in the Oracle Client installation documentation. Use the cissys account to install the Oracle Client. If another user installs the Oracle Client, make sure the cissys user ID has the proper execute permissions.

For the cissys user ID, ensure that the environment variable ORACLE_CLIENT_HOME is set up, and that ORACLE_CLIENT_HOME/perl/bin is the first Perl listed in the cissys account's PATH variable.

IBM Java Software Development Kit version 6.0 SR8 64-bit

Installation of Java is a prerequisite for using Oracle WebLogic as a web application server.

At the time of release, AIX Java packages could be obtained from:

<http://www.ibm.com/developerworks/java/jdk/aix/service.html>

The web server requires the 64-bit Java platform in order to function. The main prerequisite for the web server is the version of java mentioned above.

For the Administrator userid (cissys), ensure that the environment variable JAVA_HOME is set up, and that "java" can be found in cissys' PATH variable.

Hibernate 4.1.0

You must install Hibernate 4.1.0 before installing Oracle Utilities Operational Device Management.

To install Hibernate:

1. Create a Hibernate jar external depot:

```
export HIBERNATE_JAR_DIR=<Hibernate 3rd party jars depot>
```

2. Download the hibernate-release-4.1.0.Final.zip file from

<http://sourceforge.net/projects/hibernate/files/hibernate4/>

Click the "4.1.0.Final" link to download the zip file.

3. Extract the contents of the archive file:

```
jar xvf hibernate-release-4.1.0.Final.zip
```

Note: You must have Java JDK installed on the machine to use the jar command. Be sure to install the JDK that is supported for your platform.

4. Copy the jar files to your Hibernate jar directory (\$HIBERNATE_JAR_DIR) using the following commands:

```
cp hibernate-release-4.1.0.Final/lib/optional/ehcache/ehcache-core-2.4.3.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/optional/ehcache/hibernate-ehcache-4.1.0.Final.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/hibernate-commons-annotations-4.0.1.Final.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/hibernate-core-4.1.0.Final.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/hibernate-jpa-2.0-api-1.0.1.Final.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/javassist-3.15.0-GA.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/jboss-logging-3.1.0.CR2.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/jboss-transaction-api_1.1_spec-1.0.0.Final.jar $HIBERNATE_JAR_DIR
```

Oracle WebLogic 11gR1 (10.3.6) 64-bit

Oracle WebLogic software can be downloaded from the Oracle web site. This application server will run as a 64-bit application.

- Download and install 64-bit Java (as documented above) before installing WebLogic.
- Download and install WebLogic Server 11gR1 (10.3.6).

Oracle Linux 5.8/6.2 or Red Hat Linux 5.8/6.2 Application Server

This section describes the software requirements for operating the application using the Oracle Linux or Red Hat Linux application server.

Supported Application Servers

Operating System	Chipset	Application Server
Oracle Linux 5.8/6.2 (64-bit) Red Hat Enterprise Linux 5.8/6.2 (64-bit)	x86_64	Oracle WebLogic 11gR1(10.3.6) 64-bit version

Oracle Linux 5.8/6.2 or Red Hat Enterprise Linux 5.8/6.2 Operating System Running on x86_64 64-bit Architecture

UNIX Administrator User ID

The following user groups and accounts have to be created to install and administer the application:

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1. Create a group called cisusr (user group)
2. Create a user called cissys. Primary group cisusr. Set the primary shell for the cissys user to Korn Shell.
3. Set the desired hard/soft limit of the file handler to 4096 or higher.

The shell scripts use the ">" to overwrite shell functionality. Your operating system may be configured to not allow this functionality by default in the users shell.

To avoid file access permission problems when executing scripts, consider placing the following command into cissys profile script:

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```

Security Configuration

Various options exist to secure a system. In this application all files will be created with the minimum permissions required to ensure that group-readable, group-writable and group-executable files will have the correct user groups and to restrict the permissions available to legitimate users. In this way, a low privileged end user cannot directly edit configuration files and thereby bypass application security controls.

The following users and group categories must be defined to implement this security. For demonstration purposes the following users and groups will be used. These users must be created according to industry standards (including password policies). All users should be created with a default umask of 022 to ensure files created during normal operation have the correct permissions.

Please replace these users and groups for your installation defaults:

User	Group	Description
cissys	cisusr	This user will be used to install the application and to apply patches. This user will own all the application files. The same care should be taken with this user ID as if it is 'root'. This user will be able to add, delete and modify files within the application.
cisadm	cisusr	Administrative and Operation functions will be available to this user. This user will be able to stop and start the application and batch processes, but will not have access to modify any file other than generated log files
cisoper	-----	Low level operator. This user will only be able to read logs files and collect information for debugging and investigative purposes. Care should be taken in production to disable debugging as debugging information could contain potential sensitive data which this user should not have privy to.

Note: The Oracle Client and WebLogic should be installed as the user who will stop and start the application. For example, if you plan to run the application as the install user these components must belong to cissys.

Oracle Database 11g Release 2 Client — Runtime Option

Install the Oracle Client as described in the Oracle Client installation documentation. Use the cissys account to install the Oracle Client. If another user installs the Oracle Client, make sure the cissys user ID has the proper execute permissions.

For the cissys user ID, ensure that the environment variable ORACLE_CLIENT_HOME is set up, and that ORACLE_CLIENT_HOME/perl/bin is the first Perl listed in the cissys account's PATH variable.

Oracle Java Development Kit Version 6.0 Update 20 or Later, 64-bit

At time of release, Oracle Java packages could be obtained from:

<http://www.oracle.com/technetwork/java/archive-139210.html>

The Oracle WebLogic Server requires the 64-bit version. The main prerequisite for the web server is the version of Java mentioned above.

For the userid cissys, ensure that the environment variable JAVA_HOME is setup, and that java_home/bin and java_home/lib can be found in cissys' PATH variable.

Hibernate 4.1.0

You must install Hibernate 4.1.0 before installing Oracle Utilities Operational Device Management.

To install Hibernate:

1. Create a Hibernate jar external depot:

```
export HIBERNATE_JAR_DIR=<Hibernate 3rd party jars depot>
```

2. Download the hibernate-release-4.1.0.Final.zip file from

<http://sourceforge.net/projects/hibernate/files/hibernate4/>

Click the “4.1.0.Final” link to download the zip file.

3. Extract the contents of the archive file:

```
jar xvf hibernate-release-4.1.0.Final.zip
```

Note: You must have Java JDK installed on the machine to use the jar command. Be sure to install the JDK that is supported for your platform.

4. Copy the jar files to your Hibernate jar directory (\$HIBERNATE_JAR_DIR) using the following commands:

```
cp hibernate-release-4.1.0.Final/lib/optional/ehcache/ehcache-core-2.4.3.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/optional/ehcache/hibernate-ehcache-4.1.0.Final.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/hibernate-commons-annotations-4.0.1.Final.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/hibernate-core-4.1.0.Final.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/hibernate-jpa-2.0-api-1.0.1.Final.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/javassist-3.15.0-GA.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/jboss-logging-3.1.0.CR2.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/jboss-transaction-api_1.1_spec-1.0.0.Final.jar $HIBERNATE_JAR_DIR
```

Oracle WebLogic 11gR1 (10.3.6) 64-bit

Oracle WebLogic software can be downloaded from the Oracle web site. This application server will run as a 64-bit application.

- Download and install 64-bit Java (as documented above) before installing WebLogic.
- Download and install WebLogic Server 11gR1 (10.3.6).

Oracle Solaris 10 Application Server

This section describes the software requirements for operating the application using the Oracle Solaris 10 application server.

Supported Application Servers

Operating System	Chipset	Application Server
Oracle Solaris 10 Update 9 (64-bit)	SPARC	Oracle WebLogic 11gR1 (10.3.6) 64-bit version

Oracle Solaris 10 Update 9 Operating System Running on SPARC-based 64-bit

Architecture

UNIX Administrator User ID

The following user groups and accounts have to be created to install and administer the application:

Description	Default Value	Customer Defined Value
Oracle Utilities Operational Device Management Administrator User ID	cissys	
Oracle Utilities Operational Device Management User Group	cisusr	

Note: It is recommended that you change the default values for security reasons.

Throughout this document the administrator user id is often referred to as the "cissys" user id. You should substitute that with the customer defined user id when not using the default value. After the initial install, the software should always be managed using that user id.

By default, the cissys userid is the only one given access to the files installed.

1. Create a group called cisusr (user group)
2. Create a user called cissys. Primary group cisusr. Set the primary shell for the cissys user to Korn Shell.
3. Set the desired hard/soft limit of the file handler to 4096 or higher.

The shell scripts use the ">" to overwrite shell functionality. Your operating system may be configured to not allow this functionality by default in the users shell.

To avoid file access permission problems when executing scripts, consider placing the following command into cissys profile script:

```
set +o noclobber
```

Security Configuration

Various options exists to secure a system. In this application all files will be created with the minimum permissions required to ensure that group-readable, group-writable and group-executable files will have the correct user groups and to restrict the permissions available to legitimate users. In this way, a low privileged end user cannot directly edit configuration files and thereby bypass application security controls.

The following users and group categories must be defined to implement this security. For demonstration purposes the following users and groups will be used. These users must be created according to industry standards (including password policies). All users should be created with a default umask of 022 to ensure files created during normal operation have the correct permissions.

Please replace these users and groups for your installation defaults:

User	Group	Description
cissys	cisusr	This user will be used to install the application and to apply patches. This user will own all the application files. The same care should be taken with this user ID as if it is 'root'. This user will be able to add, delete and modify and files within the application.

User	Group	Description
cisadm	cisusr	Administrative and Operation functions will be available to this user. This user will be able to stop and start the application and batch processes, but will not have access to modify any file other than generated log files
cisoper	-----	Low level operator. This user will only be able to read logs files and collect information for debugging and investigative purposes. Care should be taken in production to disable debugging as debugging information could contain potential sensitive data which this user should not have privy to.

Note: The Oracle Client and WebLogic should be installed as the user who will stop and start the application. For example, if you plan to run the application as the install user these components must belong to cissys.

Oracle Database 11g Release 2 Client — Runtime Option

Install the Oracle Client as described in the Oracle Client installation documentation. Use the cissys account to install the Oracle Client. If another user installs the Oracle Client, make sure the cissys user ID has the proper execute permissions.

For the cissys user ID, ensure that the environment variable ORACLE_CLIENT_HOME is set up, and that ORACLE_CLIENT_HOME/perl/bin is the first Perl listed in the cissys account's PATH variable.

Oracle Java Development Kit Version 6.0 Update 20 or Later, 64-bit

This software is only required for Oracle WebLogic installations.

At the time of release, the Oracle Java packages used in the test cycle were downloaded from:

<http://www.oracle.com/technetwork/java/archive-139210.html>

The Oracle WebLogic Server requires the 64-bit version. The main prerequisite for the web server is the version of java mentioned above.

For the userid cissys, ensure that the environment variable JAVA_HOME is setup, and that java_home/bin and java_home/lib can be found in cissys' PATH variable.

Hibernate 4.1.0

You must install Hibernate 4.1.0 before installing Oracle Utilities Operational Device Management.

To install Hibernate:

1. Create a Hibernate jar external depot:


```
export HIBERNATE_JAR_DIR=<Hibernate 3rd party jars depot>
```
2. Download the hibernate-release-4.1.0.Final.zip file from


```
http://sourceforge.net/projects/hibernate/files/hibernate4/
```

Click the “4.1.0.Final” link to download the zip file.
3. Extract the contents of the archive file:


```
jar xvf hibernate-release-4.1.0.Final.zip
```

Note: You must have Java JDK installed on the machine to use the jar command. Be sure to install the JDK that is supported for your platform.

-
4. Copy the jar files to your Hibernate jar directory (\$HIBERNATE_JAR_DIR) using the following commands:

```
cp hibernate-release-4.1.0.Final/lib/optional/
ehcache/ehcache-core-2.4.3.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/optional/
ehcache/hibernate-ehcache-4.1.0.Final.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/
hibernate-commons-annotations-4.0.1.Final.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/
hibernate-core-4.1.0.Final.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/
hibernate-jpa-2.0-api-1.0.1.Final.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/
javassist-3.15.0-GA.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/
jboss-logging-3.1.0.CR2.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/
jboss-transaction-api_1.1_spec-1.0.0.Final.jar $HIBERNATE_JAR_DIR
```

Oracle WebLogic 11gR1 (10.3.6) 64-bit

Oracle WebLogic software can be downloaded from the Oracle web site. This application server will run as a 64-bit application.

- Download and install 64-bit Java (as documented above) before installing WebLogic.
- Download and install WebLogic Server 11gR1 (10.3.6).

Windows Server 2008 R2 Application Server

This section describes the software requirements for operating the application using the Windows application server.

Supported Application Servers

Operating System	Chipset	Application Server
Windows Server 2008 R2 (64-bit)	x86_64	Oracle WebLogic 11gR1 (10.3.6)

Oracle Database 11g Release 2 Client — Runtime Option

Install the Oracle Client as described in the Oracle Client installation documentation. Use the cissys account to install the Oracle Client. If another user installs the Oracle Client, make sure the cissys user ID has the proper execute permissions.

For the cissys user ID, ensure that the environment variable ORACLE_CLIENT_HOME is set up, and that ORACLE_CLIENT_HOME/perl/bin is the first Perl listed in the cissys account's PATH variable.

Oracle Java Development Kit version 6.0 Update 20 or Later, 64-bit

This software is required for the Oracle WebLogic Installation.

At time of release, Oracle Java packages could be obtained from:

<http://www.oracle.com/technetwork/java/archive-139210.html>

The Oracle WebLogic Server requires the 64-bit version. The main prerequisite for the web server is the version of java mentioned above.

For the userid cissys, ensure that the environment variable JAVA_HOME is setup, and that java_home/bin and java_home/lib can be found in cissys' PATH variable.

Hibernate 4.1.0

You must install Hibernate 4.1.0 before installing Oracle Utilities Operational Device Management.

To install Hibernate:

1. Create a Hibernate jar external depot:

```
export HIBERNATE_JAR_DIR=<Hibernate 3rd party jars depot>
```

2. Download the hibernate-release-4.1.0.Final.zip file from

<http://sourceforge.net/projects/hibernate/files/hibernate4/>

Click the “4.1.0.Final” link to download the zip file.

3. Extract the contents of the archive file:

```
jar xvf hibernate-release-4.1.0.Final.zip
```

Note: You must have Java JDK installed on the machine to use the jar command. Be sure to install the JDK that is supported for your platform.

4. Copy the jar files to your Hibernate jar directory (\$HIBERNATE_JAR_DIR) using the following commands:

```
cp hibernate-release-4.1.0.Final/lib/optional/ehcache/ehcache-core-2.4.3.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/optional/ehcache/hibernate-ehcache-4.1.0.Final.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/hibernate-commons-annotations-4.0.1.Final.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/hibernate-core-4.1.0.Final.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/hibernate-jpa-2.0-api-1.0.1.Final.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/javassist-3.15.0-GA.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/jboss-logging-3.1.0.CR2.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/jboss-transaction-api_1.1_spec-1.0.0.Final.jar $HIBERNATE_JAR_DIR
```

Oracle WebLogic 11gR1 (10.3.6) 64-bit

Oracle WebLogic software can be downloaded from the Oracle web site. This application server will run as a 64-bit application.

- Download and install 64-bit Java (as documented above) before installing WebLogic.
- Download and install WebLogic Server 11gR1 (10.3.6).

Readiness Checklist

The following checklist will guide you through the installation process of Oracle Utilities Operational Device Management. The details for each step are presented in subsequent chapters.

1. Confirm that the recommended hardware is ready. Refer to **Supported Platforms and Hardware Requirements** for more details.
2. Install prerequisite software. Refer to the **Prerequisite Software List** for more details.
3. Ensure that you have downloaded the Oracle Utilities Operational Device Management components.
4. Go through the **Installation and Configuration Worksheets** to understand the configuration menu.

-
5. Determine the type of the installation:
 - **Initial** Installation - For initial installation follow the instructions mentioned in **Installing Oracle Utilities Operational Device Management - Initial Installation**
 - **Demo** Installation - For demo installation follow the instructions mentioned in **Installing Oracle Utilities Operational Device Management - Demo Installation**
 - **Upgrade** Installation - For upgrade installation follow the instructions mentioned in **Upgrading Oracle Utilities Operational Device Management**
 6. Perform post-installation tasks.

Chapter 4

Installing Oracle Utilities Operational Device Management - Initial Installation

This chapter provides instructions for installing Oracle Utilities Operational Device Management from scratch. This chapter includes:

- **Before You Install**
- **Initial Installation Procedure**
- **After the Installation**
- **Operating the Application**
- **Installing Service Packs and Patches**

Before You Install

Refer to My Oracle Support for up-to-date additional information on Oracle Utilities Operational Device Management.

Initial Installation Procedure

The initial installation procedure consists of:

- **Database Component Installation**
- **Application Components Installation**

Database Component Installation

Installation of the database component of Oracle Utilities Operational Device Management must be complete before you can proceed with the following sections. Refer to the section “**Initial Install**” of the *Oracle Utilities Operational Device Management Database Administrator's Guide*, which provides instructions on installing the database component.

Application Components Installation

A successful installation consists of the following steps:

- **Installing the Oracle Utilities Application Framework Application Component**
- **Installing Oracle Utilities Asset Management Base Application Component**
- **Installing the Oracle Utilities Operational Device Management Application Component**

Installing the Oracle Utilities Application Framework Application Component

This section describes how to install the application component of Oracle Utilities Application Framework, including:

- **Copying and Decompressing Install Media**
- **Setting Permissions for the cistab file in UNIX**
- **Installing the Application Component**

Copying and Decompressing Install Media

The Oracle Utilities Application Framework installation file is delivered in jar format for both UNIX and Windows platforms. If you are planning to install multiple Oracle Utilities Application Framework environments operated by different Oracle Utilities administrator user ids, you must complete each of the following installation steps for each administrator userid.

To copy and decompress the install media, follow these steps:

1. Log in to the application server host with the Oracle Utilities Application Framework administrator user ID.
2. Download the Oracle Utilities Application Framework V4.2.0.0.0 Multiplatform from Oracle Software Delivery Cloud.
3. Create a temporary directory such as c:\ouaf\temp or /ouaf/temp. (Referred to below as <TEMPDIR>.)

Note: This directory must be located outside any current or other working Oracle Utilities application environment. All files that are placed in this directory as a part of the installation can be deleted after completing a successful installation.

4. Copy the file FW-V4.2.0.0.0-MultiPlatform.jar from the delivered package to the <TEMPDIR>. If you are using FTP to transfer this file, remember to use the BINARY option for the FTP transfer.
5. Decompress the file:

```
cd <TEMPDIR>
jar -xvf FW-V4.2.0.0.0-MultiPlatform.jar
```

Note: You will need to have Java JDK installed on the machine used to (un)jar the application server installation package. Please install the JDK that is supported for the install on your platform to be able to use the jar command. This is the location of Java packages: <http://www.oracle.com/technetwork/java/archive-139210.html>

A sub-directory named "FW.V4.2.0.0.0" is created. It contains the installation software for the Oracle Utilities framework application server.

Setting Permissions for the cistab file in UNIX

Every Oracle Utilities Application Framework environment installed on a server must be registered in the /etc/cistab file located on that server. On UNIX servers, generally only the root

user ID has write permissions to the /etc directory. Since the installation process is run by the Oracle administrator user ID (cissys), this user ID may not be able to write to /etc/cistab table.

The install utility checks permissions and if it identifies a lack of the necessary permissions, it generates a script in the <TEMPDIR>/FW.V4.2.0.0.0 directory named cistab_<SPLENVIRON>.sh. Run the generated script using the root account before continuing with the installation process. The script initializes the cistab file in /etc directory (if it is the first Oracle Utilities Framework application environment on the server) and registers a new environment.

The generated script also changes the owner of /etc/cistab file to the Oracle Utilities Framework administrator user ID, so that the next time a new environment is created by the same Oracle Utilities Framework administrator user ID, you do not need to run the generated script with the root user ID. Instead the install utility itself proceeds with the registration.

If you are reinstalling an existing environment, only the validation of /etc/cistab entry is done by the install utility, no new registration occurs. The install utility interactively instructs you about every step that needs to occur in each specific case.

If you are planning to upgrade an existing environment it is your responsibility to take a backup prior to the installation process. The installation utility does not create a backup of existing environment.

Installing the Application Component

This section outlines the steps for installing the application component of Oracle Utilities Application Framework.

1. Login to the Application Server host as administrator (the default is cissys on UNIX) or as a user with Administrator privileges (on Windows).
2. Change directory to the <TEMPDIR>/FW.V4.2.0.0.0 directory.
3. Set the ORACLE_CLIENT_HOME and PATH variables as Oracle Client Perl is required to run the installer.

UNIX:

```
export ORACLE_CLIENT_HOME=<ORACLE CLIENT INSTALL LOCATION>
export PERL_HOME=${ORACLE_CLIENT_HOME}/perl
export PATH=${PERL_HOME}/bin:$PATH
export PERL5LIB=${PERL_HOME}/lib:${PERL_HOME}/lib/site_perl:<OUAF
    Installer Decompressed location/bin/perl>
export PERLLIB=${PERL_HOME}/lib:${PERL_HOME}/lib/site_perl:<OUAF
    Installer Decompressed location/bin/perl>
export LD_LIBRARY_PATH=${ORACLE_CLIENT_HOME}/lib:$LD_LIBRARY_PATH
```

Windows:

```
set ORACLE_CLIENT_HOME=<ORACLE CLIENT INSTALL LOCATION>
set PERL_HOME=%ORACLE_CLIENT_HOME%\perl
set PATH=%PERL_HOME%\bin;%PATH%
```

4. Start the application installation utility by executing the appropriate script:

UNIX:

```
ksh ./install.sh
```

Windows:

```
install.cmd
```

5. The Oracle Utilities Application Framework specific menu appears.
6. Follow the messages and instructions that are produced by the application installation utility.

-
7. Select each menu item to configure the values. For detailed description of the values, refer to Appendix **Installation and Configuration Worksheets**.
 8. Below are the mandatory list of configurable items along with descriptions for a few items. Where you see <Mandatory>, enter values suitable to your environment. You can assign default values to the rest of the menu items.

```
*****
* Environment Installation Options *
*****

1. Third Party Software Configuration
   Oracle Client Home Directory: <Mandatory>
   Web Java Home Directory:      <Mandatory>
   Child JVM Home Directory:
   COBOL Home Directory:
   Hibernate JAR Directory: <Mandatory>
   ONS JAR Directory:
   Web Application Server Home Directory: <Mandatory>
   ADF Home Directory:
   OIM OAM Enabled Environment:

50. Environment Installation Options
    Environment Mount Point: <Mandatory> - Install Location
    Log Files Mount Point: <Mandatory> - ThreadPoolWorker Logs Location

    Environment Name: <Mandatory>
    Web Application Server Type:                                WLS
    Install Application Viewer Module:                          true
```

Each item in the above list should be configured for a successful install.

Choose option (1,50, <P> Process, <X> Exit):

9. Once you enter 'P' after entering mandatory input values in the above menu, the system populates another configuration menu.

```
*****
* Environment Configuration *
*****

1. Environment Description
   Environment Description:      <Mandatory>

2. Business Application Server Configuration
   Business Server Host:        <Mandatory> - Hostname on which application being installed
   WebLogic Server Name:        myserver
   Business Server Application Name: SPLService
   MPL Admin Port Number:       <Mandatory> - Multipurpose Listener Port
   MPL Automatic startup:       false

3. Web Application Server Configuration
   Web Server Host:             <Mandatory>
   Web Server Port Number:       <Mandatory>
   Web Context Root:            ouaf
   WebLogic JNDI User ID:        <Mandatory>
   WebLogic JNDI Password:       <Mandatory>
   WebLogic Admin System User ID: <Mandatory>
   WebLogic Admin System Password: <Mandatory>
   WebLogic Server Name:        myserver
   Web Server Application Name:  SPLWeb
```

Application Admin User ID:	<Mandatory>
Application Admin Password:	<Mandatory>
Expanded Directories:	false
Application Viewer Module:	true

4. Database Configuration

Application Server Database User ID:	<Mandatory>
Application Server Database Password:	<Mandatory>
MPL Database User ID:	<Mandatory>
MPL Database Password:	<Mandatory>
XAI Database User ID:	<Mandatory>
XAI Database Password:	<Mandatory>
Batch Database User ID:	<Mandatory>
Batch Database Password:	<Mandatory>
Database Name:	<Mandatory>
Database Server:	<Mandatory>
Database Port:	<Mandatory>
ONS Server Configuration:	
Database Override Connection String:	
Oracle Client Character Set NLS_LANG:	

5. General Configuration Options

Batch RMI Port:	<Mandatory> - <i>RMI port for batch</i>
Batch Mode:	<Mandatory> - <i>CLUSTERED or DISTRIBUTED</i>
Coherence Cluster Name:	<Mandatory> - <i>Unique name for batch</i>
Coherence Cluster Address:	<Mandatory> - <i>Unique multicast address</i>
Coherence Cluster Port:	<Mandatory> - <i>Unique port for batch cluster</i>
Coherence Cluster Mode:	<Mandatory> - <i>prod</i>

Each item in the above list should be configured for a successful install.

Choose option (1,2,3,4,5, <P> Process, <X> Exit):

- When you are done with the parameter setup, proceed with the option P. The utility writes the configured parameters and their values into the configuration file.
- Once the install has finished, the installation log location appears on the screen. If the log does not list any error messages, the installation of the application component of Oracle Utilities Application Framework is complete. You can now install Oracle Utilities Asset Management Base as described in the following section.

Installing Oracle Utilities Asset Management Base Application Component

This section describes how to install the application component of Oracle Utilities Asset Management Base, including:

- **Installing Prerequisite Patches**
- **Copying and Decompressing Install Media**
- **Installing the Application Component**
- **Performing Post-Installation Tasks**

Installing Prerequisite Patches

Oracle Utilities Application Framework patches must be installed prior to installing Oracle Utilities Asset Management Base.

Download the Oracle Utilities Application Framework V4.2.0.0.0 Single Fix Prerequisite Rollup for ODM V2.0.1.0.0 from Oracle Software Delivery Cloud.

The patches are available as a convenience rollup, ODM-V2.0.1.0.0-FW- PREREQ-Multiplatform.zip, which is included in the downloaded Media Pack.

Please refer to the instructions contained in ReadMe.txt file inside the rollup directory for steps to install the patches. For a list of the patches that are included in this rollup, refer to Appendix **Application Framework Prerequisite Patches**.

Copying and Decompressing Install Media

The Oracle Utilities Asset Management Base installation file is delivered in jar format for both UNIX and Windows platforms. If you are planning to install multiple Oracle Utilities Application Framework environments operated by different Oracle Utilities Administrator user ids, you must complete each of the following installation steps for each Administrator userid.

1. Log in to the application server as the Oracle Utilities Application Framework administrator user ID (default cissys). This is the same user ID that was used to install the Oracle Utilities Application Framework.
2. Download the Oracle Utilities Asset Management Base V2.0.1.0.0 Multiplatform from Oracle Software Delivery Cloud.
3. Create a <TEMPDIR> directory on the application server, which is independent of any current or other working Oracle Utilities Operational Device Management application environment. This can be the same <TEMPDIR> used during the installation of the Oracle Utilities Application Framework.
4. Copy the file AMB-V2.0.1.0.0-MultiPlatform.jar in the delivered package to a <TEMPDIR> on your application server. If you are using FTP to transfer this file, remember to use the BINARY option for the FTP transfer.
5. Decompress the file:

```
cd <TEMPDIR>
jar -xvf AMB-V2.0.1.0.0-MultiPlatform.jar
```

For Windows installations, include the location of the JDK in your path before you execute the jar command.

For both Unix and Windows platforms, a sub-directory named W1.V2.0.1.0.0 is created. The contents of the installation directory are identical for both platforms. The directory contains the install software for the application product.

Installing the Application Component

Follow the steps below to install the application component of Oracle Utilities Asset Management Base:

1. Log in to the application server host server as Oracle Utilities Asset Management Base Administrator (default cissys).
2. Change directory:

```
cd <install_dir>/bin
```

where <install_dir> is the location where the Oracle Utilities Application Framework application component is installed.

3. Initialize the Oracle Utilities Application Framework environment by running the appropriate command:

UNIX:

```
./splenviron.sh -e <ENV NAME>
```

Windows:

```
splenviron.cmd -e <ENV NAME>
```

4. If the environment is running, stop it by running the appropriate command:

UNIX:

```
./spl.sh stop
```

Windows:

```
spl.cmd stop
```

5. Change directory to the <TEMPDIR>/W1.V2.0.1.0.0 directory.
6. Execute the install script:

Note: On UNIX, ensure that you have the proper execute permission on install.sh

UNIX:

```
ksh ./install.sh
```

Windows:

```
install.cmd
```

7. The Oracle Utilities Operational Device Management Application specific menu appears.
8. The menu prompts you to confirm that the selected environment is correct. Press **Y** to confirm.
9. When you are done with the confirmation, proceed with the option **P**.
10. Once the install has finished successfully, execute the post-installation tasks.

Performing Post-Installation Tasks

Follow these steps to run the post install script:

1. Log in to the application server host server as Oracle Utilities Operational Device Management Administrator (default cissys).
2. Change directory:

```
cd <install_dir>/bin
```

where <install_dir> is the location where the Oracle Utilities Asset Management Base application component is installed.

3. Initialize the environment by running the appropriate command:

UNIX:

```
./splenviron.sh -e <ENV NAME>
```

Windows:

```
splenviron.cmd -e <ENV NAME>
```

4. Change to the <TEMPDIR>/W1.V2.0.1.0.0 directory.
5. Run the post-installation script:

UNIX:

```
ksh ./postinstall.sh
```

Windows:

```
postinstall.cmd
```

Continue to the next section to install the application component of Oracle Utilities Operational Device Management.

Installing the Oracle Utilities Operational Device Management Application Component

This section describes how to install the application component of Oracle Utilities Operational Device Management, including:

- **Copying and Decompressing Install Media**
- **Installing the Application Component**
- **Performing Post-Installation Tasks**

Copying and Decompressing Install Media

The Oracle Utilities Operational Device Management installation file is delivered in jar format for both UNIX and Windows platforms.

To copy and decompress the install media, follow these steps:

1. Log in to the application server host as the Oracle Utilities Application Framework administrator user ID (default cissys). This is the same user ID that was used to install the Oracle Utilities Application Framework.
2. Download the Oracle Utilities Operational Device Management V2.0.1.0.0 Multiplatform from Oracle Software Delivery Cloud.
3. Create a <TEMPDIR> directory on the host server, which is independent of any current or other working Oracle Utilities Operational Device Management application environment. This can be the same <TEMPDIR> used during the installation of the Oracle Utilities Application Framework.
4. Copy the file ODM-V2.0.1.0.0-MultiPlatform.jar in the delivered package to a <TEMPDIR> on your host server. If you are using FTP to transfer this file, remember to use the BINARY option for the FTP transfer.
5. Decompress the file:

```
cd <TEMPDIR>
jar -xvf ODM-V2.0.1.0.0-MultiPlatform.jar
```

For Windows installations, include the location of the JDK in your path before you execute the jar command.

For both Unix and Windows platforms, a sub-directory named W2.V2.0.1.0.0 is created. The contents of the installation directory are identical for both platforms. The directory contains the install software for the application product.

Installing the Application Component

Follow the steps below to install Oracle Utilities Operational Device Management application component:

1. Log in to the application server host as Oracle Utilities Operational Device Management Administrator (default cissys).
2. Change directory:

```
cd <install_dir>/bin
```

where <install_dir> is the location where the Oracle Utilities Asset Management Base application component is installed.

-
3. Initialize the environment by running the appropriate command:

UNIX:

```
./splenviron.sh -e <ENV NAME>
```

Windows:

```
splenviron.cmd -e <ENV NAME>
```

4. If the environment is running, stop it by running the appropriate command:

UNIX:

```
./spl.sh stop
```

Windows:

```
spl.cmd stop
```

5. Change to the <TEMPDIR>/W2.V2.0.1.0.0 Directory.

6. Execute the install script:

Note: On UNIX, ensure that you have the proper execute permission on install.sh.

UNIX:

```
ksh ./install.sh
```

Windows:

```
install.cmd
```

Once the install has finished successfully, execute post installation steps as described in the following section, Post installation Tasks.

Performing Post-Installation Tasks

1. Run the post install script by following the steps below:

- a. Change directory.

```
cd <install_dir>/bin
```

where <install_dir> is the location where the Oracle Utilities Operational Device Management application component is installed.

- b. Initialize the environment by running the appropriate command:

UNIX:

```
./splenviron.sh -e <ENV NAME>
```

Windows:

```
splenviron.cmd -e <ENV NAME>
```

- a. Change to the <TEMPDIR>/W2.V2.0.1.0.0

- b. Run the post-installation script:

UNIX:

```
ksh ./postinstall.sh
```

Windows:

```
postinstall.cmd
```

-
3. Generate the appviewer by following the steps below:

- a. Change the directory.

```
cd <install_dir>/bin ,  
where <install_dir> is Oracle Utilities Operational Device Management Application  
Component installation directory
```

- b. Run the script to generate the appviewer.

UNIX:

```
ksh ./genappvieweritems.sh
```

Windows:

```
genappvieweritems.cmd
```

After the Installation

After you complete the installation, verify the following:

1. Verify installation logs created under decompressed installer location for any errors.
2. Confirm installation logs do not contain any errors.
3. Confirm all the configurations are correct. Refer to Appendix **Installation and Configuration Worksheets** for details.
4. Confirm that the database is ready.
5. Generate appviewer.
6. Start the application server. For instructions, refer to Appendix **Common Maintenance Activities**.
7. To operate the application, refer to the following section.

Operating the Application

At this point your installation and custom integration process is complete. Be sure to read the *Oracle Utilities Operational Device Management Server Administration Guide* for more information on further configuring and operating the system.

Installing Service Packs and Patches

Periodically, Oracle Utilities releases a service pack of single fixes for its products. A service pack is an update to an existing release that includes solutions to known problems and other product enhancements. A service pack is not a replacement for an installation, but a pack consisting of a collection of changes and additions for it. The service pack may include changes to be applied to the application server, the database, or both. The service pack includes all files necessary for installing the collection of changes, including installation instructions.

Between services packs, Oracle Utilities releases patches to fix individual bugs. For information on installing patches, refer to knowledge base article ID 974985.1 on My Oracle Support.

Service packs and patches can be downloaded from My Oracle Support (<https://support.oracle.com/>).

Chapter 5

Installing Oracle Utilities Operational Device Management - Demo Installation

This chapter provides instructions for setting up a demo application of Oracle Utilities Operational Device Management useful for demonstration or training purposes. This chapter includes:

- **Before You Install**
- **Demo Installation Procedure**
- **After the Installation**
- **Operating the Application**
- **Installing Service Packs and Patches**

Before You Install

Refer to My Oracle Support for up-to-date additional information on Oracle Utilities Operational Device Management.

Demo Installation Procedure

The demo installation procedure consists of:

- **Database Component Installation**
- **Application Components Installation**

Database Component Installation

Installation of the database component of Oracle Utilities Operational Device Management must be complete before you can proceed with the following sections. Refer to the section “**Demo Install**” of the *Oracle Utilities Operational Device Management Database Administrator's Guide*, which provides instructions on installing the database component with pre-populated demo data.

Application Components Installation

A successful installation consists of the following steps:

- **Installing the Oracle Utilities Application Framework Application Component**
- **Installing Oracle Utilities Asset Management Base Application Component**

-
- **Installing the Oracle Utilities Operational Device Management Application Component**

Installing the Oracle Utilities Application Framework Application Component

This section describes how to install the application component of Oracle Utilities Application Framework, including:

- **Copying and Decompressing Install Media**
- **Setting Permissions for the cistab file in UNIX**
- **Installing the Application Component**

Copying and Decompressing Install Media

The Oracle Utilities Application Framework installation file is delivered in jar format for both UNIX and Windows platforms. If you are planning to install multiple Oracle Utilities Application Framework environments operated by different Oracle Utilities administrator user ids, you must complete each of the following installation steps for each administrator userid.

To copy and decompress the install media, follow these steps:

1. Log in to the application server host with the Oracle Utilities Application Framework administrator user ID.
2. Download the Oracle Utilities Application Framework V4.2.0.0.0 Multiplatform from Oracle Software Delivery Cloud.
3. Create a temporary directory such as c:\ouaf\temp or /ouaf/temp. (Referred to below as <TEMPDIR>.)

Note: This directory must be located outside any current or other working Oracle Utilities application environment. All files that are placed in this directory as a part of the installation can be deleted after completing a successful installation.

4. Copy the file FW-V4.2.0.0.0-MultiPlatform.jar from the delivered package to the <TEMPDIR>. If you are using FTP to transfer this file, remember to use the BINARY option for the FTP transfer.
5. Decompress the file:

```
cd <TEMPDIR>
jar -xvf FW-V4.2.0.0.0-MultiPlatform.jar
```

Note: You will need to have Java JDK installed on the machine used to (un)jar the application server installation package. Please install the JDK that is supported for the install on your platform to be able to use the jar command. This is the location of Java packages: <http://www.oracle.com/technetwork/java/archive-139210.html>

A sub-directory named "FW.V4.2.0.0.0" is created. It contains the installation software for the Oracle Utilities framework application server.

Setting Permissions for the cistab file in UNIX

Every Oracle Utilities Application Framework environment installed on a server must be registered in the /etc/cistab file located on that server. On UNIX servers, generally only the root user ID has write permissions to the /etc directory. Since the installation process is run by the Oracle administrator user ID (cissys), this user ID may not be able to write to /etc/cistab table.

The install utility checks permissions and if it identifies a lack of the necessary permissions, it generates a script in the <TEMPDIR>/FW.V4.2.0.0.0 directory named cistab_<SPLENVIRON>.sh. Run the generated script using the root account before continuing with the installation process. The script initializes the cistab file in /etc directory (if it is the first

Oracle Utilities Framework application environment on the server) and registers a new environment.

The generated script also changes the owner of /etc/cistab file to the Oracle Utilities Framework administrator user ID, so that the next time a new environment is created by the same Oracle Utilities Framework administrator user ID, you do not need to run the generated script with the root user ID. Instead the install utility itself proceeds with the registration.

If you are reinstalling an existing environment, only the validation of /etc/cistab entry is done by the install utility, no new registration occurs. The install utility interactively instructs you about every step that needs to occur in each specific case.

If you are planning to upgrade an existing environment it is your responsibility to take a backup prior to the installation process. The installation utility does not create a backup of existing environment.

Installing the Application Component

This section outlines the steps for installing the application component of Oracle Utilities Application Framework.

1. Login to the Application Server host as administrator (the default is cissys on UNIX) or as a user with Administrator privileges (on Windows).
2. Change directory to the <TEMPDIR>/FW.V4.2.0.0.0 directory.
3. Set the ORACLE_CLIENT_HOME and PATH variables as Oracle Client Perl is required to run the installer.

UNIX:

```
export ORACLE_CLIENT_HOME=<ORACLE CLIENT INSTALL LOCATION>
export PERL_HOME=${ORACLE_CLIENT_HOME}/perl
export PATH=${PERL_HOME}/bin:$PATH
export PERL5LIB=${PERL_HOME}/lib:${PERL_HOME}/lib/site_perl:<OUAF
    Installer Decompressed location/bin/perl>
export PERLLIB=${PERL_HOME}/lib:${PERL_HOME}/lib/site_perl:<OUAF
    Installer Decompressed location/bin/perl>
export LD_LIBRARY_PATH=${ORACLE_CLIENT_HOME}/lib:$LD_LIBRARY_PATH
```

Windows:

```
set ORACLE_CLIENT_HOME=<ORACLE CLIENT INSTALL LOCATION>
set PERL_HOME=%ORACLE_CLIENT_HOME%\perl
set PATH=%PERL_HOME%\bin;%PATH%
```

4. Start the application installation utility by executing the appropriate script:

UNIX:

```
ksh ./install.sh
```

Windows:

```
install.cmd
```

5. The Oracle Utilities Application Framework specific menu appears.
6. Follow the messages and instructions that are produced by the application installation utility.
7. Select each menu item to configure the values. For detailed description of the values, refer to Appendix **Installation and Configuration Worksheets**.
8. Below are the mandatory list of configurable items along with descriptions for a few items. Where you see <Mandatory>, enter values suitable to your environment. You can assign default values to the rest of the menu items.

```

*****
* Environment Installation Options *
*****
1. Third Party Software Configuration
   Oracle Client Home Directory: <Mandatory>
   Web Java Home Directory:      <Mandatory>
   Child JVM Home Directory:
   COBOL Home Directory:
   Hibernate JAR Directory: <Mandatory>
   ONS JAR Directory:
   Web Application Server Home Directory: <Mandatory>
   ADF Home Directory:
   OIM OAM Enabled Environment:

50. Environment Installation Options
    Environment Mount Point: <Mandatory> - Install Location
    Log Files Mount Point:<Mandatory> - ThreadPoolWorker Logs
                                   Location

    Environment Name:<Mandatory>
    Web Application Server Type:
    Install Application Viewer Module:

```

Each item in the above list should be configured for a successful install.

Choose option (1,50, <P> Process, <X> Exit):

9. Once you enter 'P' after entering mandatory input values in the above menu, the system populates another configuration menu.

```

*****
* Environment Configuration *
*****
1. Environment Description
   Environment Description:      <Mandatory>

2. Business Application Server Configuration
   Business Server Host:        <Mandatory> - Hostname on which
                                   application being installed
   WebLogic Server Name:        myserver
   Business Server Application Name: SPLService
   MPL Admin Port Number:       <Mandatory> - Multipurpose Listener
                                   Port
   MPL Automatic startup:       false

3. Web Application Server Configuration
   Web Server Host:             <Mandatory>
   Web Server Port Number:      <Mandatory>
   Web Context Root:            ouaf
   WebLogic JNDI User ID:       <Mandatory>
   WebLogic JNDI Password:      <Mandatory>
   WebLogic Admin System User ID: <Mandatory>
   WebLogic Admin System Password: <Mandatory>
   WebLogic Server Name:        myserver
   Web Server Application Name:  SPLWeb
   Application Admin User ID:    <Mandatory>
   Application Admin Password:   <Mandatory>
   Expanded Directories:        false
   Application Viewer Module:    true

4. Database Configuration

```

```

Application Server Database User ID:      <Mandatory>
Application Server Database Password:    <Mandatory>
MPL Database User ID:                   <Mandatory>
MPL Database Password:                  <Mandatory>
XAI Database User ID:                   <Mandatory>
XAI Database Password:                  <Mandatory>
Batch Database User ID:                  <Mandatory>
Batch Database Password:                 <Mandatory>
Database Name:                          <Mandatory>
Database Server:                         <Mandatory>
Database Port:                           <Mandatory>
ONS Server Configuration:
Database Override Connection String:
Oracle Client Character Set NLS_LANG:

```

5. General Configuration Options

```

Batch RMI Port:                          <Mandatory> - RMI port
                                         for batch
Batch Mode:                              <Mandatory> - CLUSTERED
                                         or DISTRIBUTED
Coherence Cluster Name:                  <Mandatory> - Unique
                                         name for batch
Coherence Cluster Address:               <Mandatory> - Unique
                                         multicast address
Coherence Cluster Port:                  <Mandatory> - Unique
                                         port for batch cluster
Coherence Cluster Mode:                  <Mandatory> - prod

```

Each item in the above list should be configured for a successful install.

Choose option (1,2,3,4,5, <P> Process, <X> Exit):

10. When you are done with the parameter setup, proceed with the option P. The utility writes the configured parameters and their values into the configuration file.
11. Once the install has finished, the installation log location appears on the screen. If the log does not list any error messages, the installation of the application component of Oracle Utilities Application Framework is complete. You can now install Oracle Utilities Asset Management Base as described in the following section.

Installing Oracle Utilities Asset Management Base Application Component

This section describes how to install the application component of Oracle Utilities Asset Management Base, including:

- **Installing Prerequisite Patches**
- **Copying and Decompressing Install Media**
- **Installing the Application Component**
- **Performing Post-Installation Tasks**

Installing Prerequisite Patches

Oracle Utilities Application Framework patches must be installed prior to installing Oracle Utilities Asset Management Base.

Download the Oracle Utilities Application Framework V4.2.0.0.0 Single Fix Prerequisite Rollup for ODM V2.0.1.0.0 from Oracle Software Delivery Cloud.

The patches are available as a convenience rollup, ODM-V2.0.1.0.0-FW- PREREQ-Multiplatform.zip, which is included in the downloaded Media Pack.

Please refer to the instructions contained in ReadMe.txt file inside the rollup directory for steps to install the patches. For a list of the patches that are included in this rollup, refer to Appendix **Application Framework Prerequisite Patches**.

Copying and Decompressing Install Media

The Oracle Utilities Asset Management Base installation file is delivered in jar format for both UNIX and Windows platforms. If you are planning to install multiple Oracle Utilities Application Framework environments operated by different Oracle Utilities Administrator user ids, you must complete each of the following installation steps for each Administrator userid.

1. Log in to the application server as the Oracle Utilities Application Framework administrator user ID (default cissys). This is the same user ID that was used to install the Oracle Utilities Application Framework.
2. Download the Oracle Utilities Asset Management Base V2.0.1.0.0 Multiplatform from Oracle Software Delivery Cloud.
3. Create a <TEMPDIR> directory on the application server, which is independent of any current or other working Oracle Utilities Operational Device Management application environment. This can be the same <TEMPDIR> used during the installation of the Oracle Utilities Application Framework.
4. Copy the file AMB-V2.0.1.0.0-MultiPlatform.jar in the delivered package to a <TEMPDIR> on your application server. If you are using FTP to transfer this file, remember to use the BINARY option for the FTP transfer.
5. Decompress the file:

```
cd <TEMPDIR>
jar -xvf AMB-V2.0.1.0.0-MultiPlatform.jar
```

For Windows installations, include the location of the JDK in your path before you execute the jar command.

For both Unix and Windows platforms, a sub-directory named W1.V2.0.1.0.0 is created. The contents of the installation directory are identical for both platforms. The directory contains the install software for the application product.

Installing the Application Component

Follow the steps below to install the application component of Oracle Utilities Asset Management Base:

1. Log in to the application server host server as Oracle Utilities Asset Management Base Administrator (default cissys).
2. Change directory:

```
cd <install_dir>/bin
```

where <install_dir> is the location where the Oracle Utilities Application Framework application component is installed.
3. Initialize the Oracle Utilities Application Framework environment by running the appropriate command:

UNIX:

```
./splenviron.sh -e <ENV NAME>
```

Windows:

```
splenviron.cmd -e <ENV NAME>
```

4. If the environment is running, stop it by running the appropriate command:

UNIX:

```
./spl.sh stop
```

Windows:

```
spl.cmd stop
```

5. Change directory to the <TEMPDIR>/W1.V2.0.1.0.0 directory.
6. Execute the install script:

Note: On UNIX, ensure that you have the proper execute permission on install.sh

UNIX:

```
ksh ./install.sh
```

Windows:

```
install.cmd
```

7. The Oracle Utilities Operational Device Management Application specific menu appears.
8. The menu prompts you to confirm that the selected environment is correct. Press **Y** to confirm.
9. When you are done with the confirmation, proceed with the option **P**.
10. Once the install has finished successfully, execute the post-installation tasks.

Performing Post-Installation Tasks

Follow these steps to run the post install script:

1. Log in to the application server host server as Oracle Utilities Operational Device Management Administrator (default cissys).
2. Change directory:

```
cd <install_dir>/bin
```

where <install_dir> is the location where the Oracle Utilities Asset Management Base application component is installed.
3. Initialize the environment by running the appropriate command:

UNIX:

```
./splenv.sh -e <ENV NAME>
```

Windows:

```
splenv.cmd -e <ENV NAME>
```

4. Change to the <TEMPDIR>/W1.V2.0.1.0.0 directory.
5. Run the post-installation script:

UNIX:

```
ksh ./postinstall.sh
```

Windows:

```
postinstall.cmd
```

Continue to the next section to install the application component of Oracle Utilities Operational Device Management.

Installing the Oracle Utilities Operational Device Management Application

Component

This section describes how to install the application component of Oracle Utilities Operational Device Management, including:

- **Copying and Decompressing Install Media**
- **Installing the Application Component**
- **Performing Post-Installation Tasks**

Copying and Decompressing Install Media

The Oracle Utilities Operational Device Management installation file is delivered in jar format for both UNIX and Windows platforms.

To copy and decompress the install media, follow these steps:

1. Log in to the application server host as the Oracle Utilities Application Framework administrator user ID (default cissys). This is the same user ID that was used to install the Oracle Utilities Application Framework.
2. Download the Oracle Utilities Operational Device Management V2.0.1.0.0 Multiplatform from Oracle Software Delivery Cloud
3. Create a <TEMPDIR> directory on the host server, which is independent of any current or other working Oracle Utilities Operational Device Management application environment. This can be the same <TEMPDIR> used during the installation of the Oracle Utilities Application Framework.
4. Copy the file ODM-V2.0.1.0.0-MultiPlatform.jar in the delivered package to a <TEMPDIR> on your host server. If you are using FTP to transfer this file, remember to use the BINARY option for the FTP transfer.
5. Decompress the file:

```
cd <TEMPDIR>
jar -xvf ODM-V2.0.1.0.0-MultiPlatform.jar
```

For Windows installations, include the location of the JDK in your path before you execute the jar command.

For both Unix and Windows platforms, a sub-directory named W2.V2.0.1.0.0 is created. The contents of the installation directory are identical for both platforms. The directory contains the install software for the application product.

Installing the Application Component

Follow the steps below to install Oracle Utilities Operational Device Management application component:

1. Log in to the application server host as Oracle Utilities Operational Device Management Administrator (default cissys).
2. Change directory:

```
cd <install_dir>/bin
```

where <install_dir> is the location where the Oracle Utilities Asset Management Base application component is installed.

3. Initialize the environment by running the appropriate command:

UNIX:

```
./splenviron.sh -e <ENV NAME>
```

Windows:

```
splenviron.cmd -e <ENV NAME>
```

4. If the environment is running, stop it by running the appropriate command:

UNIX:

```
./spl.sh stop
```

Windows:

```
spl.cmd stop
```

5. Change to the <TEMPDIR>/W2.V2.0.1.0.0 Directory.
6. Execute the install script:

Note: On UNIX, ensure that you have the proper execute permission on install.sh.

UNIX:

```
ksh ./install.sh
```

Windows:

```
install.cmd
```

Once the install has finished successfully, execute post installation steps as described in the following section, Post installation Tasks.

Performing Post-Installation Tasks

1. Run the post install script by following the steps below:

- a. Change directory.

```
cd <install_dir>/bin
```

where <install_dir> is the location where the Oracle Utilities Operational Device Management application component is installed.

- b. Initialize the environment by running the appropriate command:

UNIX:

```
./splenviron.sh -e <ENV NAME>
```

Windows:

```
splenviron.cmd -e <ENV NAME>
```

- a. Change to the <TEMPDIR>/W2.V2.0.1.0.0

- b. Run the post-installation script:

UNIX:

```
ksh ./postinstall.sh
```

Windows:

```
postinstall.cmd
```

3. Generate the appviewer by following the steps below:

- a. Change the directory.

```
cd <install_dir>/bin ,
```

where <install_dir> is Oracle Utilities Operational Device Management Application Component installation directory

-
- b. Run the script to generate the appviewer.

UNIX:

```
ksh ./genappvieweritems.sh
```

Windows:

```
genappvieweritems.cmd
```

After the Installation

After you complete the installation, verify the following:

1. Verify installation logs created under decompressed installer location for any errors.
2. Confirm installation logs do not contain any errors.
3. Confirm all the configurations are correct. Refer to Appendix **Installation and Configuration Worksheets** for details.
4. Confirm that the database is ready.
5. Generate appviewer.
6. Start the application server. For instructions, refer to Appendix **Common Maintenance Activities**.
7. To operate the application, refer to the following section.

Operating the Application

At this point your installation and custom integration process is complete. Be sure to read the *Oracle Utilities Operational Device Management Server Administration Guide* for more information on further configuring and operating the system.

Installing Service Packs and Patches

Periodically, Oracle Utilities releases a service pack of single fixes for its products. A service pack is an update to an existing release that includes solutions to known problems and other product enhancements. A service pack is not a replacement for an installation, but a pack consisting of a collection of changes and additions for it. The service pack may include changes to be applied to the application server, the database, or both. The service pack includes all files necessary for installing the collection of changes, including installation instructions.

Between services packs, Oracle Utilities releases patches to fix individual bugs. For information on installing patches, refer to knowledge base article ID 974985.1 on My Oracle Support.

Service packs and patches can be downloaded from My Oracle Support (<https://support.oracle.com/>).

Chapter 6

Upgrading Oracle Utilities Operational Device Management

This chapter provides instructions for upgrading Oracle Utilities Operational Device Management from version 2.0.0 to version 2.0.1.0. This chapter includes:

- **Before You Upgrade**
- **Upgrade Procedure**
- **After the Upgrade**
- **Operating the Application**
- **Installing Service Packs and Patches**

Before You Upgrade

Review the list of operating system, application server and database server combinations that this version of Oracle Utilities Operational Device Management is certified to operate on, in the chapter **Supported Platforms and Hardware Requirements**.

For further assistance, contact My Oracle Support before you upgrade.

Note: If you are upgrading a previously installed application server, it is recommended that you make a backup before you start the upgrade procedure. The upgrade installation will remove your existing environment including your configurations.

Upgrade Procedure

The upgrade installation procedure consists of:

- **Database Component Upgrade**
- **Application Components Upgrade**

Database Component Upgrade

Upgrade of the database component of Oracle Utilities Operational Device Management must be complete before you can proceed with the following sections. Refer to the section “**Upgrade Install**” of the *Oracle Utilities Operational Device Management Database Administrator's Guide*, which provides instructions on upgrading the database component.

Application Components Upgrade

A successful upgrade consists of the following steps:

- **Upgrading the Oracle Utilities Application Framework Application Component**
- **Upgrading the Oracle Utilities Asset Management Base Application Component**
- **Upgrading the Oracle Utilities Operational Device Management Application Component**

Upgrading the Oracle Utilities Application Framework Application Component

This section describes how to upgrade the application component of Oracle Utilities Application Framework, including:

- **Copying and Decompressing Install Media**
- **Setting Permissions for the cistab file in UNIX**
- **Upgrading the Application Component**

Copying and Decompressing Install Media

The Oracle Utilities Application Framework installation file is delivered in jar format for both UNIX and Windows platforms. If you are planning to install multiple Oracle Utilities Application Framework environments operated by different Oracle Utilities administrator user ids, you must complete each of the following installation steps for each administrator userid.

To copy and decompress the install media, follow these steps:

1. Log in to the application server host with the Oracle Utilities Application Framework administrator user ID.
2. Download the Oracle Utilities Application Framework V4.2.0.0.0 Multiplatform from Oracle Software Delivery Cloud.
3. Create a temporary directory such as c:\ouaf\temp or /ouaf/temp. (Referred to below as <TEMPDIR>.)

Note: This directory must be located outside any current or other working Oracle Utilities application environment. All files that are placed in this directory as a part of the installation can be deleted after completing a successful installation.

4. Copy the file FW-V4.2.0.0.0-MultiPlatform.jar from the delivered package to the <TEMPDIR>. If you are using FTP to transfer this file, remember to use the BINARY option for the FTP transfer.
5. Decompress the file:

```
cd <TEMPDIR>
jar -xvf FW-V4.2.0.0.0-MultiPlatform.jar
```

Note: You will need to have Java JDK installed on the machine used to (un)jar the application server installation package. Please install the JDK that is supported for the install on your platform to be able to use the jar command. This is the location of Java packages: <http://www.oracle.com/technetwork/java/archive-139210.html>

A sub-directory named "FW.V4.2.0.0.0" is created. It contains the installation software for the Oracle Utilities framework application server.

Setting Permissions for the cistab file in UNIX

Every Oracle Utilities Application Framework environment installed on a server must be registered in the /etc/cistab file located on that server. On UNIX servers, generally only the root

user ID has write permissions to the /etc directory. Since the installation process is run by the Oracle administrator user ID (cissys), this user ID may not be able to write to /etc/cistab table.

The install utility checks permissions and if it identifies a lack of the necessary permissions, it generates a script in the <TEMPDIR>/FW.V4.2.0.0.0 directory named cistab_<SPLENVIRON>.sh. Run the generated script using the root account before continuing with the installation process. The script initializes the cistab file in /etc directory (if it is the first Oracle Utilities Framework application environment on the server) and registers a new environment.

The generated script also changes the owner of /etc/cistab file to the Oracle Utilities Framework administrator user ID, so that the next time a new environment is created by the same Oracle Utilities Framework administrator user ID, you do not need to run the generated script with the root user ID. Instead the install utility itself proceeds with the registration.

If you are reinstalling an existing environment, only the validation of /etc/cistab entry is done by the install utility, no new registration occurs. The install utility interactively instructs you about every step that needs to occur in each specific case.

If you are planning to upgrade an existing environment it is your responsibility to take a backup prior to the upgrade process. The installation utility does not create a backup of existing environment.

Upgrading the Application Component

This section outlines the steps for upgrading the application component of Oracle Utilities Application Framework.

1. Login to the Application Server host as administrator (the default is cissys on UNIX) or as a user with Administrator privileges (on Windows).

2. Change directory to the bin folder.

```
cd <install_dir>/bin
```

where <install_dir> is the location where the Oracle Utilities Asset Management Base application component is installed.

3. Initialize the environment by running the appropriate command:

UNIX:

```
./splenvron.sh -e <ENV NAME>
```

Windows:

```
splenvron.cmd -e <ENV NAME>
```

4. Change directory to the <TEMP_DIR>/FWV4.2.0.0.0 directory.

NOTE: While installing the FW V4.2.0.0.0. from the previous environment v2.0.0 to v2.0.1.0 the install utility removes the existing environment and re-creates the environment. Make a backup before you proceed with installing FW V4.2.0.0 to retain any configurations for future reference.

5. Start the application installation utility by executing the appropriate script:

UNIX:

```
ksh ./install.sh
```

Windows:

```
install.cmd
```

6. The Oracle Utilities Application Framework specific menu appears.

-
7. Follow the messages and instructions that are produced by the application installation utility.
 8. Select each menu item to configure the values. For detailed description of the values, refer to Appendix **Installation and Configuration Worksheets**.
 9. Below are the mandatory list of configurable items along with descriptions for a few items. Where you see <Mandatory>, enter values suitable to your environment. You can assign default values to the rest of the menu items.

```
*****
* Environment Installation Options *
*****
```

1. Third Party Software Configuration
 - Oracle Client Home Directory: <Mandatory>
 - Web Java Home Directory: <Mandatory>
 - Child JVM Home Directory:
 - COBOL Home Directory:
 - Hibernate JAR Directory: <Mandatory>
 - ONS JAR Directory:
 - Web Application Server Home Directory: <Mandatory>
 - ADF Home Directory:
 - OIM OAM Enabled Environment:

50. Environment Installation Options
 - Environment Mount Point: <Mandatory> - *Install Location*
 - Log Files Mount Point: <Mandatory> - *ThreadPoolWorker Logs Location*
 - Environment Name: <Mandatory>
 - Web Application Server Type: WLS
 - Install Application Viewer Module: true

Each item in the above list should be configured for a successful install.

Choose option (1,50, <P> Process, <X> Exit):

10. Once you enter 'P' after entering mandatory input values in the above menu, the system populates another configuration menu.

```
*****
* Environment Configuration *
*****
```

1. Environment Description
 - Environment Description: <Mandatory>
2. Business Application Server Configuration
 - Business Server Host: <Mandatory> - *Hostname on which application being installed*
 - WebLogic Server Name: myserver
 - Business Server Application Name: SPLService
 - MPL Admin Port Number: <Mandatory> - *Multipurpose Listener Port*
 - MPL Automatic startup: false
3. Web Application Server Configuration
 - Web Server Host: <Mandatory>
 - Web Server Port Number: <Mandatory>
 - Web Context Root: ouaf
 - WebLogic JNDI User ID: <Mandatory>
 - WebLogic JNDI Password: <Mandatory>
 - WebLogic Admin System User ID: <Mandatory>
 - WebLogic Admin System Password: <Mandatory>

```

WebLogic Server Name:          myserver
Web Server Application Name:    SPLWeb
Application Admin User ID:      <Mandatory>
Application Admin Password:     <Mandatory>
Expanded Directories:          false
Application Viewer Module:      true

```

4. Database Configuration

```

Application Server Database User ID:  <Mandatory>
Application Server Database Password: <Mandatory>
MPL Database User ID:                <Mandatory>
MPL Database Password:               <Mandatory>
XAI Database User ID:                <Mandatory>
XAI Database Password:               <Mandatory>
Batch Database User ID:              <Mandatory>
Batch Database Password:             <Mandatory>
Database Name:                      <Mandatory>
Database Server:                    <Mandatory>
Database Port:                      <Mandatory>
ONS Server Configuration:
Database Override Connection String:
Oracle Client Character Set NLS_LANG:

```

5. General Configuration Options

```

Batch RMI Port:                    <Mandatory> - RMI port
                                   for batch
Batch Mode:                        <Mandatory> - CLUSTERED
                                   or DISTRIBUTED
Coherence Cluster Name:           <Mandatory> - Unique
                                   name for batch
Coherence Cluster Address:        <Mandatory> - Unique
                                   multicast address
Coherence Cluster Port:           <Mandatory> - Unique
                                   port for batch cluster
Coherence Cluster Mode:           <Mandatory> - prod

```

Each item in the above list should be configured for a successful install.

Choose option (1,2,3,4,5, <P> Process, <X> Exit):

11. When you are done with the parameter setup, proceed with the option P. The utility writes the configured parameters and their values into the configuration file.
12. Once the upgrade install has finished, the installation log location appears on the screen. If the log does not list any error messages, the upgrade installation of the application component of Oracle Utilities Application Framework is complete. You can now upgrade Oracle Utilities Asset Management Base as described in the following section.

Upgrading the Oracle Utilities Asset Management Base Application Component

This section describes how to upgrade the application component of Oracle Utilities Asset Management Base, including:

- **Installing Prerequisite Patches**
- **Copying and Decompressing Install Media**
- **Upgrading the Application Component**
- **Performing Post-Upgrade Tasks**

Installing Prerequisite Patches

Oracle Utilities Application Framework patches must be installed prior to installing Oracle Utilities Asset Management Base.

Download the Oracle Utilities Application Framework V4.2.0.0.0 Single Fix Prerequisite Rollup for ODM v2.0.1.0.0 from Oracle Software Delivery Cloud.

The patches are available as a convenience rollup, ODM-V2.0.1.0.0-FW- PREREQ-Multiplatform.zip, which is included in the downloaded Media Pack.

Please refer to the instructions contained in ReadMe.txt file inside the rollup directory for steps to install the patches. For a list of the patches that are included in this rollup, refer to Appendix **Application Framework Prerequisite Patches**.

Copying and Decompressing Install Media

The Oracle Utilities Asset Management Base installation file is delivered in jar format for both UNIX and Windows platforms. If you are planning to install multiple Oracle Utilities Application Framework environments operated by different Oracle Utilities Administrator user ids, you must complete each of the following installation steps for each Administrator userid.

1. Log in to the application server as the Oracle Utilities Application Framework administrator user ID (default cissys). This is the same user ID that was used to install the Oracle Utilities Application Framework.
2. Download the Oracle Utilities Asset Management Base v2.0.1.0.0 Multiplatform from Oracle Software Delivery Cloud.
3. Create a <TEMPDIR> directory on the application server, which is independent of any current or other working Oracle Utilities Operational Device Management application environment. This can be the same <TEMPDIR> used during the installation of the Oracle Utilities Application Framework.
4. Copy the file AMB-v2.0.1.0.0-MultiPlatform.jar in the delivered package to a <TEMPDIR> on your application server. If you are using FTP to transfer this file, remember to use the BINARY option for the FTP transfer.
5. Decompress the file:

```
cd <TEMPDIR>
jar -xvf AMB-v2.0.1.0.0-MultiPlatform.jar
```

For Windows installations, include the location of the JDK in your path before you execute the jar command.

For both Unix and Windows platforms, a sub-directory named W1.v2.0.1.0.0 is created. The contents of the installation directory are identical for both platforms. The directory contains the install software for the application product.

Upgrading the Application Component

Follow the steps below to install the application component of Oracle Utilities Asset Management Base:

1. Log in to the application server host server as Oracle Utilities Asset Management Base Administrator (default cissys).
2. Change directory:

```
cd <install_dir>/bin
```

where <install_dir> is the location where the Oracle Utilities Application Framework application component is installed.
3. Initialize the Oracle Utilities Application Framework environment by running the appropriate command:

UNIX:

```
./splenviron.sh -e <ENV NAME>
```

Windows:

```
splenviron.cmd -e <ENV NAME>
```

4. If the environment is running, stop it by running the appropriate command:

UNIX:

```
./spl.sh stop
```

Windows:

```
spl.cmd stop
```

5. Change directory to the <TEMPDIR>/W1.v2.0.1.0.0 directory.

6. Execute the install script:

Note: On UNIX, ensure that you have the proper execute permission on install.sh

UNIX:

```
ksh ./install.sh
```

Windows:

```
install.cmd
```

7. The Oracle Utilities Operational Device Management Application specific menu appears.
8. The menu prompts you to confirm that the selected environment is correct. Press **Y** to confirm.
9. When you are done with the confirmation, proceed with the option **P**.
10. Once the upgrade install has finished successfully, execute the post-upgrade tasks.

Performing Post-Upgrade Tasks

Follow these steps to run the post install script:

1. Log in to the application server host server as Oracle Utilities Operational Device Management Administrator (default cissys).

2. Change directory:

```
cd <install_dir>/bin
```

where <install_dir> is the location where the Oracle Utilities Asset Management Base application component is installed.

3. Initialize the environment by running the appropriate command:

UNIX:

```
./splenviron.sh -e <ENV NAME>
```

Windows:

```
splenviron.cmd -e <ENV NAME>
```

4. Change to the <TEMPDIR>/W1.v2.0.1.0.0 directory.

5. Run the post-installation script:

UNIX:

```
ksh ./postinstall.sh
```

Windows:

```
postinstall.cmd
```

Continue to the next section to install the application component of Oracle Utilities Operational Device Management.

Upgrading the Oracle Utilities Operational Device Management Application Component

This section describes how to install the application component of Oracle Utilities Operational Device Management, including:

- **Copying and Decompressing Install Media**
- **Upgrading the Application Component**
- **Performing Post-Upgrade Tasks**

Copying and Decompressing Install Media

The Oracle Utilities Operational Device Management installation file is delivered in jar format for both UNIX and Windows platforms.

To copy and decompress the install media, follow these steps:

1. Log in to the application server host as the Oracle Utilities Application Framework administrator user ID (default cissys). This is the same user ID that was used to install the Oracle Utilities Application Framework.
2. Download the Oracle Utilities Operational Device Management v2.0.1.0.0 Multiplatform from Oracle Software Delivery Cloud.
3. Create a <TEMPDIR> directory on the host server, which is independent of any current or other working Oracle Utilities Operational Device Management application environment. This can be the same <TEMPDIR> used during the installation of the Oracle Utilities Application Framework.
4. Copy the file ODM-v2.0.1.0.0-MultiPlatform.jar in the delivered package to a <TEMPDIR> on your host server. If you are using FTP to transfer this file, remember to use the BINARY option for the FTP transfer.
5. Decompress the file:

```
cd <TEMPDIR>
jar -xvf ODM-v2.0.1.0.0-MultiPlatform.jar
```

For Windows installations, include the location of the JDK in your path before you execute the jar command.

For both Unix and Windows platforms, a sub-directory named W2.V2.0.1.0.0 is created. The contents of the installation directory are identical for both platforms. The directory contains the install software for the application product.

Upgrading the Application Component

Follow the steps below to install Oracle Utilities Operational Device Management application component:

1. Log in to the application server host as Oracle Utilities Operational Device Management Administrator (default cissys).
2. Change directory:

```
cd <install_dir>/bin
```

where <install_dir> is the location where the Oracle Utilities Asset Management Base application component is installed.

3. Initialize the environment by running the appropriate command:

UNIX:

```
./splenviron.sh -e <ENV NAME>
```

Windows:

```
splenviron.cmd -e <ENV NAME>
```

4. If the environment is running, stop it by running the appropriate command:

UNIX:

```
./spl.sh stop
```

Windows:

```
spl.cmd stop
```

5. Change to the <TEMPDIR>/W2.V2.0.1.0.0 Directory.

6. Execute the install script:

Note: On UNIX, ensure that you have the proper execute permission on install.sh.

UNIX:

```
ksh ./install.sh
```

Windows:

```
install.cmd
```

Once the upgrade install has finished successfully, execute post upgrade steps as described in the following section, Post Upgrade Tasks.

Performing Post-Upgrade Tasks

1. Run the post upgrade script by following the steps below:

- a. Change directory.

```
cd <install_dir>/bin
```

where <install_dir> is the location where the Oracle Utilities Operational Device Management application component is installed.

- b. Initialize the environment by running the appropriate command:

UNIX:

```
./splenviron.sh -e <ENV NAME>
```

Windows:

```
splenviron.cmd -e <ENV NAME>
```

- a. Change to the <TEMPDIR>/W2.V2.0.1.0.0

- b. Run the post-installation script:

UNIX:

```
ksh ./postinstall.sh
```

Windows:

```
postinstall.cmd
```

3. Generate the appviewer by following the steps below:

- a. Change the directory.

```
cd <install_dir>/bin
```

where <install_dir> is Oracle Utilities Operational Device Management Application Component installation directory

- b. Run the script to generate the appviewer.

UNIX:

```
ksh ./genappvieweritems.sh
```

Windows:

```
genappvieweritems.cmd
```

After the Upgrade

After you complete the upgrade installation, verify the following:

1. Verify installation logs created under decompressed installer location for any errors.
2. Confirm installation logs do not contain any errors.
3. Confirm all the configurations are correct. Refer to Appendix **Installation and Configuration Worksheets** for details.
4. Confirm that the database is ready.
5. Generate appviewer.
6. Start the application server. For instructions, refer to Appendix **Common Maintenance Activities**.
7. To operate the application, refer to the following section.

Operating the Application

At this point your installation and custom integration process is complete. Be sure to read the *Oracle Utilities Operational Device Management Server Administration Guide* for more information on further configuring and operating the system.

Installing Service Packs and Patches

Periodically, Oracle Utilities releases a service pack of single fixes for its products. A service pack is an update to an existing release that includes solutions to known problems and other product enhancements. A service pack is not a replacement for an installation, but a pack consisting of a collection of changes and additions for it. The service pack may include changes to be applied to the application server, the database, or both. The service pack includes all files necessary for installing the collection of changes, including installation instructions.

Between services packs, Oracle Utilities releases patches to fix individual bugs. For information on installing patches, refer to knowledge base article ID 974985.1 on My Oracle Support.

Service packs and patches can be downloaded from My Oracle Support (<https://support.oracle.com/>).

Chapter 7

Additional Tasks

This section describes tasks that should be completed after installing Oracle Utilities Operational Device Management, including:

- **WebLogic Production Server Considerations**
- **Building Javadoc Indexes**
- **Configuring the Environment for Batch Processing**
- **Customizing the Logo**

WebLogic Production Server Considerations

By default, WebLogic Server is configured with two keystores, to be used for development only. These keystores should not be used in a production environment.

Configuring Identity and Trust

Private keys, digital certificates, and trusted certificate authority certificates establish and verify identity and trust in the WebLogic Server environment. WebLogic Server is configured with a default identity keystore `DemoIdentity.jks` and a default trust keystore `DemoTrust.jks`. In addition, WebLogic Server trusts the certificate authorities in the `cacerts` file in the JDK. This default keystore configuration is appropriate for testing and development purposes. However, these keystores should not be used in a production environment.

To configure identity and trust for a server:

1. Obtain digital certificates, private keys, and trusted CA certificates from the CertGen utility, Sun Microsystems's keytool utility, or a reputable vendor such as Entrust or Verisign. You can also use the digital certificates, private keys, and trusted CA certificates provided by the WebLogic Server kit. The demonstration digital certificates, private keys, and trusted CA certificates should be used in a development environment only.
2. Store the private keys, digital certificates, and trusted CA certificates. Private keys and trusted CA certificates are stored in a keystore.
3. Configure the identity and trust keystores for a WebLogic Server instance on the Configuration: Keystores page.

By default, WebLogic Server is configured with two keystores, to be used for development only.

- `DemoIdentity.jks`: Contains a demonstration private key for WebLogic Server. This keystore establishes an identity for WebLogic Server.
- `DemoTrust.jks`: Contains a list of certificate authorities trusted by WebLogic Server. This keystore establishes trust for WebLogic Server.

These keystores are located in the WL_HOME\server\lib directory and the JAVA_HOME\jre\lib\security directory. For testing and development purposes, the keystore configuration is complete. Use the steps in this section to configure identity and trust keystores for production use.

Refer to the WebLogic documentation to configure identity and trust keystores for production use (Secure servers and resources > Configure identity and trust/Set up SSL)

Note: Depending on your choice of implementation you may need to change some configuration files. These files are managed by templates and will be overwritten if the procedures documented in “Customizing Configuration Files” are not followed.

Building Javadoc Indexes

The following script rebuilds the Javadocs indexes in the application viewer java module. This is necessary after customer modifications (CM) have been applied to an environment. You need to run this script only if the customer modification includes Java code.)

Windows:

```
%SPLEBASE%\bin\buildJavadocsIndex.cmd
```

UNIX:

```
ksh $SPLEBASE/bin/buildJavadocsIndex.sh
```

Configuring the Environment for Batch Processing

See the *Batch Server Administration Guide* for information on configuring the environment for batch processing.

Customizing the Logo

To replace the Oracle Utilities logo on the main menu with another image, put the new image <customer_logo_file>.gif file into the directory \$SPLEBASE/etc/conf/root/cm and create a new “External” Navigation Key called CM_logoImage. To do that, run the Oracle Utilities application from the browser with the parameters: http://<hostname>:<port>/cis.jsp?utilities=true&tools=true. From the Admin menu, select Navigation Key. Add the above Navigation Key with its corresponding URL Override path. The syntax for the URL path is:

Windows:

```
http://<host name>:<port>/<Web Context>/cm/<customer_logo_file>.gif
```

UNIX:

```
http://<host name>:<port>/<Web Context>/cm/<customer_logo_file>.gif.
```

The root directory may be deployed in war file format for runtime environment (SPLApp.war). Use provided utilities to incorporate your cm directory into SPLApp.war file.

Appendix A

Installation Menu Functionality Overview

Installation Menu Functionality Overview

The main configuration menu is structured so that related variables and/or options are grouped together and are associated by a menu item number. To access a particular group of variables and options, enter the menu item number associated with that group. Each option within that group is displayed in turn on the screen, along with a prompt so that you can type the desired value for the option, if it is not the same as the default or current value.

When performing the initial installation you need to go through all menu options. The menu options may have a default value, a list of valid values and a validation check.

On each option prompt you can keep the current value by simply leaving the input line empty. In order to erase a variable value you need to enter one dot (“.”). The leading spaces will be trimmed out on each values entered.

Note: When working with the menu you will see the following:

- **Valid Values: [ALFANUM].** This indicates you will need to enter an alphanumeric value in the prompt.
- **Valid Values: [NUM].** This indicates you will need to enter a numeric value in the prompt.

When all options are set, type <P> at the main menu prompt option. This will save the option values selected throughout the configuration.

During this processing the global variables are validated and the configuration file <SPLEBASE>/etc/ENVIRON.INI is created or updated. This file contains all the variables inputted and calculated. These are needed by the next part of the installation process.

To exit the configuration utility without saving any of the values entered, type <X> and 'Enter'

Installation Menu Functionality Details

The Environment Installation Utility requires that Oracle Client Home is set in the path for the user performing the installation.

Prior to running the installation utility you will need to review the supported platforms document to ensure you have all of the Third Party software installed.

In this menu if the variables are set prior to execution, that value will be defaulted by the installation utility when performing the installation.

When the installation has been completed successfully, the values will be written to an ENVIRON.INI file. When splenviron.sh / cmd is executed, it will read from the ENVIRON.INI file to set the environment variables.

In the worksheets there are three different types of values given:

- Default Values are the values that will be defaulted when running the installation utility.
- Security Values denote values that should be changed when in production.
- Example Values are values that can be used for a default installation.

Note: The production environment should not be run with default values. See the *Oracle Utilities Operational Device Management Server Administration Guide* for additional information about configuring these values.

When you enter passwords you will not see the password characters on the screen because they are entered in silent mode. Passwords are encrypted when the values are entered.

Install the Oracle Client software specified in the section **Supported Platforms** prior to running any of the installation utilities.

The following prompt will appear when executing the installation utility:

```
Enter Oracle Client Home Directory (<ENTER> quit):
```

Note: If the environmental variable ORACLE_CLIENT_HOME is set, the install script will validate the variable. If it passes the validation you will not be prompted for it. This is needed in order to run Perl installation utilities.

Encryption Methods

When the application server choice is WebLogic, the Oracle Utilities Application Framework installation uses the Oracle WebLogic API to encrypt the User ID and password that perform admin functions for the WebLogic application servers. Please refer to the Oracle WebLogic documentation for further information about the encryption.

The Oracle Utilities Application Framework installation also uses industry standard cryptography to encrypt passwords that are prompted within the installation.

In each case these password are entered in the command line but the inputted values are not reflected on the screen when performing the installation.

Appendix B

Installation and Configuration Worksheets

Application Framework Installation and Configuration Worksheets

Third Party Software Configuration

```
*****
* Environment Installation Options *
*****
1. Third Party Software Configuration
   Oracle Client Home Directory:
   Web Java Home Directory:
   Child JVM Home Directory:
   COBOL Home Directory:
   Hibernate JAR Directory:
   ONS JAR Directory:
   Web Application Server Home Directory:
   ADF Home Directory:
   OIM OAM Enabled Environment:
```

Table 1: Installation Menu 1, Third Party Software Configuration

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Oracle Client Home Directory	ORACLE_CLIENT_HOME	The home directory of the Oracle Client. The application will use the Perl included under this Oracle Client. Example Location: /oracle/client/product/11.2.0.1/	
Web Java Home Directory	JAVA_HOME	Java home that will be used by the web application server. Example Location: /ouaf/java/jdk1.6.0_20	

Table 1: Installation Menu 1, Third Party Software Configuration

Menu Option	Name Used in Documentation	Usage	Customer Install Value
* Child JVM Home Directory	CHILD_JVM_JAVA_HOME	Java home that will be used by the child Java process that handles COBOL related requests. Example Location: /ouaf/java/jdk1.6.0_20 Note: This menu option is optional for Oracle Utilities Operational Device Management 2.0.1.0. Press Enter to skip this value.	
COBOL Home Directory	COBDIR	COBOL installation location directory. Example Location: /opt/SPLcobAS51WP6 Note: This menu option is not applicable to Oracle Utilities Operational Device Management. Note: This value is optional for ODM 2.0.1.0. Press Enter to skip this value.	
Hibernate JAR Directory	HIBERNATE_JAR_DIR	Location of the Hibernate jar directory on the disk.	
** ONS JAR Directory	ONS_JAR_DIR	Location on the disk where the ons-11.2.0.1.jar file is installed. **Required for Oracle RAC installation. Refer to the Server Administration Guide for more information.	
Web Application Server Home Directory	WEB_SERVER_HOME	Location on the disk where the application server is installed. Example Location: WebLogic: /ouaf/middleware/wlserver_10.3 To validate the home directory, check if the following jar files exist in the appropriate path: \$WEB_SERVER_HOME/server/lib/weblogic.jar %WEB_SERVER_HOME%\server\lib\weblogic.jar	
* ADF Home Directory	ADF_HOME	Note: This menu option is not applicable to Oracle Utilities Operational Device Management.	Press Enter to skip this value.
OIM OAM Enabled Environment	OPEN_SPML_ENABLE_D_ENV	Denotes if an environment will be integrating with Oracle Identity Manager for user propagation. Valid values: true false Defaulted value: false	

* Denotes optional Menu Options that may be required for the product installation and variables.

** In order to activate the RAC FCF, the application needs the external ons.jar file, version 11.2.0.1. This ons.jar is located under the Oracle Database Software 11.2.0.1, at the following path:

`$ORACLE_HOME/opmn/lib/ons.jar`

The ons.jar should be copied to the Application Server. During the Oracle Utilities Application Framework installation the relevant option should be populated with the folder location of the ons.jar.

Environment Installation Options

50. Environment Installation Options

Environment Mount Point:

Log Files Mount Point:

Environment Name:

Web Application Server Type:

WLS

Install Application Viewer Module:

true

Table 2: Installation Menu 50, Environment Installation Options

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Environment Mount Point	<SPDIR>	<p>The mount point into which the application is installed. For example: /ouaf for UNIX and C:\ouaf for Windows.</p> <p>This mount point MUST exist and the ODM administrator user ID MUST be able to write to this directory. (This is the user ID that is created specifically to administer the (ODM) environments; the default is cissys). The installation sets permissions on all subdirectories installed under this directory.</p> <p>See <SPENVIRON> below for more information on how this mount point is used.</p>	
Log File Mount Point	<SPDIROUT>	<p>A mount point that will contain any application output or application logs. Example value is /ouaf/spoutput for UNIX installation or C:\ouaf\spoutput for Windows.</p> <p>This mount point MUST exist and the ODM administrator user ID MUST be able to write to this directory. (This is the user ID that is created specifically to administer the (ODM) environments; the default is cissys).</p> <p>For each environment initialized, the application logs will be written to the directory <SPDIROUT>/<SPENVIRON></p> <p>Note: Later in the installation the splenvron.sh (splenvron.cmd) script will set the \$SPOUTPUT (%SPOUTPUT%) environment variable to point to:<SPDIROUT>/<SPENVIRON></p>	

Table 2: Installation Menu 50, Environment Installation Options

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Environment Name	<SPLENVIRON>	<p>A descriptive name to be used as both a directory name under the mount point <SPLDIR> and an environment descriptor. This value typically identifies the purpose of the environment. For example, DEV01 or CONV.</p> <p>On installation a directory <SPLDIR>/<SPLENVIRON> is created, under which the Oracle Utilities Application Framework and Oracle Utilities Operational Device Management software resides.</p> <p>When multiple environments are set up on the machine you will typically have directories such as: /ouaf/DEV01/.... /ouaf/CONV/....</p> <p>Each of these contains a complete version of the Oracle Utilities Application Framework and Oracle Utilities Operational Device Management.</p>	
Web Application Server Type	<SPLWAS>	<p>A web application server for the environment to be used. The following value must be selected:</p> <p>Valid values: WLS: WebLogic WAS: WebSphere WASND: WebSphere ND</p> <p>Note: Not all web application servers are supported on all platforms; refer to Supported Platforms and Hardware Requirements on page 2-1 for details.</p>	
Installation Application Viewer Module	<WEB_ISAPPVIEWER>	<p>Denotes if the Application Viewer Web Module will be installed in the environment. When this value is set to false the application viewer will not be accessible in the environment.</p> <p>Valid values: true: Application Viewer module will be installed. false: Application Viewer module will not be installed.</p> <p>Defaulted value: true</p> <p>Note: When the value of false is selected, the Application Viewer will only be installed at a later date by a complete reinstall of the application.</p>	

Environment Description

1. Environment Description
Environment Description:

Table 3: Installation Menu 1, Environment Description

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Environment Description	DESC	This is a free form text field to describe the purpose of the environment.	

WebLogic Business Application Server Configuration

The WebLogic parameters below and in the worksheet are for a WebLogic installation.

2. Business Application Server Configuration

Business Server Host:	<machine_name>
WebLogic Server Name:	myserver
Business Server Application Name:	SPLService
MPL Admin Port Number:	
MPL Automatic startup:	false

Table 4: Installation Menu 2, Business Application Server Configuration

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Business Server Host	BSN_WLHOST	The host name on which business application server resides.	
WebLogic Server Name	BSN_WLS_SVRNAME	The name of the WebLogic server where the business application resides. Default value: myserver Note: If there is not a previously created WebLogic server, take the default value of “myserver”.	
Business Server Application Name	BSN_APP	The name of the business application server. Default value: SPLService	
MPL Admin Port number	MPLADMINPORT	The port number for the Multi Purpose Listener (MPL) Admin Server. Example value: 6502	
MPL Automatic Startup	MPLSTART	Automatically starts the MPL Listener whenever environment starts. Default value: false	

WebLogic Web Application Server Configuration

The WebLogic parameters below and in the worksheet are for a WebLogic installation.

3. Web Application Server Configuration

Web Server Host:	<machine_name>
Web Server Port Number:	
Web Context Root:	ouaf
WebLogic JNDI User ID:	
WebLogic JNDI Password:	
WebLogic Admin System User ID:	
WebLogic Admin System Password:	
WebLogic Server Name:	myserver
Web Server Application Name:	SPLWeb
Application Admin User ID:	
Application Admin Password:	
Expanded Directories:	false
Application Viewer Module:	true

Table 5: Installation Menu 3, WebLogic Web Application Server Configuration

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Web Server Host	WEB_WLHOST	The host name on which the web application server resides. Default value: <current server name>	
Web Server Port Number	WEB_WLPORT	A unique port number within the system that will be assigned to the HTTP port. This is the port number that is used as a part of the client URL request to connect to the host. Example value: 6500	
Web Context Root	WEB_CONTEXT_ROOT	A context root name that allows customers to run multiple instances of web application on the same server. Default value: ouaf	
WebLogic JNDI User ID	WEB_WLSYSUSER	The user ID the application uses to connect to the EJB component through JNDI. This is the EJB container user ID. Note: If there is no previously created WebLogic user, specify the value as “system”. This is a security value.	
WebLogic JNDI Password	WEB_WLSYSPASS	The password the application uses to connect to the EJB component through JNDI Note: If WebLogic JNDI User ID was set to “system”, specify the value of “ouafadmin” for password. This value will be saved in encrypted format. This is a security value.	

Table 5: Installation Menu 3, WebLogic Web Application Server Configuration

Menu Option	Name Used in Documentation	Usage	Customer Install Value
WebLogic Admin System User ID	WLS_WEB_WLSYSUSER	<p>The user ID to log in to the Oracle WebLogic console and to administer Oracle WebLogic. The Oracle WebLogic startup and stop script also utilizes this user ID</p> <p>Note: The installation utility will prompt to enter "Y" to encrypt. Enter Y/y when there is a not a WebLogic user previously created, and specify value of "system". This is a security value.</p>	
WebLogic Admin System Password	WLS_WEB_WLSYSPASS	<p>The password to login to Oracle WebLogic console and to administer Oracle WebLogic. The Oracle WebLogic startup and stop script also utilize this password.</p> <p>Note: The installation utility will prompt to enter "Y" to encrypt. Enter Y/y when there is a not a WebLogic user previously created, and specify value of "ouafadmin". This is a security value.</p>	
WebLogic Server Name	WEB_WLS_SVRNAME	<p>The name of the WebLogic server where the web application resides.</p> <p>Default value: myserver Note: If there is not a previously created WebLogic server, take default value of "myserver".</p>	
Web Server Application Name	WEB_APP	<p>The name of the web application server.</p> <p>Default value: SPLWeb</p> <p>Note: For an initial installation, use the default value of "SPLWeb".</p>	
Application Admin User ID	WEB_SPLUSER	<p>This is the default user ID to login to the application through the browser.</p> <p>Example value: SYSUSER</p> <p>Note: The required value for an initial installation is "SYSUSER". This value is also used in communication within the XAI application. This is a security value.</p>	

Table 5: Installation Menu 3, WebLogic Web Application Server Configuration

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Application Admin Userid Password	WEB_SPLPASS	<p>This is the password of the application admin user.</p> <p>Example value: sysuser00</p> <p>Note: The required value for an initial installation is “sysuser00”. This value will be saved in encrypted format</p> <p>This is a Security Value.</p>	
Expanded Directories	WEB_ISEXPANDED	<p>When the value is “true” the web application will be deployed in exploded directory format (no WAR files).</p> <p>When the value is “false”, the web application will be deployed in ear file format.</p> <p>Valid values: true: Environment expanded (no WAR files) false: Environment with WAR/EAR files</p> <p>Default value: false</p>	
Application Viewer Module	WEB_ISAPVIEWER	<p>When the value is “true” the application viewer will be deployed to the web server. When the value is “false”, the application viewer will not be deployed to the web Server.</p> <p>Note: With either value the application viewer module will still be managed by the upgrade process.</p> <p>Note: When this value is set to false from the initial install menu you will not be able to change this value to true to re-enable the application viewer.</p> <p>Valid values: true: The application viewer module will be deployed to the web server false: The application viewer module will not be deployed to the web server</p> <p>Default value: true</p>	

Database Configuration

4. Database Configuration

Application Database User ID:
Application Database Password:
MPL Database User ID:
MPL Database Password:
XAI Database User ID:
XAI Database Password:
Batch Database User ID:
Batch Database Password:
Database Name
Database Server:
Database Port:
ONS Server Configuration:
Database Override Connection String:
Oracle Client Character Set NLS_LANG: AMERICAN_AMERICA.AL32UTF8

Table 6: Installation Menu 4, Database Configuration

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Application Database User ID	DBUSER	The database user ID that has been configured on the database for the web application server connection. This is a security value.	
Application Database Password	DBPASS	The database password that has been configured on the database for the web application connection. Note: This value will be saved in encrypted format. This is a security value.	
MPL Database User ID	MPL_DBUSER	The database user ID that has been configured on the database for the MPL server connection. This is a security value.	
MPL Database Password	MPL_DBPASS	The database password that has been configured on the database for the MPL server connection. Note: This value will be saved in encrypted format. This is a security value.	
XAI Database User ID	XAI_DBUSER	The database user ID that has been configured on the database for the XAI server connection. This is a security value.	

Table 6: Installation Menu 4, Database Configuration

Menu Option	Name Used in Documentation	Usage	Customer Install Value
XAI Database Password	XAI_DBPASS	The database password that has been configured on the database for the XAI server connection. Note: This value will be saved in encrypted format. This is a security value.	
Batch Database User ID	BATCH_DBUSER	The database user ID that has been configured on the database for the batch connection. This is a security value.	
Batch Database Password	BATCH_DBPASS	The database password that has been configured on the database for the batch connection. Note: This value will be saved in encrypted format. This is a security value.	
Database Name	DBNAME	The name of the database instance that the application will be connecting to.	
Database Server	DBSERVER	Host name of the server where database resides.	
Database Port	DBPORT	Database port number on the database server used for connecting to the database	
ONS Server Configuration	ONSCONFIG	ONS Server Configuration is required for Oracle RAC FCF. Refer to the Server Administration Guide for more information. This is an optional value.	
Database Override Connection String	DB_OVERRIDE_CONNECTION	This connection string can be used to override the database information entered above for RAC installation. Set this string to override the standard database connection string, as entered above. Refer to the Server Administration Guide for more information. This is an optional value.	
Oracle Client Character Set NLS_LANG	NLS_LANG	The Oracle Database Character Set. Select the Language and Territory that are in use in your country. Default value: AMERICAN_AMERICA.AL32UTF8	

General Configuration Options

Note: Refer to the *Oracle Utilities Operational Device Management Batch Server Administration Guide* for additional details on this configuration.

5. General Configuration Options

Batch RMI Port:
Batch Mode: CLUSTERED
Coherence Cluster Name:
Coherence Cluster Address:
Coherence Cluster Port:
Coherence Cluster Mode: dev

Table 7: Installation Menu 5, General Configuration Options

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Batch RMI Port	BATCH_RMI_PORT	Unique port used by the Batch RMI	
Batch Mode	BATCH_MODE	Valid values: CLUSTERED or DISTRIBUTED Default value: CLUSTERED Note: CLUSTERED is currently the only supported mode for production environments.	
Coherence Cluster Name	COHERENCE_CLUSTER_NAME	Unique name for the batch CLUSTER Note: Value is required when batch mode is CLUSTERED.	
Coherence Cluster Address	COHERENCE_CLUSTER_ADDRESS	Unique multicast address. Note: Value is required when batch mode is CLUSTERED.	
Coherence Cluster Port	COHERENCE_CLUSTER_PORT	Unique port for the batch CLUSTER Note: Value is required when batch mode is CLUSTERED.	
Coherence Cluster Mode	COHERENCE_CLUSTER_MODE	Valid values: dev (Development) prod (Production) Default value: prod	

Advanced Menu Options

The advanced menu options are not available during installation. These options can be accessed after installation using the following commands:

Unix:

```
<Install_dir>/bin/configureEnv.sh -a
```

Windows

```
<Install_dir>\bin\configureEnv.cmd -a
```

Advanced Environment Miscellaneous Configuration

```
50. Advanced Environment Miscellaneous Configuration
    Online JVM Batch Server Enabled:                false
    Online JVM Batch Number of Threads:              5
    Online JVM Batch Scheduler Daemon Enabled:        false
    JMX Enablement System User ID:
    JMX Enablement System Password:
    RMI Port number for JMX Business:
    RMI Port number for JMX Web:
    GIS Service Running on the same Web Server:      true
    GIS Service URL:
    GIS WebLogic System User ID:
    GIS WebLogic System Password:
    Online Display Software Home:
```

Table 8: Installation Menu 50, Advanced Environment Miscellaneous Configuration

Menu Option	Name Used in Documentation	Usage	Customer Value Install
WebSphere Deployment Manager Host Name	WASND_DMGR_HOST	WebSphere Deployment Manager Host name, this value is used for WebSphere ND, when connecting to the WebSphere Deployment Manager.	
Online JVM Batch Server Enabled	BATCHENABLED	When starting a web application server JVM, this property can be set to “true” to allow the on-line application server to also act as a batch worker in the grid. Default value: false Note: This functionality should only be used in low volume environments.	
Online JVM Batch Number of Threads	BATCHTHREADS	The maximum number of batch processing threads to be executed within a worker JVM when no explicit Distributed Thread Pool is specified. The “DEFAULT” distributed thread pool is used by the batch-scheduling daemon when it initiates processing on batch jobs (typically added via the online system) where no thread pool is specified). Default value: 5 Note: This will be only used and activated when BATCHENABLED is set to true.	

Table 8: Installation Menu 50, Advanced Environment Miscellaneous Configuration

Menu Option	Name Used in Documentation	Usage	Customer Value Install
Online JVM Batch Scheduler Daemon Enabled	BATCHDAEMON	<p>In a distributed batch environment, this property can be set to “true” to allow a worker JVM to host the batch scheduling daemon. The daemon accepts online batch submissions requests and automatically submits the work for them.</p> <p>Valid values: true, false</p> <p>Default value: false</p> <p>Note: This will be only used and activated when BATCHENABLED is set to true.</p>	
JMX Enablement System User ID	BSN_JMX_SYSUSER	<p>Example value: user</p> <p>This value is optional.</p>	
JMX Enablement System Password	BSN_JMX_SYSPASS	<p>Example value: admin</p> <p>Note: This value will be saved in encrypted format.</p> <p>This value is optional.</p>	
RMI Port number for JMX Business	BSN_JMX_RMI_PORT_PERFORMANCE	<p>JMX Port for business application server monitoring.</p> <p>This needs to be set to an available port number on the machine.</p> <p>This value is optional.</p>	
RMI Port number for JMX Web	WEB_JMX_RMI_PORT_PERFORMANCE	<p>JMX Port for web application server monitoring</p> <p>This needs to be an available port number for the environment running on the machine.</p> <p>This value is optional.</p>	
GIS Service Running on the same Web Server	GIS	<p>Geographical information (GEOCODING) - GIS Service running on the same web application server</p> <p>Valid values: true, false</p> <p>This value is optional.</p>	
GIS Service URL	GIS_URL	<p>This is the URL of the external web server.</p> <p>Note: This value will be only be used when GIS is set to true.</p> <p>This value is optional.</p>	

Table 8: Installation Menu 50, Advanced Environment Miscellaneous Configuration

Menu Option	Name Used in Documentation	Usage	Customer Value Install
GIS WebLogic System User ID	GIS_WLSYSUSER	GIS WebLogic System User ID Note: This value will be only be used when GIS is set to true. This value is optional.	
GIS WebLogic System Password	GIS_WLSYSPASS	GIS WebLogic System Password. Note: This value will be only be used when GIS is set to true. This value is optional.	
Online Display Software Home	ONLINE_DISPLAY_HOME	The location of the Online Display Software installation directory. This value is optional.	

Advanced Environment Memory Configuration

51. Advanced Environment Memory Configuration	
JVM Child Memory Allocation:	512
JVM Child Additional Options:	
Web Application Java Initial Heap Size:	1024
Web Application Java Max Heap Size:	1024
Web Application Java Max Perm Size:	500
Web Application Additional Options:	
Ant Min Heap Size:	200
Ant Max Heap Size:	800
Ant Additional Options:	
Thread Pool Worker Java Min Heap Size:	512
Thread Pool Worker Java Max Heap Size:	1024
Thread Pool Worker Java Max Perm Size:	768
Thread Pool Worker Additional Options:	
Additional Runtime Classpath:	

Table 9: Installation Menu 51, Advanced Environment IMemory Configuration

Menu Option	Name Used in Documentation	Usage	Customer Install Value
JVM Child Memory Allocation	JVMMEMORYARG	Heap size for the JVM Child. Default value: 512 This option is not applicable to ODM.	
JVM Child Additional Options	JVM_ADDITIONAL_OPTION	Additional JVM options that are passed to the Child JVM. Note: For WebLogic installation only. This option is not applicable to ODM.	
Web Application Java Initial Heap Size	WEB_MEMORY_OPTION_MIN	Initial heap size for the application server. Default value: 1024 Note: For WebLogic installation only.	
Web Application Java Max Heap Size	WEB_MEMORY_OPTION_MAX	Maximum heap size for the application server. Default value: 1024 Note: For WebLogic installation only. Recommended value is 2048.	
Web Application Java Max Perm Size	WEB_MEMORY_OPTION_MAXPERMSIZE	Maximum Perm Size for the application server. Default value: 700MB (Linux, Solaris) Note: For WebLogic installation only.	

Table 9: Installation Menu 51, Advanced Environment IMemory Configuration

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Web Application Additional Options	WEB_ADDITIONAL_OPT	<p>Additional options that will be passed in to the web application server JVM.</p> <p>Note: For WebLogic installation only.</p> <p>Replace the value of SPLEBASE with the actual value.</p> <p>UNIX: -Xrs -XX:+ShowMessageBoxOnError - XX:+UseGCOverheadLimit - Doracle.security.jps.config=SPLBASE/ splapp/config/jps-config.xml - Ddomain.home=SPLBASE/splapp</p> <p>Windows: -Xrs -XX:+ShowMessageBoxOnError - XX:+UseGCOverheadLimit - Doracle.security.jps.config=SPLBASE/ splapp/config/jps-config.xml - Ddomain.home=SPLBASE/splapp</p> <p>AIX: -Xrs -XX:+ShowMessageBoxOnError - XX:+UseGCOverheadLimit - Doracle.security.jps.config=SPLBASE/ splapp/config/jps-config.xml - Ddomain.home=SPLBASE/splapp - Djava.awt.headless=true</p>	
Ant Min Heap Size	ANT_OPT_MIN	<p>Minimum Heap Size passed to ANT JVM.</p> <p>Default value: 200</p>	
Ant Max Heap Size	ANT_OPT_MAX	<p>Maximum Heap Size passed to ANT JVM.</p> <p>Default value: 800</p>	
Ant Additional Options	ANT_ADDITIONAL_OPT	Additional options that are passed into the ANT JVM.	
Thread Pool Worker Java Min Heap Size	BATCH_MEMORY_OPT_MIN	<p>Minimum heap size passed to the Thread Pool Worker.</p> <p>Default value: 512 Recommended value is 1024.</p>	
Thread Pool Worker Java Max Heap Size	BATCH_MEMORY_OPT_MAX	<p>Maximum heap size passed to the Thread Pool Worker.</p> <p>Default value: 1024 Recommended value is 2048.</p>	
Thread Pool Worker Java Max Perm Size	BATCH_MEMORY_OPT_MAXPERMSIZE	<p>Maximum perm size passed to the Thread Pool Worker</p> <p>Default value: 768</p>	

Table 9: Installation Menu 51, Advanced Environment IMemory Configuration

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Thread Pool Worker Additional Options	BATCH_MEMORY_ADDITIONAL_OPT	Additional Memory Options passed into the Thread Pool Worker. This is an optional free form field.	
Additional Runtime Classpath	ADDITIONAL_RUNTIME_CLASSPATH	<p>Additional Classpath Options passed in when starting the WebLogic JVM Note: For WebLogic installation only. This is an optional value.</p> <p>Replace the value of SPLEBASE with the actual value.</p> <p>Unix: SPLEBASE/splapp/standalone/lib/commons-cli-1.1.jar;SPLEBASE/splapp/standalone/lib/log4j-1.2.15.jar</p> <p>Windows: SPLEBASE/splapp/standalone/lib/commons-cli-1.1.jar;SPLEBASE/splapp/standalone/lib/log4j-1.2.15.jar</p>	
Release Cobol Thread Memory Options	REL_CBL_THREAD_MEMORY	<p>Allow for child JVMs to be optionally configured to release thread-bound memory when each thread is returned to its thread pool. This will increase the number of memory allocations and memory free calls performed by the Microfocus runtime. It will also lower the amount of C-heap memory consumed by child JVMs.</p> <p>Valid values: true, false</p> <p>Default value: false</p>	

Advanced Web Application Configuration

52. Advanced Web Application Configuration

```

WebLogic SSL Port Number:
WebLogic Console Port Number:
WebLogic Additional Stop Arguments:
Strip HTML Comments: false
Authentication Login Page Type: FORM
Web Form Login Page: /loginPage.jsp
Web Form Login Error Page: /formLoginError.jsp
Help Form Login Page: /loginPage.jsp
Help Form Login Error Page: /formLoginError.jsp
Web Security Role: cisusers
Web Principal Name: cisusers
Application Viewer Security Role: cisusers
Application Viewer Principal Name: cisusers
This is a development environment: false
Preload All Pages on Startup: false
Maximum Age of a Cache Entry for Text: 28800
Maximum Age of a Cache Entry for Images: 28800
JSP Recompile Interval (s): 43200

```

Table 10: Installation Menu 52, Advanced Web Application Configuration

Menu Option	Name Used in Documentation	Usage	Customer Install Value
WebLogic SSL Port Number	WEB_WLSSPORT	<p>The port number assigned to WebLogic Secure Sockets connection. This is the port number that is used for Secure Sockets connecting to the WebLogic server.</p> <p>The Secure Sockets implementation is disabled in the default configuration.</p> <p>For Production additional actions are required. Do NOT run Production with Demo certificates.</p> <p>Refer to the WLS installation guide - Configuring Identity and Trust When this value is populated http will be disabled.</p> <p>Example value: 6501</p> <p>Note: For WebLogic installation only. This value is optional.If you enable the SSL port, then the https port is enabled and http port is disabled by default.</p>	
WebLogic Console Port Number	WLS_ADMIN_PORT	<p>The port number assigned to WebLogic Console connection. This is the port number that is used for Secure Sockets connecting to the WebLogic Console server.</p> <p>Note: For WebLogic installation only.</p> <p>This value is optional.</p>	

Table 10: Installation Menu 52, Advanced Web Application Configuration

Menu Option	Name Used in Documentation	Usage	Customer Install Value
WebLogic Additional Stop Arguments	ADDITIONAL_STOP_WEBLOGIC	<p>WebLogic Additional Stop Arguments</p> <p>This value is required when running the WebLogic Console Port Number and the Application using SSL.</p> <p>Example values:</p> <p>-Dweblogic.security.TrustKeyStore=DemoTrust</p> <p>-Dweblogic.security.TrustKeystoreType=CustomTrust</p> <p>Note: For Production additional actions are required. Do NOT run Production with Demo certificates</p> <p>Refer to the WLS installation guide - Configuring Identity and Trust</p> <p>Note: For WebLogic installation only. This is an optional value.</p> <p>If you enable the WebLogic console port number using the Advanced Web Application Configuration menu, then you should specify the WebLogic additional stop argument.</p>	
StripHTMLComments: false	STRIP_HTML_COMMENTS	<p>Stripping HTML (and JavaScript) comments will increase the security of the system.</p> <p>Default value: false</p> <p>Valid values: true, false</p>	
Authentication Login Page Type	WEB_WLAUTHMETHOD	<p>Specifies which authentication mode should be used. To switch off OUA Login Page enter: BASIC</p> <p>Valid values: FORM, BASIC</p> <p>Default value: FORM</p>	
Web Form Login Page	WEB_FORM_LOGIN_PAGE	<p>Specify the jsp file used to login into the application.</p> <p>Default value: /loginPage.jsp</p>	
Web Form Login Error Page	WEB_FORM_LOGIN_ERROR_PAGE	<p>Specify the jsp file used when there is an error when logging into the application.</p> <p>Default value: /formLoginError.jsp</p>	
Web Security Role	WEB_PRINCIPAL_NAME	<p>Specify the name of the security role.</p> <p>Default value: cisusers</p>	

Table 10: Installation Menu 52, Advanced Web Application Configuration

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Web Principal Name	WEB_PRINCIPAL_NAME	Specify the name of a principal that is defined in the security realm. Default value: cisusers	
Application Viewer Security Role	WEB_APPVIEWER_ROLE_NAME	Specify the name of the security role. Default value: cisusers	
Application Viewer Principal Name	WEB_APPVIEWER_PRINCIPAL_NAME	Specify the name of a principal that is defined in the security realm. Default value: cisusers	
This is a development environment	WEB_ISDEVELOPMENT	If the value is “true”, the web application may be used for application development, which will trigger certain generation processes. If the value is “false” the environment will be used as a runtime environment. When you choose “true” (development environment) the startup preload pages will be disabled, and the application security will be less strict. This value also controls the amount of logging information written to the application log files. Valid values: true, false Default value: false	
Preload All Pages on Startup	WEB_PRELOADALL	This controls if the pages should be pre-loaded during the startup of the application or not. Valid values: true, false Default value: false	
Maximum Age of a Cache Entry for Text	WEB_MAXAGE	Default value: 28800	
Maximum Age of a Cache Entry for Images	WEB_MAXAGEI	Default value: 28800	
JSP Recompile Interval (s)	WEB_wlpageCheckSeconds	Default value: 43200	

OIM Configuration Settings

53. OIM Configuration Settings

SPML SOAP Trace Setting: false
SPML IDM Schema Name: F1-IDMUser
SPML OIM Name Space: http://xmlns.oracle.com/OIM/provisioning
SPML OIM Enclosing Element: SOAPElement

Table 11: Installation Menu 53, OIM Configuration Settings

Menu Option	Name Used in Documentation	Usage	Customer Install Value
SPML SOAP Trace Setting	OIM_SPML_SOAP_DEBUG_SETTING	Name of Oracle Identity Manager library for debug Default value: false Valid values: true, false	
SPML IDM Schema Name	OIM_SPML_IDM_SCHEMA_NAME	Name of Oracle Identity Manager library for schema Default value: F1-IDMUser	
SPML OIM Name Space	OIM_SPML_NAME_SPACE	Default Namespace for Oracle Identity Manager integration Default value: http://xmlns.oracle.com/OIM/provisioning	
SPML OIM Enclosing Element	OIM_SPML_SOAP_ELEMENT	Default top level SOAP Element name for Oracle Identity Manager integration Default value: SOAPElement	

Appendix C

Application Framework Prerequisite Patches

Oracle Utilities Application Framework patches must be installed prior to installing Oracle Utilities Operational Device Management. The patches listed below are available as a convenience rollup, ODM-V2.0.1.0.0-FW-PREREQ-Multiplatform.zip, which is included in the downloaded Media Pack. Please refer to the instructions contained inside the rollup directory for steps to install the patches.

14524888	14544452	14579412	14621732
14527006	14559104	14581708	14626695
14539076	14565634	14592799	14631396
14544366	14565651	14609627	14676277

Appendix D

Common Maintenance Activities

This appendix lists frequently-used commands that you use to perform common maintenance activities, such as starting and stopping the environment and thread pool worker, modifying the configuration items.

Run the following commands to perform these common tasks:

To Initialize the Environment

1. Go the directory <install_dir>/bin.
2. Run the following command:

UNIX:

```
./splenviron.sh -e <Env_Name>
```

Windows:

```
splenviron.cmd -e <Env_Name>
```

To Start the WebLogic Server

1. Initialize the environment.
2. Run the following command:

UNIX:

```
./spl.sh start
```

Windows:

```
spl.cmd start
```

To Stop the WebLogic Server

1. Initialize the environment.
2. Run the following command:

UNIX:

```
./spl.sh stop
```

Windows:

```
spl.cmd stop
```

To Start the Thread Pool Worker

1. Initialize the environment.

-
2. Run the following command:

UNIX:

```
./spl.sh -b start
```

Windows:

```
spl.cmd -b start
```

To Stop the Thread Pool Worker

1. Initialize the environment.
2. Run the following command:

UNIX:

```
./spl.sh -b stop
```

Windows:

```
spl.cmd -b stop
```

To Modify the Configuration Values

1. Initialize the environment.
2. Run the following command:

UNIX:

```
configureEnv.sh
```

Windows:

```
configureEnv.cmd
```

The configuration utility launches menu items. Select any Menu option.

3. Change the menu values.
4. After you change the menu values, press P to write the changes to the configuration file.
5. To apply the changes to the environment, run the initial setup script:

```
initialSetup.sh,
```

To Modify the Advanced Menu Option Values

1. Initialize the environment.

The configuration utility launches menu items.

2. Run the following command:

UNIX:

```
configureEnv.sh -a
```

Windows:

```
configureEnv.cmd -a
```

3. Select any menu option.
4. Change the menu values.
5. To apply the changes to the environment, run initial setup script:

```
initialSetup.sh
```


Appendix E

Installing User Documentation as a Standalone Application

Installing User Documentation

This section provides instructions for installing the Oracle Utilities Operational Device Management user documentation that is supplied with the system. The user documentation is provided in PDF format for printing.

The documentation is also provided in HTML format located inside the Oracle Utilities Operational Device Management application server installation package. It is automatically installed and can be launched from the user interface. The files are under the applications directory packaged in the file named help.war. User documentation is provided in English (ENG). The documentation material is divided into the following subdirectories underneath the language directory:

- W1: Oracle Utilities Operational Device Management User Guide
- F1: Oracle Utilities Application Framework Administration and Business Process Guides

Installing Stand-Alone Online Help

You can also use the Oracle Utilities Operational Device Management online help in stand-alone mode (that is, you do not have to launch it from the Oracle Utilities Operational Device Management application or access it on the application server).

To install the Oracle Utilities Operational Device Management help for stand-alone operation, copy the help.war from the Oracle Utilities Operational Device Management server (environment) or from the installation package to the server or machine on which you want to access the help. If you want to copy the file from any installed Oracle Utilities Operational Device Management environment, you can locate the file in the <Install_dir>/splapp/applications directory on the server.

Unzip the help.war file to any directory on your machine. To launch the Oracle Utilities Operational Device Management help in stand-alone mode, open the SPLHelp.html file (located inside the language directory that you wish to use).

Note: Do not change the subdirectory names. The documents use relative path names to link to other documents. Changing the subdirectory names will result in broken links.

Customizing Help for Stand-Alone Operation

You can customize the SPLHelp.html file to open to the file and topic that you most frequently use. To do so, edit the SPLHelp.html file and change the DEFAULT_BOOKMARK to the desired location. The default DEFAULT_BOOKMARK is 'helpHome.html'.

Installing Stand-Alone Help Under Web Server

You can also install Oracle Utilities Operational Device Management online help as a stand-alone web application. You can use any web application server, such as WebLogic. Configure the configuration file for your web application server to use web application help.

For example,

"For WebLogic, configure config.xml file for deployed application Name="help" with

URI="help.war" and set WebServer DefaultWebApp="help" Access the documentation from the browser by the following URL : `http://<host name>:<port name>/<WebContext>/<Lang>/SPLHelp.html`

where <hostname>:<portname> is the URL of the web server, <Web Context> is the root web context name specified during web application server configuration, <Lang> is the name of the language directory, for example, ENG.

Note: Standalone online help files are not automatically updated when changes are made to the help files on the application server. You must re-install the stand-alone online help files.

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