Oracle Utilities Digital Asset Management

Installation Guide Release 25.10 **G39833-01**

October 2025



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Preface

Welcome to the Oracle Utilities Digital Asset Management Installation Guide. This guide provides information about installing Oracle Utilities Digital Asset Management V25.10 and is intended for anyone interested in the installation process.

- Audience
- Related Documents
- Updates to Documentation
- Conventions
- Acronyms
- Additional Resources

Audience

This guide is intended for anyone interested in the installation process.

To complete the installation you should have:

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

Related Documents

For more information, refer to these Oracle documents:

Installation Guides and Release Notes

- Oracle Utilities Digital Asset Management Release Notes
- Oracle Utilities Digital Asset Management Quick Install Guide
- Oracle Utilities Digital Asset Management Installation Guide
- Oracle Utilities Digital Asset Management Database Administrator's Guide
- Oracle Utilities Digital Asset Management Licensing Information User Manual

User Guide

- Security Guide
- Server Administration Guide

Updates to Documentation

The complete Oracle Utilities Digital Asset Management documentation set is available from Oracle Help Center at https://docs.oracle.com/en/industries/energy-water/index.html.

Visit My Oracle Support for additional and updated information about the product.

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.
italic	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 and terms are used in this document:

Term	Description
C2M	Oracle Utilities Customer to Meter
OUAF	Oracle Utilities Application Framework
MDM	Oracle Utilities Meter Data Management
DAM	Oracle Utilities Digital Asset Management

Additional Resources

Additional and updated information about the product is available on My Oracle Support. For more information and support, visit the Oracle Support website.

Overview

This chapter provides a high-level overview of the Oracle Utilities Digital Asset Management installation.

To install Oracle Utilities Digital Asset Management:

- Review the different tiers of the application architecture as described in Application Architecture Overview.
- 2. Understand the hardware requirements for installing the application and the supported platforms for the application and database servers as described in Supported Platforms and Hardware Requirements.

Note: The installation and administration of the database server tier is described in detail in the *Oracle Utilities Digital Asset Management Database Administrator's Guide* included in this release.

- 3. Install the database as described in the *Oracle Utilities Digital Asset Management Database Administrator's Guide* included in this release.
- 4. Plan your installation as described in Planning the Installation.
- 5. Install all required third-party software as described in Installing Application Server Prerequisite Software. The required software is listed for each supported combination of operating system and application server.
- 6. Install the framework for the application as described in Installing Oracle Utilities Digital Asset Management.
- 7. Install Oracle Utilities Digital Asset Management as described in Installing the Application Server Component of Oracle Utilities Application Framework.
- 8. Follow the post-installation guidelines described in Additional Tasks.

Application Architecture Overview

This chapter provides an overview of the Oracle Utilities Application Framework application architecture.

The Oracle Utilities Application Framework application is deployed on multiple tiers.

Refer to the *Server Administration Guide* included in this release for a more detailed description of the application architecture and individual tiers.

Tier 1: Desktop/Client, or Presentation Tier

This tier is implemented in a browser-based client. Users use a desktop client web browser to log in to and use the Oracle Utilities Digital Asset Management application. Note also that a desktop machine running Microsoft Windows and the Oracle client is required to perform some of the Oracle Utilities Digital Asset Management product installation steps.

Tier 2: Web Application/Business Application Server, or Business Logic Tier

This tier is implemented in a web application server, business application server, or the batch server. The business application component can be installed as part of the web application server, or as a separate component. Except where explicitly noted, most of the Oracle Utilities Application Framework installation documentation assumes that the web application and business application servers reside together. The batch infrastructure will also run within this tier. You can have multiple batch server instances that serve the application.

Tier 3: Database or Persistence Tier

This tier is implemented in a database server. The database server stores data maintained by the Oracle Utilities Digital Asset Management application. More specifically, the database tier contains the data server files and database executables that physically store the tables, indexes, and other database objects for your system.

Supported Platforms and Hardware Requirements

This chapter provides an overview of the tiers on which the product is implemented and shows each of the operating system/server combinations that the product is supported on. It includes:

- Software and Hardware Considerations
- Requirements by Tier
- Supported Platforms
- Operating Systems and Application Servers
- Application Server Memory Requirements
- Support for Software Patches and Upgrades

Software and Hardware Considerations

Many factors can influence the software and hardware decisions. For example, your system may have to satisfy specific performance, availability, or scalability requirements, or to support running in a language other than English. These business requirements, together with the chosen system architecture, should be used in initial software and hardware planning.

Some of the questions that you should answer before beginning the installation include:

- On which hardware platform and operating system will Oracle Utilities Digital Asset Management be deployed?
- Which web server product will Oracle Utilities Digital Asset Management deploy on?
- Which database product will Oracle Utilities Digital Asset Management deploy on?
- Do you plan to deploy multiple Oracle Utilities Digital Asset Management instances on the same physical server?
- How do you plan to deploy Oracle Utilities Digital Asset Management?
 - Web/application/database on the same physical server?
 - Web/application on one server and database on separate server?
 - Each component on its own server?

For detailed descriptions of various deployment architecture choices that may aid in planning, please see the document *Oracle Utilities Application Framework Architecture Guidelines*, available on My Oracle Support (Article ID 807068.1).

The final hardware and software decisions must comply with the specific requirements of the Oracle Utilities Digital Asset Management product, as described in the rest of this chapter.

Requirements by Tier

The application is deployed on multiple Tiers:

- Tier 1, Desktop: Software, and Hardware Requirements
- Tier 2, Web/Business Application Server: Software and Hardware Requirements
- Tier 3, Database Server: Software and Hardware Requirements

Tier 1, Desktop: Software, and Hardware Requirements

Configuration	Processor	Memory (RAM)	Storage	Monitor Display
Minimum	2 gigahertz (GHz) or?faster with 2 or more cores *	8 GB **	128 GB or higher ***	Refer to the Redwood Large resolution (currently 1024px).
Recommended	3 gigahertz (GHz) or?faster with 2 or more cores *	16 GB **	250 GB or higher ***	

^{*} or comparable processor

Note that the hardware requirements above are based on running the application only, and without any additional software running concurrently. If your client setup requires other software running, please adjust the requirements to account for them.

The web browsers listed below are supported when used on each of the operating systems indicated:

Browser	Windows Operating System
Microsoft Edge for Business 81+ (Edge Chromium)	
Mozilla Firefox ESR 128	Microsoft Windows 11 Version x 64-bit
Google Chrome Enterprise 81+	_
Apple Mobile Safari	Apple iPad iOS 18.x

Tier 2, Web/Business Application Server: Software and Hardware Requirements

Refer to Supported Platforms to determine which web application servers can be used with the operating system that will be hosting this tier.

The recommendations that follow are based on a standard installation with both the web application and business application servers on the same machine and the system running with the default values. The default values may not support a production environment. You should adjust these values according to your production needs. Refer to the *Server Administration Guide* on how to change the default values. The minimum resource requirements exclude third-party software installation requirements. Refer to the third-party vendors for specific requirements. The following sizing excludes the Oracle database server installation.

^{**} more RAM may be needed for more graphic intensive application features, such as Oracle Utilities Work and Asset Management's GIS Viewer or CM Portals that contain numerous graphs.

^{***} to support browser caching

Tier 3, Database Server: Software and Hardware Requirements

Refer to Supported Platforms for information about the supported database servers.

Supported Platforms

The installation has been tested to operate on many operating system, application server, and database server combinations. For the software requirements for each of these combinations, refer to Installing Application Server Prerequisite Software.

Operating Systems and Application Servers

This section details the operating system and application server combinations on which this version of Oracle Utilities Digital Asset Management is supported.

Application Server Operating Systems

- Oracle Linux 8.x or 9.x (64-bit) for x86_64
- Windows 11 Version x and Windows Server 2022 (for OUAF SDK use only)

Prerequisite Application Server Software

- Oracle Database Client 19c
- Oracle Java SE Development Kit 17.0.x (Windows and Linux platforms only)

Notes:

Oracle Linux is 100% user space-compatible with Red Hat Enterprise Linux, therefore, Oracle Utilities Application Framework is also supported on Red Hat Enterprise Linux.

Refer to the *Oracle Utilities Application Framework Database Administrator's Guide* for information on Oracle database server requirements.

Refer to the Certification Matrix for Oracle Utilities Products (Document ID 1454143.1) on My Oracle Support to determine if support for newer versions of the listed products have been added.

Please note the following:

- Version numbers marked with a "+" are the MINIMUM version supported.
 That version and all future 4th digit updates will be supported.
 - **Example**: Oracle 19c means that 19 and any higher versions of Oracle 19 are supported.
- An "x" indicates that any version of the digit designed by the "x" is supported.

Example: Linux 8.x indicates that any version of Linux 8 (8.0, 8.1, 8.2 etc) will be supported.

Windows Server

 Windows Server is **not** supported for Production environments. Wherever Windows Server is referenced within this guide, it is supported for Test or Development environments **only**.

WebLogic Server

- Oracle WebLogic Server (Fusion Middleware Infrastructure) 14.1.2
- Customers must download Oracle WebLogic Server from the Oracle Software Delivery Cloud.

Oracle Database Server

Prerequisite database server software (on any vendor supported platform where x is vendor supported version):

• Oracle 19c (64-bit) on-premises and cloud (ADB)

Oracle VM Support

This version of Oracle Utilities Digital Asset Management is supported on Oracle VM Server for x86 for supported releases of Oracle Linux and Microsoft Windows operating systems.

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

SDK - Supported Combinations

Refer to the SDK documentation for supported platforms and installation instructions.

Application Server Memory Requirements

For each application server environment a minimum of 6 GB of real memory is required, plus 6 GB of swap space. The approximate disk space requirements in a standard installation are as follows (the size represents the MINIMUM required):

Location	Size	Usage
Install Dir ("\$SPLEBASE") Location	10 GB recommended 5 GB minimum	Location 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. Note: This does not include the size of the edge product.
Log Dir ("\$SPLOUTPUT") Location	10 GB recommended 2 GB minimum	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	Size	Usage
Location of the application web work files on the web servers	5 GB recommended 2 GB minimum	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	10 GB minimum	The application gets installed from this location. You need enough space to uncompress the files and install the application.
Oracle Data Area	10 GB minimum	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.

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 Digital Asset 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 Digital Asset Management production environment.

Always contact Oracle Utilities Digital Asset Management Support prior to applying vendor updates that do not guarantee backward compatibility.

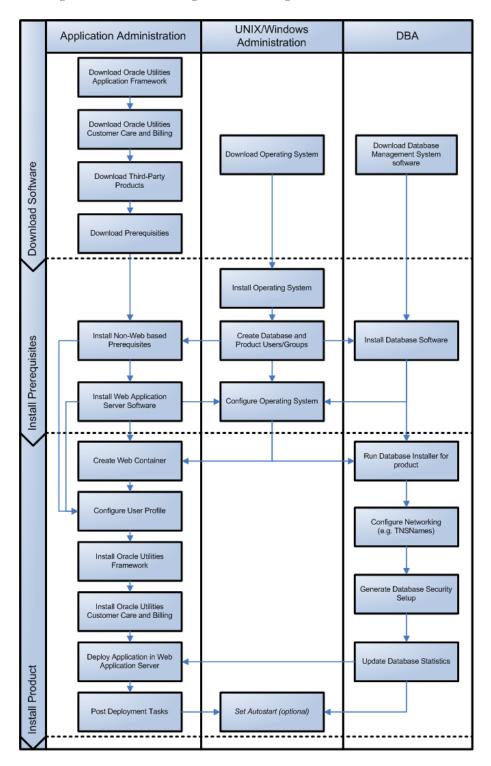
Planning the Installation

This chapter provides information for planning an Oracle Utilities Digital Asset Management installation, including:

- Installation and Configuration Overview
- Before You Install
- Installation Checklist
- Installation Menu Functionality Overview
- Installation and Configuration Worksheets

Installation and Configuration Overview

The following diagram provides an overview of the steps that need to be taken to install and configure Oracle Utilities Digital Asset Management:



Before You Install

Please contact My Oracle Support for up-to-date additional information about the Oracle Utilities Digital Asset Management installation.

WebLogic Native Installation

With Oracle Utilities Application Framework 25.10, a WebLogic native installation is required. See the *Oracle WebLogic Configuration Guide for Oracle Utilities Framework* document on My Oracle Support for more information.

Application Server Clustering

If you are considering application server clustering, refer to the *Oracle WebLogic Configuration Guide for Oracle Utilities Framework* document on My Oracle Support.

For additional information about WebLogic clustering, refer to the Fusion Middleware Using Clusters for Oracle WebLogic Server documentation.

Directory Names

Directory cannot contain whitespace characters.

Installation Checklist

The following checklist will help guide you through the installation process of the application tier. The details for each step are presented in subsequent chapters.

- 1. Install the database as described in the *Oracle Utilities Digital Asset Management Database Administrator's Guide* included in this release.
- 2. Create Group/User ID.
- 3. Install the prerequisite software (for complete details about installing and configuring the prerequisite third-party software for your specific platform, refer to Installing Application Server Prerequisite Software):
 - Oracle client 19c
 - Java 17
- 4. Install optional software.
- 5. Install the Oracle WebLogic 14.1.2.x web server.

Note: If you are upgrading and you are currently running Oracle Application Server please contact your Global Support Representative.

- 6. Verify that the software installed.
- 7. Set up the environment variables.
- 8. Install Oracle Utilities Application Framework.
- 9. Install Oracle Utilities Application Framework prerequisite single fixes (if there are any).

- 10. Install Oracle Utilities Customer Care and Billing.
- 11. Install Oracle Utilities Customer Care and Billing prerequisite single fixes (if there are any).
- 12. Install Oracle Utilities Meter Data Management.
- 13. Install Oracle Utilities Meter Data Management prerequisite single fixes (if there are any).
- 14. Install Oracle Utilities Operational Device Management.
- 15. Install Oracle Utilities Operational Device Management prerequisite single fixes (if there are any).
- 16. Install Oracle Utilities Digital Asset Management.
- 17. Install Oracle Utilities Digital Asset Management prerequisite single fixes (if there are any).
- 18. Deploy the Oracle Utilities Digital Asset Management application.
- 19. Complete the post-installation tasks.
- 20. Complete the optional third-party product integration (such as web self service or reporting tools).

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 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. The menu includes 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.

Please also note the following:

- 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 press '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. Refer to the *Oracle Utilities Application Framework Server Administration Guide* for details about configuring these values.

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

The following prompt appears 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

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

When these passwords are entered in the command line, the input values are not reflected on the screen when performing the installation.

Installation and Configuration Worksheets

During the installation and configuration of the application you will need to provide a variety of system values. These worksheets will assist you in providing that information. They should be completed before installing the application framework, as described in the Installing the Application Server Component of Oracle Utilities Application Framework.

Note: Some web application server information will not be available until the software installation steps have been completed as described in the Installing Application Server Prerequisite Software.

Refer to the *Server Administration Guide* for additional details (default, valid values, usage, etc.), as applicable.

Menu Block 1: Environment ID, Roles, Third Party Software Configuration

The Environment ID, Roles, Third Party Software Configuration options include:

Menu Option	Name Used in Documentation	Customer Install Value
Environment ID	ENVIRONMENT_ID	
Server Roles	SERVER_ROLES	
Oracle Client Home Directory	ORACLE_CLIENT_HOME	
Web Java Home Directory	JAVA_HOME	
**ONS JAR Directory	ONS_JAR_DIR	
Web Application Server Home Directory	WEB_SERVER_HOME	
***Additional JAR Directory	WLTHINT3CLIENT_JAR_DIR	

^{*} Denotes optional menu items that may be required for the product installation and variables.

\$ORACLE HOME/opmn/lib/ons.jar

During the installation the relevant option should be populated with the folder location of the ons.jar.

Menu Block 2: Keystore Options

The keystore is a set of files used for encryption, decryption and hash generation. The files reside in the following location:

- <SPLEBASE>/ks/.ouaf_keystore
- <SPLEBASE>/ks/.ouaf_storepass

To run the application correctly, data encryption, decryption and hash generation of data in the database and on the application server must be performed using the same keystore; otherwise, the application will fail.

Starting Oracle Utilities Application Framework v4.4.0.0.0 the keystore and truststore options have been removed from the Menu and defaulted into the following template user exit that is loaded by all the properties files:

templates/FW_spl.properties.keystore.truststore.include

The user can still customize those options using the "Centralized Properties Customization".

Upgrades from Oracle Utilities Application Framework versions below 4.4.0.0.0 will still use the keystore and truststore options recorded in the existing etc/ENVIRON.INI file (Menu options file).

Note: Populate the "Import Keystore Directory" option to import an existing keystore.

^{**} To activate the RAC FCF, the application needs the external ons.jar file, from the ORACLE_HOME path:

* *			
Keystore	ontions	include:	
IXCVSIOIC	Opuons	micrac.	

Menu Option	Name Used in Documentation	Customer Install Value
Import Keystore Directory	KS_IMPORT_KEYSTORE_FOLDER	

Menu Block 50: Environment Installation Options

Environment installation options include:

Menu Option	Name Used in Documentation	Customer Install Value
Environment Mount Point	SPLDIR	
Log File Mount Point	SPLDIROUT	
Environment Name	SPLENVIRON	
Install Application Javadocs	WEB_ISJAVADOCS	
Install Sample CM Source Code	CM_INSTALL_SAMPLE	

Menu Block 1: Environment Description

The environment description menu option includes:

Menu Option	Name Used in Documentation	Customer Install Value
Environment Description	DESC	

Menu Block 2: [WebLogic] Business Application Server Configuration

WebLogic Business Application Server configuration options include:

Menu Option	Name Used in Documentation	Customer Install Value
Business Server Host	BSN_WLHOST	
Business Server Application Name	BSN_APP	

Menu Block 3: [WebLogic] Web Application Server Configuration

Refer to Server Administration Guide for additional details (default, valid values, usage, etc.)

WebLogic Web Application Server configuration options include:

Menu Option	Name Used in Documentation	Customer Install Value
Web Server Host	WEB_WLHOST	
Weblogic SSL Port Number	WEB_WLSSLPORT	
Weblogic Console Port Number	WLS_ADMIN_PORT	
Web Context Root	WEB_CONTEXT_ROOT	
WebLogic JNDI User ID	WEB_WLSYSUSER	
WebLogic JNDI Password	WEB_WLSYSPASS	
WebLogic Server Name	WEB_WLS_SVRNAME	
Web Server Application Name	WEB_APP	
This Is A Production Env. And The Client Is Live	WEB_ISLIVEPRODUCTION	
Deploy Javadocs Module	WEB_DEPLOY_JAVADOCS	
Enable The Unsecured Health Check Service	WEB_ENABLE_HEALTHCHECK	
MDB RunAs User ID	WEB_IWS_MDB_RUNAS_USER	
Super User Ids	WEB_IWS_SUPER_USERS	

Menu Block 4 - Database Configuration

The parameters below and in the worksheet are for the database configuration. Note that if changes are made to any of the database menu option items below, thus potentially connecting to a different schema, a warning will be displayed in the screen next to the actual option that has been changed.

Name Used in Documentation	Customer Install Value
DBUSER	
DBPASS	
BATCH_DBUSER	
BATCH_DBPASS	
JDBC_NAME	
DBNAME	
DBSERVER	
DBPORT	
ONSCONFIG	
	DBUSER DBPASS BATCH_DBUSER BATCH_DBPASS JDBC_NAME DBNAME DBSERVER DBPORT

Menu Option	Name Used in Documentation	Customer Install Value
Database Override Connection String	DB_OVERRIDE_CONNECTI ON	
Character Based Database	CHAR_BASED_DB	
Oracle Client Character Set NLS_LANG	NLS_LANG	

Menu Block 5 - General Configuration Options

The general configuration options include:

Menu Option	Name Used in Documentation	Customer Install Value
Batch RMI Port	BATCH_RMI_PORT	
RMI Port number for JMX Business	BSN_JMX_RMI_PORT_PERFORMANCE	
RMI Port number for JMX Web	WEB_JMX_RMI_PORT_PERFORMANCE	
JMX Enablement System User ID	BSN_JMX_SYSUSER	
JMX Enablement System Password	BSN_JMX_SYSPASS	
Coherence Cluster Name	COHERENCE_CLUSTER_NAME	
Coherence Cluster Address	COHERENCE_CLUSTER_ADDRESS	
Coherence Cluster Port	COHERENCE_CLUSTER_PORT	
Coherence Cluster Mode	COHERENCE_CLUSTER_MODE	

Menu Block 6 - OUAF TrustStore Options

Refer to the Oracle Utilities Application Framework Server Administration Guide for additional details on this configuration.

Starting Oracle Utilities Application Framework V4.4.0.0.0, the keystore and truststore options have been removed from the Menu and defaulted into the following template user exit that is loaded by all the properties files:

templates/FW_spl.properties.keystore.truststore.include

You can still customize those options using the "Centralized Properties Customization" option. Upgrades from Oracle Utilities Application Framework versions below 4.4.0.0.0 will still use the keystore and truststore options recorded in the existing etc/ENVIRON.INI file (Menu options file).

The OUAF truststore configuration is required for IWS.

Menu Option	Name Used in Documentation	Customer Install Value
Import TrustStore Directory	TS_IMPORT_KEYSTORE_FOLDER	

Menu Block 8 - OSB Configuration

The OSB configuration includes:

Menu Option	Name Used in Documentation	Customer Install Value
OSB Home	OSB_HOME	
OSB Host Server	OSB_HOST	
OSB Port Number	OSB_PORT_NUMBER	
OSB SSL Port Number	OSB_SSL_PORT	
OSB Managed Server Port Number		
OSB Managed Server SSL Port Number	OSB_MANAGED_SSL_PORT	
JDBC URL for Database	DBURL_OSB	
OSB Service Table Schema Name	RCUSTBSCHEMA_OSB	
OSB Service Table Schema Password	RCUSTBSCHEMAPWD_OSB	
OSB WebLogic User Name	WEBLOGIC_USERNAME_OSB	
OSB WebLogic User Password	WEBLOGIC_PASSWORD_OSB	
Mount Point for OSB Files	OSB_LOG_DIR	/spl/ sploutput/osb

Menu Block 9 - SOA Configuration

The SOA configuration includes:

Menu Option	Name Used in Documentation	Customer Install Value
SOA Home	SOA_HOME	
SOA Host Server	SOA_HOST	
SOA Port Number	SOA_PORT_NUMBER	
SOA SSL Port Number	SOA_SSL_PORT_NUMBER	
SOA Internal URL	SOA_INTERNAL_URL	

Menu Option	Name Used in Documentation	Customer Install Value
SOA External URL	SOA_EXTERNAL_URL	
JDBC URL for SOA Database		
SOA Service Table Schema Name	RCUSTBSCHEMA_SOA	
SOA Service Table Schema Password	RCUSTBSCHEMAPWD_SOA	
SOA WebLogic User Name	WEBLOGIC_USERNAME_SOA	
SOA WebLogic User Password	WEBLOGIC_PASSWORD_SOA	
Specify the Path for XAI/IWS Service	WEB_SERVICE_PATH	XAIApp/ xaiservert

Menu Block 10 - SOA Configuration Plan (MDM)

The SOA configuration plan (MDF) includes:

Menu Option	Name Used in Documentation	Customer Install Value
MDM Bulk Request Callback URL		
MDM Headend HTTP Connection Timeout	50000	
MDM Headend HTTP Read Timeout	500000	
MDM SOA Request Queue JNDI Name	queue/BulkRequestQueue	
MDM SOA Notify Queue JNDI Name	queue/BulkNotifyQueue	
MDM SOA Command Queue JNDI Name	queue/BulkCommandQueue	
SGG-NMS TestHarness Partition Name	SGG-NMS_Test	

Menu Block 11 - Configuration for DataRaker Integration

The DataRaker Integration configuration includes:

Menu Option	Name Used in Documentation	Customer Install Value
JNDI Name of Destination Queue to publish SGG payloads for DataRaker Integration Tool	DataRakerQueue	
Number of records (SGG Payloads) to accumulate	100	
Max file size for the accumulated (SGG Payloads) file in Kilobytes	524288	
Specify a time which, when exceeded, causes a new outgoing file to be created in seconds	600	
Polling frequency of Staging directory for new files in seconds	60	
Mount point/directory for the accumulated SGG payload file	/spl/sploutput/staging	
Mount Point/directory for the converted XML file to place for DataRaker	/spl/sploutput/int	

Menu Block 16 - SOA Configuration Plan (LG)

The SOA configuration plan (LG) includes:

Menu Option	Name Used in Documentation	Customer Install Value
LG SOA Partition Name	LG	
LG SOA TestHarness Partition Name	LG_Test	
AMI Event Subscriber Output Path	/spl/sploutput/osb/lg-cim-event	
MR_Server endpoint URI		
CD_Server endpoint URI		
CIM_Server endpoint URI		
MeteringServer endpoint URI		

Menu Option	Name Used in Documentation	Customer Install Value
Security policy attached to outbound web service calls to a CIM interface	sgg/d3_cfs_cim_header_client_policy	
Security policy attached to inbound web service calls from a CIM interface	sgg/d3_cim_token_service_policy	
The name of the OWSM policy to use when SOA calls a head end system	oracle/ http_basic_auth_over_ssl_client_policy	
The name of the OWSM policy to use when SOA is called by a head end system	oracle/ http_basic_auth_over_ssl_service_policy	

Menu Block 17 - SOA Configuration Plan (NES)

The SOA configuration plan (NES) includes:

Menu Option	Name Used in Documentation	Customer Install Value
NES endpoint URI		
SOA partition to which the application is installed	Echelon	
Path to the NES EventManager web service on the head end system	CoreServices/EventManager.asmx	
Path to the NES GatewayManager web service	CoreServices/GatewayManager.asmx	
Path to the NES DeviceManager web service on the head end system	CoreServices/DeviceManager.asmx	
Path to the NES SettingManager web service on the head end system	CoreServices/SettingManager.asmx	
Path to the NES UserManager web service on the head end system	CoreServices/UserManager.asmx	
Name of the OWSM policy to use when SOA calls a head end system	oracle/ http_basic_auth_over_ssl_client_policy	
Name of the OWSM policy to use when SOA is called by a head end system	oracle/ http_basic_auth_over_ssl_service_policy	

Menu Block 18 - SOA Configuration Plan (Sensus)

The SOA configuration plan (Sensus) includes:

Menu Option	Name Used in Documentation	Customer Install Value
Sensus SOA TestHarness Partition Name	Sensus_Test	
Sensus SOA Partition Name	Sensus	
MR Server Endpoint URI		
CD Server Endpoint URI		
OD Server Endpoint URI		
Headend Http Read Timeout	500000	
Headend Http Connection Timeout	50000	
The name of the OWSM policy to use when SOA calls a head end system	oracle/ http_basic_auth_over_ssl_client_policy	
The name of the OWSM policy to use when SOA is called by a head end system	oracle/ http_basic_auth_over_ssl_service_policy	

Menu Block 19 - SOA Configuration Plan (SSN)

The SOA configuration plan (Sensus) includes:

Menu Option	Name Used in Documentation	Customer Install Value
SSN SOA Partition Name	SSN	
SOA Weblogic User Name		
SSN SOA Queue JNDI Name	queue/SSNODRQ	
SSN Headend DataAggregation Endpoint URI		
The URL for the SSN 4.7 DataAggregation service (DataAggregation.asmx)	http://127.0.0.1/CoreServices/ DataAggregation.asmx	
The URL for the SSN 4.10 DataAggregation service	https://ssn.ssnsgs.net:3000/amm/ webservice/v2_1/DataAggregat	
The URL for the SSN 4.14 DataAggregation service	https://ssn.ssnsgs.net:3000/amm/ webservice/v2_5_1/ DataAggregationPort	
URL for the SSN 5.1/2.7 DataAggregation service	https://ssn.ssnsgs.net:3000/amm/ webservice/v2_7/DataAggregationPort	

Menu Option	Name Used in Documentation	Customer Install Value
URL for the SSN 5.1/ 2.8DataAggregation service	https://ssn.ssnsgs.net:3000/amm/ webservice/v2_8/DataAggregationPort	
SSN Headend DeviceManager Endpoint URI		
URL for the SSN 4.7 DeviceManager service (DeviceManager.asmx)	http://127.0.0.1/CoreServices/ DeviceManager.asmx	
URL for the SSN 4.10 DeviceManager service	https://ssn.ssnsgs.net:3000/amm/ webservice/v2_1/DeviceManage	
URL for the SSN 5.1/2.7 DeviceManager service	https://ssn.ssnsgs.net:3000/amm/ webservice/v2_7/DeviceManagerPort	
URL for the SSN 5.1/2.8 DeviceManager service	https://ssn.ssnsgs.net:3000/amm/ webservice/v2_8/DeviceManagerPort	
SSN Headend DeviceResults Endpoint URI	http://127.0.0.1/CoreServices/ DeviceResults.asmx	
URL for the SSN 4.7 DeviceResults service (DeviceResults.asmx)	https://ssn.ssnsgs.net:3000/amm/ webservice/v2_1/DeviceResult	
The URL for the SSN 4.10 DeviceResults service	https://ssn.ssnsgs.net:3000/amm/ webservice/v2_7/DeviceResults	
The URL for the SSN 5.1/2.7 DeviceResults service	https://ssn.ssnsgs.net:3000/amm/ webservice/v2_7/DeviceResults	
The URL for the SSN 5.1/2.8 DeviceResults service	https://ssn.ssnsgs.net:3000/amm/ webservice/v2_8/DeviceResults	
SSN Headend JobManager Endpoint URI		
The URL for the SSN 4.7 JobManager service (JobManager.asmx)	http://127.0.0.1/CoreServices/ JobManager.asmx	
The URL for the SSN 4.10 JobManager service	https://ssn.ssnsgs.net:3000/amm/ webservice/v2_1/JobManagerPort	
The URL for the SSN 5.1/2.7 JobManager service	https://ssn.ssnsgs.net:3000/amm/ webservice/v2_7/JobManagerPort	
The URL for the SSN 5.1/2.8 JobManager service		
The name of the OWSM policy to use when SOA calls a head end system	oracle/ http_basic_auth_over_ssl_client_policy	
The name of the OWSM policy to use when SOA is called by a head end system	oracle/ http_basic_auth_over_ssl_service_policy	

Menu Block 20 - SSN JMS Source Destination Bridge Configuration

The SSN JMS Source Destination Bridge configuration includes:

Menu Option	Name Used in Documentation	Customer Install Value
SSN Bridge Destination Name	SSNTestHarnessBridgeDestination	
SSN Bridge Destination Additional Classpath		
SSN Bridge Destination Connection URL		
SSN Bridge Destination Initial Context Factory	weblogic.jndi.WLInitialContextFactory	
SSN Bridge Connection Factory JNDI Name	jms/SSNTestHarnessConnectionFactory	
SSN Bridge Destination Queue JNDI Name	queue/SSNTestSSNODRQ	
SSN Destination Bridge Username		

Menu Block 21 - DG Reference Implementation SOA Configuration

The DG Reference Implementation SOA configuration includes:

Menu Option	Name Used in Documentation	Customer Install Value
DG SOA Partition Name	DG	
MR Server Endpoint URI		
CD Server Endpoint URI		
OD Server Endpoint URI		
Headend Http Read Timeout	500000	
Headend Http Connection Timeout	50000	
DG SOA TestHarness Partition Name	DG_Test	

Menu Block 22 - SOA Configuration Plan (Itron Openway)

The SOA Configuration Plan (Itron Openway) configuration includes:

Menu Option	Name Used in Documentation	Customer Install Value
Itron SOA Partition Name	Itron	

Menu Option	Name Used in Documentation	Customer Install Value
Headend Http Read Timeout	500000	
Headend Http Connection Timeout	50000	
DataSubscriberService Output Path		
ExceptionSubscriberService Output Path		
Itron Headend DataService Endpoint URI		
Itron Headend DiagnosticService Endpoint URI		
Itron Headend UtilService Endpoint URI		
Itron Headend ControlService Endpoint URI		
Itron Headend ProvisioningService Endpoint URI		
Itron Headend ProvisioningService370 Endpoint URI		
Itron Headend ControlService370 Endpoint URI:		
Itron SOA TestHarness Partition Name	Itron_Test	
The name of the OWSM policy to use when SOA calls a head end system	oracle/ http_basic_auth_over_ssl_client_policy	
The name of the OWSM policy to use when SOA is called by a head end system	oracle/ http_basic_auth_over_ssl_service_policy	_

Advanced Menu Options

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

/UNIX:

\$SPLEBASE/bin/configureEnv.sh -a

Windows:

Menu Block 50 - Advanced Environment Miscellaneous Configuration

The advanced environment miscellaneous configurations include:

Menu Option	Name Used in Documentation	Customer Value Install
OUAF DBMS Scheduler User	OUAF_DBMS_SCHEDULER_USER	
WebLogic ThreadPoolWorker Enabled	WLS_THEADPOOLWORKERENABLED	
Online JVM Batch Server Enabled	BATCHENABLED	
Online JVM Batch Number of Threads	BATCHTHREADS	
Online JVM Batch Scheduler Daemon Enabled	BATCHDAEMON	
Enable Batch Edit Functionality	BATCHEDIT_ENABLED	
Batch Online Log Directory	BATCH_ONLINE_LOG_DIR	
JDBC Read Timeout	JDBC_TIMEOUT	
Enable JMS Global Flush for Batch	ENABLE_JMS_GLOBAL_FLUSH	
Add UsernameToken.xml	ADD_USERNAMETOKEN_XML	
IWS deployment target	WLS_CLUSTER_NAME	
Web Admin Server Host	WEB_ADMIN_SERVER	
Split File Size in MB	TEMPSTORAGE_SPLITFILESIZE	
GIS Service Running on the same Web Server	GIS	
GIS Service URL	GIS_URL	
GIS WebLogic System User ID	GIS_WLSYSUSER	
GIS WebLogic System Password	GIS_WLSYSPASS	
Online Display Software Home	ONLINE_DISPLAY_HOME	
Max Queries To Hold In Cache Across All Threads	XQUERIES_TO_CACHE	
Seconds Timeout Flush Cache Completely	XQUERY_CACHE_FLUSH_TIMEOUT	
Malware Scan Host	MALWARE_SCAN_HOST	

Menu Option	Name Used in Documentation	Customer Value Install
Malware Scan Port	MALWARE_SCAN_PORT	
Malware Scan Timeout (Seconds)	MALWARE_SCAN_TIMEOUT	

Menu Block 51 - Advanced Environment Memory Configuration

The advanced environment memory configurations include:

Menu Option	Name Used in Documentation	Customer Install Value
Global JVM Arguments	GLOBAL_JVMARGS	
Ant Min Heap Size	ANT_OPT_MIN	
Ant Max Heap Size	ANT_OPT_MAX	
Ant Additional Options	ANT_ADDITIONAL_OPT	
Thread Pool Worker Java Min Heap Size	BATCH_MEMORY_OPT_MIN	
Thread Pool Worker Java Max Heap Size	BATCH_MEMORY_OPT_MAX	
Thread Pool Worker Additional Options	BATCH_MEMORY_ ADDITIONAL_OPT	

Menu Block 52 - Advanced Web Application Configuration

Advanced web application configurations include:

Menu Option	Name Used in Documentation	Customer Install Value
HTTP Allowed Methods	HTTP_ALLOWED_METHODS	
Web Application Cache Settings	WEB_L2_CACHE_MODE	
Web Server Port Number	WEB_WLPORT	
CSRF Protection For REST Services	CSRF_PROTECTION	
OWSM Protection For REST Services	OWSM_PROTECTION_FOR_RES T_SERVICES	
Domain Home Location	WLS_DOMAIN_HOME	
Batch Cluster URL	WEB_BATCH_CLUSTER_URL	
Strip HTML Comments	STRIP_HTML_COMMENTS	
Authentication Login Page Type	WEB_WLAUTHMETHOD	

Menu Option	Name Used in Documentation	Customer Install Value
Web Form Login Page	WEB_FORM_LOGIN_PAGE	
Web Form Login Error Page	WEB_FORM_LOGIN_ERROR_ PAGE	
Javadocs Login Page	WEB_JAVADOCS_FORM_LOGIN _PAGE	
Javadocs Form Login Error Page	WEB_JAVADOCS_FORM_LOGIN _ERROR_PAGE	
Web Security Role	WEB_ROLE_NAME	
Web Principal Name	WEB_PRINCIPAL_NAME	
Javadocs Security Role	WEB_JAVADOCS_ROLE_NAME	
Javadocs Principal Name	WEB_JAVADOCS_PRINCIPAL_N AME	
Use development Configuration	WEB_ISDEVELOPMENT	
Preload All Pages on Startup	WEB_PRELOADALL	
Maximum Age of a Cache Entry for Text	WEB_MAXAGE	
Maximum Age of a Cache Entry for Images	WEB_MAXAGEI	
JSP Recompile Interval (s)	WEB_ WLPAGECHECKSECONDS	
Enable Strict Transport Security		
Strict Transport Security Max Age	HSTS_MAX_AGE	
Strict Transport Security Include Subdomains	HSTS_SUBDOMAINS	
Strict Transport Security Preload	HSTS_PRELOAD	
Oracle Guided Learning Id	ORACLE_GUIDED_LEARNING _ID	
Cookie Path Restriction	COOKIE_PATH_RESTRICTION	
Oracle APM URL	ORACLE_APM_URL	
Oracle APM Key	ORACLE_APM_KEY	
Enable host header request validation	ENABLE_HOST_HEADER_CHE CK	
Valid domain name for HTTP request header dynamic host check	DOMAIN_NAME	

Menu Block 54 - WebLogic Diagnostics

WebLogic diagnostic options include:

Menu Option	Name Used in Documentation	Customer Install Value
Diagnostic Context Enabled	WLS_DIAGNOSTIC_CONTEXT_ ENABLED	

Menu Block 55 - URI, File and URL Related Options

URI, File and URL Related Options include:

Menu Option	Name Used in Documentation	Customer Install Value
Enable CORS For Embedded UI	ENABLE_CORS	
Allowed Frame Ancestors Max Number	CORS_ALLOWED_FRAME_ANC ESTORS_MAX_NUMBER	
URI For Variable CSP_FRAME_ANS_HOST1	CORS_CSP_FRAME_ANS_ HOST1	
URI For Variable CSP_FRAME_ANS_HOST2	CORS_CSP_FRAME_ANS_ HOST2	
Custom URL For CSP img-src	CSP_URL_IMG_SRC	
Custom URL For CSP script-src	CSP_URL_SCRIPT_SRC	
Custom URL For CSP style-src	CSP_STYLE_SRC	
Custom URL For CSP font-src	CSP_FONT_SRC	
Custom URL For CSP connect-src	CSP_CONNECT_SRC	
Custom URL For CSP frame-src	CSP_URL_FRAME_SRC	
Custom URL For CSP form-action	CSP_FORM_ACTION_SRC	
URI For Variable FA_DOMAIN	CORS_FA_DOMAIN	
URI For Variable ALM_DOMAIN	CORS_ALM_DOMAIN	
Restriction URLs Enable	CLOUD_RESTRICTION_URLS_E NABLE	
Custom SQL Security	CUSTOM_SQL_SECURITY	
White List Full Path	CLOUD_WHITE_LIST_PATH	
Custom White List Full Path	CLOUD_CUSTOM_WHITE_LIST _PATH	
Substitution Variable List File Location	CLOUD_SUBSTITUTION_VARIA BLE_LIST_FILE_LOCATION	
Directory For Variable F1_CMA_FILES	CLOUD_LOCATION_F1_MIGR_ ASSISTANT_FILES	

Menu Option	Name Used in Documentation	Customer Install Value
URI For Variable F1_OAUTH2_URI	CLOUD_LOCATION_F1_OAUT H2_URI	
URI for Variable F1_BASE_REST_URL	CLOUD_LOCATION_F1_BASE_ REST_URL	
URI for Variable F1_OPEN_API_BASE_URL	CLOUD_LOCATION_F1_OPEN_ API_BASE_URL	
URI For Variable F1_BASE_WEB_URI	CLOUD_LOCATION_F1_BASE_ WEB_URI	
URI For Variable F1_BASE_IWS_URI	CLOUD_LOCATION_F1_BASE_I WS_URI	
Consolidated Logfile Full Path	CONSOLIDATED_LOG_FILE_ PATH	
Temporary File Location	TMP_FILE_LOCATION	

Menu Block 57 - REST Settings for JMX

REST settings for JMX configurations include:

Menu Option	Name Used in Documentation	Customer Install Value
Enable/Disable REST Service For The JMX	JMX_REST_SERVICE_FLAG	
Hostname To Run The REST Server	JMX_REST_SERVICE_HOST	
Batch Port For REST Server	JMX_REST_PORT_BATCH	
Web Port For REST Server	JMX_REST_PORT_WEB	
Business Server Port For REST Server	JMX_REST_PORT_SERVICE	
Server Context	JMX_REST_CONTEXT	
SSL Flag	JMX_HTTPSSL_FLAG	
Keystore File Path	JMX_HTTPSSL_KEYSTORE_ FILE	
Keystore Type	JMX_HTTPSSL_KEYSTORE_ TYPE	
Keystore Passphrase	JMX_HTTPSSL_KEYSTORE_ PASSPHRASE	
Keypair Passphrase	JMX_HTTPSSL_KEYPAIR_ PASSPHRASE	

Menu Option	Name Used in Documentation	Customer Install Value
Trust Store File Path	JMX_HTTPSSL_TRUSTSTORE_ FILE	
Truststore Type	JMX_HTTPSSL_TRUSTSTORE_ TYPE	
Truststore Passphrase	JMX_HTTPSSL_TRUSTSTORE_ PASSPHRASE	
Http Server Username For Authentication	JMX_HTTP_REST_USERNAME	
Http Server Password For Authentication	JMX_HTTP_REST_PASSWORD	

Menu Block 58 - WebService Authentication Configuration

Web service authentication configurations include:

Menu Option	Name Used in Documentation	Customer Install Value
enable multispeak30 protocol	ENABLE_MULTISPEAK30	
enable multispeak41 protocol	ENABLE_MULTISPEAK41	
enable cim12 protocol	ENABLE_CIM12	
enable cim20 protocol	ENABLE_CIM20	

Menu Block 60 - Advanced Configurations for OSB

The advanced configurations for OSB include:

Menu Option	Name Used in Documentation	Customer Install Value
Enable OSB SSL Port	false	
OSB Trust Keystore Type	Demo	
OSB Trust Keystore File Type	JKS	
OSB Trust Keystore File		

Menu Block 61 - Advanced Memory Configurations for SOA

The advanced memory configurations for SOA include:

Menu Option	Name Used in Documentation	Customer Install Value
SOA Initial Heap Size	1024	
SOA Maximum Heap Size	2048	
SOA Minimum Perm Size	512	
SOA Maximum Perm Size	1024	
SOA Application Additional Options		
The name of the OWSM policy to use when SOA calls another SOA service	oracle/ http_basic_auth_over_ssl_client_ policy	
The name of the OWSM policy to use when SOA is called by another SOA service	oracle/ http_basic_auth_over_ssl_service_ policy	
The name of the OWSM policy to use when SOA calls an OUAF service	oracle/ wss_http_token_over_ssl_client_ policy	

Menu Block 62 - Advanced Memory Configurations for OSB

The advanced memory configurations for OSB include:

Menu Option	Name Used in Documentation	Customer Install Value
OSB Initial Heap Size	512	
OSB Maximum Heap Size	1024	
OSB Minimum Perm Size	512	
OSB Maximum Perm Size	1024	
OSB Application Additional Options		

Menu Block 63 - Data Migration

The data migration configurations include:

Menu Option	Name Used in Documentation	Customer Install Value
Enable Data Migration	FALSE	

Menu Option	Name Used in Documentation	Customer Install Value
Data Migration Database User		
Data Migration Database Password		

Menu Block 64 - Advanced Configurations for SOA

The advanced configurations for SOA include:

Menu Option	Name Used in Documentation	Customer Install Value
Enable SOA SSL Port	false	
SOA Trust Keystore Type	Demo	
SOA Trust Keystore File Type	JKS	
SOA Trust Keystore File		

Menu Block 70 - SSN SOA TestHarness Configurations

The SSN SOA TestHarness configurations include:

Menu Option	Name Used in Documentation	Customer Install Value
SSN TestHarness SOA Host Server	slc11cds.us.oracle.com	
SSN TestHarness SOA Port Number	8920	
SSN SOA TestHarness Partition Name	SSN_Test	
SSN SOA TestHarness Queue JNDI Name	queue/SSNTestSSNODRQ	

Chapter 5

Installing Application Server Prerequisite Software

This chapter describes the software that needs to be installed for each of the supported operating system and application server combinations.

- Oracle Linux 8.x/9.x and Red Hat Linux 8.x/9.x Application Server
- Windows 2012 Application Server
- Additional Prerequisite Software Information

Oracle Linux 8.x/9.x and Red Hat Linux 8.x/9.x 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	Chipsets	Application Server
Oracle Linux 8.x/9.x (64-bit)	x86_64	Oracle WebLogic 14.1.2.x (64-bit)
Red Hat Enterprise Linux 8.x/9.x (64-bit)		

Web/Application Server Tier

Oracle Enterprise Linux 8.x/9.x or Red Hat Enterprise Linux 8.x/9.x Operating System Running on x86_64 64-bit Architecture

UNIX Administrator UserID

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

Description	Default Value	Customer Defined Value
DAM Administrator User ID	cissys	
DAM 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 the 'cisusr' user group.
- 2. Create the 'cissys' user. Primary group cisusr. Set the primary shell for the cissys user to Korn Shell.

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 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 077 to ensure files created during normal operation have the correct permissions.

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

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.

You must use the same user for starting and stopping a process. For example, if cissys is used to start the application server, the use cissys to stop it as well.

Oracle Database Client 19c - 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 V17 or Later (64-Bit)

At the time of release, obtain the Oracle Java packages from: https://www.oracle.com/java/technologies/downloads/

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.

Oracle WebLogic Server 14.1.2.x (64-bit)

Oracle WebLogic software can be downloaded from the Oracle website. 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 14.1.2.x.

Note: Starting Oracle Utilities Application Framework V25.10, WebLogic native installation is required. Refer to the *Oracle WebLogic Configuration Guide for Oracle Utilities Application Framework (Doc ID 2413918.1)* document on My Oracle Support.

Windows 2012 Application Server

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

Note: Windows Server is not supported for Production environments. Wherever Windows Server is referenced within this guide, it is supported for Test or Development environments only.

Supported Application Servers

Operating System	Chipsets	Application Server
Window Server 2012	x86_64	Oracle WebLogic 14.1.2.x (64-bit) version

Web/Application Server Tier

File and Directory Names Limitations

File and directory names cannot contain spaces. Due to the limitations in Windows, fully qualified filenames cannot exceed 2047 characters.

Oracle Database Client 19c - 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 V17 or Later (64-Bit)

At the time of release, obtain the Oracle Java packages from: https://www.oracle.com/java/technologies/downloads/

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.

Oracle WebLogic Server 14.1.2.x (64-bit)

Oracle WebLogic software can be downloaded from the Oracle website. 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 14.1.2.x.

Note: Starting Oracle Utilities Application Framework V25.10, WebLogic native installation is required. Refer to the *Oracle WebLogic Configuration Guide for Oracle Utilities Application Framework (Doc ID 2413918.1)* document on My Oracle Support.

Additional Prerequisite Software Information

This section outlines additional information related to installing the prerequisite software, including:

Setting Up and Using the Additional JAR Directory

Setting Up and Using the Additional JAR Directory

The additional JAR directory must be populated if the Web Application Server Home directory is not set.

For example: The environment is for batch only and the server has no WebLogic installed. In this scenario, the Additional JAR Directory must be created prior to the installation and the following list of WebLogic JARs should be copied to that directory (full path from the actual WebLogic location which must be installed in the web server).

The list of Additional files required for Oracle Utilities Application Framework 25.10:

```
<Web Application Server Home Directory>/server/lib/javaee-api-
8.0.1.jar
<Web Application Server Home Directory>/server/lib/
wlthint3client.jar
<Web Application Server Home Directory>/../oracle common/modules/
woodstox-core-6.4.0.jar
<Web Application Server Home Directory>/../oracle_common/modules/
gmbal-api-only-4.0.3.jar
<Web Application Server Home Directory>/../oracle common/modules/
jakarta.activation-1.2.2.jar
<Web Application Server Home Directory>/../oracle common/modules/
jakarta.jws-api-1.1.1.jar
<Web Application Server Home Directory>/../oracle_common/modules/
jakarta.xml.bind-api-2.3.3.jar
<Web Application Server Home Directory>/../oracle common/modules/
jakarta.xml.soap-api-1.4.2.jar
```

```
<Web Application Server Home Directory>/../oracle common/modules/
javax.mail-1.6.2.jar
<Web Application Server Home Directory>/../oracle common/modules/
jaxb-impl-2.3.5-b230912.1728.jar
<Web Application Server Home Directory>/../oracle common/modules/
jaxws-rt-2.3.5.jar
<Web Application Server Home Directory>/../oracle common/modules/
jersey-client-2.45.jar
<Web Application Server Home Directory>/../oracle common/modules/
jersey-common-2.45.jar
<Web Application Server Home Directory>/../oracle common/modules/
jersey-media-multipart-2.45.jar
<Web Application Server Home Directory>/../oracle common/modules/
oauth2-client-2.45.jar
<Web Application Server Home Directory>/../oracle common/modules/
stax2-api-4.2.1.jar
<Web Application Server Home Directory>/../oracle_common/modules/
policy-2.7.10.jar
<Web Application Server Home Directory>/../oracle common/modules/
saaj-impl-1.5.3.jar
<Web Application Server Home Directory>/../oracle common/modules/
stax-ex-1.8.3.jar
<Web Application Server Home Directory>/../oracle common/modules/
streambuffer-1.5.10.jar
<Web Application Server Home Directory>/../oracle common/modules/
endorsed/jakarta.xml.ws-api-2.3.3.jar
```

Note the following:

- Refer to this list rather than the additional information shown in the Installation Menu.
- This list may change due to post-release library updates through patches. For the latest updates, consult the relevant patch product fix document (PFD).

If the **Web Application Server Home Directory** is populated, the initialSetup process will pull those JARs from that directory. If it is not populated, the initialSetup process will pull those JARs from the **Additional JAR Directory**.

Chapter 6

Installing the Application Server Component of Oracle Utilities Application Framework

Installing Oracle Utilities Application Framework ("the framework") is the prerequisite and foundation for installing a framework-based application such as Oracle Utilities Digital Asset Management. This chapter describes the process to install Oracle Utilities Application Framework, including:

- Installation Overview
- Pre-Installation Tasks
- Installing Oracle Utilities Application Framework

Installation Overview

The installation packages for your Oracle Utilities Application Framework-based application must be downloaded from the Oracle Software Delivery Cloud.

Application server installations are new, you cannot upgrade an existing application server. The database installation can be an initial install or an upgrade install.

Before you proceed with the installation process:

- 1. Complete the database installation/upgrade process. Refer to the *Oracle Utilities Digital Asset Management Database Administrator's Guide* on Oracle Help Center.
- 2. Make sure that you have installed all the required third-party software as described in Installing Application Server Prerequisite Software.

Once the Oracle Utilities Application Framework installation is successfully completed and the framework application environment is created, Oracle Utilities Digital Asset Management can be installed on top of the framework environment.

You can download the installation packages from the Oracle Software Delivery Cloud.

This section describes how to install a working Oracle Utilities Application Framework Server, which can then be further configured manually to allow for production performance levels.

Application server installation packages delivered for this version are multi-platform and are ready to install on any supported platform (as described in).

Pre-Installation Tasks

Hardware and Software Version Prerequisites

Supported Platforms and Hardware Requirements contains all of the available platforms that are required with this release of the product.

Database Installation

Verify that the database has been installed and is operational. For more information, see the Oracle Utilities Digital Asset Management Database Administrator's Guide on Oracle Help Center.

Installation Prerequisites

Installing Application Server Prerequisite Software describes all preparations that need to be done on the server prior to installing the application server. Please read carefully the server setup requirements and make sure that all prerequisite software is installed and that all required environment variables are set. Correct server setup and proper environment variable settings are an essential prerequisite for successful environment installation.

System Architecture Overview

Oracle Utilities Application Framework V25.10 is a decoupled system architecture involving a business service application tier and a web application tier. Typically both will run on the same server, but the design does allow each tier to be installed on separate servers.

The design implements a stateless session bean (EJB technology, under Java EE 7), to provide remote access to service invocations. The root web app and XAI web apps can be configured to access service processing locally (as in previous versions), or to make a remote EJB call to perform the service request. In the latter case, the served containers, effectively, run as very thin servlet wrappers around the remote call.

For all supported application servers except for WebLogic expanded configuration (SDK environment), the deployment is in the form of two Enterprise Archive (ear) Files: SPLService.ear and SPLWeb.ear. Web Archive (war) files are created during the installation process but are not deployed.

Copying and Decompressing Install Media

To copy and decompress the Oracle Utilities Digital Asset Management installation media:

- Download Oracle Utilities Digital Asset Management V25.10 from Oracle Software Delivery Cloud (eDelivery) and extract the following:
 - Oracle Utilities Application Framework V25.10 Application Installation Media
 - Oracle Utilities Application Framework V25.10 Single Fix Prerequisite Rollup for Oracle Utilities Digital Asset Management V25.10 (if there is any)
 - Oracle Utilities Customer Care and Billing V25.10 for Multiplatform
 - Oracle Utilities Customer Care and Billing V25.10 Single Fix Prerequisite Rollup for Oracle Utilities Digital Asset Management V25.10 (if there is any)
 - Oracle Utilities Meter Data Management V25.10 Multiplatform
 - Oracle Utilities Meter Data Management V25.10 Single Fix Prerequisite Rollup for Oracle Utilities Digital Asset Management V25.10 (if there is any)
 - Oracle Utilities Work and Asset Management V25.10 Multiplatform
 - Oracle Utilities Work and Asset Management V25.10 Single Fix Prerequisite Rollup for Oracle Utilities Digital Asset Management V25.10 (if there is any)
 - Oracle Utilities Digital Asset Management V25.10 for Multiplatform
 - Oracle Utilities Digital Asset Management V25.10 Single Fix Prerequisite Rollup for Oracle Utilities Digital Asset Management V25.10 (if there is any)
- Copy the following Oracle Utilities Digital Asset Management files to your local machine:
 - FW-V25.10-Multiplatform
 - C2M-V25.10-FW-PREREQ-MultiPlatform (if there is any)
 - CCB-V25.10-Multiplatform
 - CCB-V25.10-Rollup-MultiPlatform (if there is any)
 - MDM-V25.10-Multiplatform

- MDM-V25.10-Rollup-Multiplatform (if there is any)
- Oracle Utilities Work and Asset Management V25.10 Multiplatform
- WAM-V25.10-Rollup-Multiplatform (if there is any)
- C2M-V25.10-Multiplatform
- C2M-V25.10-Rollup-MultiPlatform (if there is any)

The Oracle Utilities Application Framework V25.10 installation file is delivered in jar format for both UNIX and Windows platforms.

If you are planning to install multiple Oracle Utilities Application Framework V25.10 environments operated by different Oracle Utilities administrator user IDs, you must complete each of the following installation steps for each administrator user ID.

To copy and decompress the install media:

- 1. Login to the application server host with the Oracle Utilities Application Framework administrator user ID.
- 2. Download the Oracle Utilities Application Framework V25.10 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 downloaded application zip file to the <TEMPDIR>.
- 5. Decompress the file:

```
cd <TEMPDIR>
unzip -q <INSTALL MEDIA ZIP FILE NAME>
```

A sub-directory with name "FW-V25.10" is created. It contains the installation software for the Oracle Utilities framework application server.

Set 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-V25.10 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 Application 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 Application 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.

Installing Oracle Utilities Application Framework

This section outlines the steps for installing the Application Framework. It includes the following:

- Installation Process (Brief Description)
- Installation Process (Detailed Description)
- Upgrading Oracle Utilities Application Framework
- Detailed Description for Configuring the OUAF Keystore

Installation Process (Brief Description)

- 1. Login as the Oracle Utilities Framework administrator (the default is cissys on UNIX) or as a user with Administrator privileges (on Windows).
- 2. Configure your application server and any third-party software required for your platform, as outlined in Installing Application Server Prerequisite Software.
- 3. Change directory to the <TEMPDIR>/FW-V25.10 directory.
- 4. Set the following path:

```
export PATH=/<JAVA_HOME>/bin:/<JAVA_HOME>/lib:$PATH
```

Note: The above command is only applicable on a Unix platform. <JAVA_HOME> is the location where the JDK has been installed.

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

For Upgrade Install, please note the following:

- The upgrade install does not clean files or libraries that were removed from the latest version, so the Initial Install is recommended.
- To upgrade from a Oracle Utilities Application Framework version lower than 25.10 to a version greater or equal to 25.10, follow the instructions in the Upgrading Oracle Utilities Application Framework section.
- Set the environment to be upgraded using splenviron.sh|.cmd -e <ENV NAME>. Then, run the following:

UNIX:

ksh ./install.sh

Windows:

install.cmd

- Follow the messages and instructions that are produced by the application
 installation utility. Use the completed worksheets in Planning the Installation to assist
 you.
- 7. Installation of Oracle Utilities Framework Application Server is complete if no errors occurred during installation.

Installation Process (Detailed Description)

- Login to the host server as Oracle Utilities Application Framework administrator.
 Login as cissys (on UNIX) or as a user with Administrator privileges (on Windows).
- 2. Configure application server and third-party software.

Complete all steps outlined in Installing Application Server Prerequisite Software. You will need to obtain specific information for the install.

3. Change directory to the *<TEMPDIR>/FW-V25.10* directory and start the application installation utility by executing the appropriate script:

Unix:

ksh ./install.sh

Windows:

install.cmd

 On the Environment Installation Options menu, select item 1: Environment ID, Roles, Third Party Software Configuration.

Use the completed Environment ID, Roles, Third Party Software Configuration worksheet in Installation Menu Functionality Overview to complete this step.

5. Select menu item 2: Keystore Options.

Use the completed Keystore Options Worksheet to complete this step. See Installation Menu Functionality Overview.

6. Select menu item 50: Environment Installation Options.

Use the completed Environment Installation Options Worksheet to complete this step. See Installation Menu Functionality Overview.

Note: You must create the directory for output (the Log Mount Point). The installation process fails if this directory does not exist.

- Specify the environment mount point, log files mount point, name and the environment directory names for a new installation on a menu screen.
- Specify the web application server type your environment will run with (the default will be WebLogic).
- Specify if you want to install the application viewer module.
- Specify if you want to install the demo certificate generation scripts.
- Specify if you want to install sample custom code.
- Enter P to accept the selected options.
- During this step, the specification of a new environment is checked for validity against /etc/cistab and the permissions on mount points and directories.
- 7. Configure the environment parameters.
 - During this step you will configure environment parameters such as web server hosts and ports, database name, and user ID.
 - The application installation utility shows default values for some configuration options.
 - Use the completed Environment Configuration Worksheet to assist you.

Note: Some options require a value for a successful install. It is important to provide these values as described in the previous sections.

- When you are done with the parameters setup, proceed with the option P.
- All of the options will be written in the following File: \$ SPLEBASE/etc/ ENVIRON.INI.
- You will be warned if you did not edit a section. You may proceed if you want to keep the default settings.
- The application installation utility copies the installation media to a new environment.
- The application installation utility generates environment configuration parameters.

The application installation utility automatically executes the script initialSetup.sh (on UNIX) or initialSetup.cmd (on Windows), located in \$SPLEBASE/bin (%SPLEBASE%\bin on Windows) directory. This script populates different application template configuration files with the new environment variables values and completes the rest of the installation steps.

8. Set up environment variables.

Once the ENVIRON.INI file is created and contains the correct environment parameters, the application installation utility starts a sub shell to the current process by executing the splenviron.sh (on UNIX) or splenviron.cmd (on Windows) script, located in \$SPLEBASE/bin (or *%SPLEBSE%\eta for Windows*) directory. This script sets up all the necessary environment variables and shell settings for the application server to function correctly.

From this point, a number of environment variables have been set up. Some key ones are:

- \$PATH: An adjustment to \$PATH is made so that all of the environment scripts and objects will be in the path.
- \$SPLEBASE (%SPLEBASE%): Stands for <SPLDIR>/
 <SPLENVIRON> directory
- \$SPLOUTPUT (%SPLOUTPUT%): Stands for <SPLDIROUT>/
 <SPLENVIRON> directory
- \$SPLENVIRON (%SPLENVIRON%): Environment name

For future operations or any post installation steps, you need to first execute the following command to setup your session to the new environment:

UNIX:

```
$SPLEBASE/bin/splenviron.sh -e <SPLENVIRON>
```

Windows:

```
%SPLEBASE%\bin\splenviron.cmd -e <SPLENVIRON>
```

You need to execute this script each time you want to be connected to the specific environment before performing manual operations such as shutdown, startup or performing an additional application product installation.

When you have finished the install process, your current online session will be connected to the new environment.

Refer to Planning the Installation for settings and configuration.

Upgrading Oracle Utilities Application Framework

To upgrade a Oracle Utilities Application Framework version which is lower than 25.10 to version 25.10 or higher, follow these instructions:

Note that these instructions refer to Unix platforms. For Windows, use the ".cmd" extension instead of ".sh" and provide the syntax for respective environmental variables and directories.

- 1. Install the prerequisite software on the server.
 - Java 17
 - Oracle FMW Infrastructure 14
 - Oracle Database Client 19c
- 2. Shut down the environment that you need to upgrade.
- 3. Take a full backup of the environment.
- 4. Run the following command:

```
splenviron.sh -e <ENV_NAME>
```

5. Run the following command:

```
ksh ./install.sh -u
```

- 6. Run the "configureEnv.sh -i" command and set Oracle Client Home, Web Java Home, and Web Application Server Home.
- 7. Run the "splenviron.sh -e <ENV_NAME>" command.
- 8. Run the "configureEnv.sh" and update Domain Home Location (menu block_52), ports, and server, if needed.
- 9. Run the "configureEnv.sh -ic" command.
- 10. Run the "configureEnv.sh -c" command.
- 11. Run the "initialSetup.sh" command.
- 12. Review and incorporate the content of the most recent \$SPLEBASE/tools/examples/bin/setUserOverride.sh in your WebLogic 14 domain.
- 13. Redeploy and restart the environment and batch.

Detailed Description for Configuring the OUAF Keystore

The following section details the steps required to configure the OUAF keystore.

OUAF Keystore

The OUAF Keystore feature secures sensitive data such as passwords and prevents tampering of long login IDs via direct updates to the database. The application server uses an external keystore to store keys for system password and other sensitive system

data including user "hashes" that are used to verify the validity of email long login IDs. In order to run the application correctly, the keystore used by the application server must match the data encrypted in the database. If they do not match, the application will not be able to decrypt passwords correct, nor will users be able to log on due to a mismatch of user security hashes.

To help manage the keystore and ensure that the keystore matches the database-encypted data, there is a system check at startup of the application that display warning messages when the system detects that the keystore in use does not match the encrypted data in the database. Thus after any keystore operation, fresh installation of the application, or reconfiguration to point to a different database, the keystore will need to be synchronized with the database. Synchronization of the keystore happens any time ChangeCryptographyKey or ResetCryptography key programs are run.

After running the cryptography programs, it is necessary to reset the database credentials used by the database patching utility with the nvokeDBUpdatePatch.sh|cmd script.

Note: The database utility ORADBI does not require the keystore files. Refer to the database documentation for more details.

The following lists the common administrative activities related to the keystore.

Determining Keystore in Use

You can determine if an existing application server uses a keystore through the existence of the files in the following location. (Use the ls -a option in Unix systems to list all files):

```
<SPLEBASE>/ks/.ouaf_keystore
<SPLEBASE>/ks/.ouaf_storepass
```

If there are no files in this location, then the system is not using a keystore. Starting from V4.2.0.2.0, a keystore should be in use.

Configuring the Keystore Options

If you would like to customize the keystore options, the Install Menu includes a section for keystore options as shown below. You can access the Install Menu later through (execute configureEnv.sh | cmd -i):

```
2. Keystore options
Import Keystore Directory:
Store Type: JCEKS
Alias: ouaf.system
Alias Key Algorithm: AES
Alias Key Size: 128
HMAC Alias: ouaf.system.hmac
Padding: PKCS5Padding
Mode: CBC
```

Importing an Existing Keystore

This will import a keystore from an existing environment to the current one. Use this when upgrading from V4.2.0.2.0 or when reconfiguring environments using different keystores and you want them to point to the same database schema (example: you want to have more than one application server pointing to the same database schema).

Follow these steps:

1. Enter the keystore options from the the install menu or from the configure Env.sh | cmd –i as above.

- 2. Run initialSetup.sh | cmd –s so that the keystore is imported and appropriate property files are updated.
- 3. Run configureEnv.sh | cmd and re-enter the passwords so they are encrypted with the imported keystore.
- 4. Run initialSetup.sh | cmd again to update property files with the encrypted data.
- 5. Run the following:

```
perl $SPLEBASE/bin/run_java_standalone.plx
com.splwg.shared.common.ChangeCryptographyKey -l -h
```

6. Run \$\$PLEBASE/bin/nvokeDBUpdatePatch.sh|cmd and follow the prompts.

You can use the -h option to obtain help.

Upgrading from the Legacy Keystore

This process:

- Synchronizes the keystore to the database
- Regenerates the user hashes
- Re-encrypts any passwords (from the legacy-encrypted passwords) using the current keystore.
- Is used only when upgrading from a framework prior to V4.2.0.2.0.

Follow these steps:

1. Run the following command:

```
perl $SPLEBASE/bin/run_java_standalone.plx
com.splwg.shared.common.ChangeCryptographyKey -l -h
```

2. Run \$SPLEBASE/bin/nvokeDBUpdatePatch.sh | cmd and follow the prompts. You can use the –h option to obtain help.

Forcing the Environment to Use the Current Keystore

This process will:

- Prompt for and encrypt application server-stored passwords
- Synchronize the keystore to the database
- Regenerate the user hashes
- Invalidate any database-stored passwords
- Use this option when, for example, a keystore has been lost, and thus, the system will not be able to decypt the passwords stored in the configuration files or database. All passwords will need to be reentered.

Follow these steps:

- 1. Using configureEnv.sh | cmd, re-enter the menu passwords to encrypt the data.
- 2. Run initialSetup.sh | cmd to update property files with the encrypted data.
- 3. Run the following commands:

```
perl $SPLEBASE/bin/run_java_standalone.plx
com.splwg.shared.common.ResetCryptographyKey
```

- 4. Run \$SPLEBASE/bin/nvokeDBUpdatePatch.sh | cmd and follow the prompts. You can use the –h option to obtain help.
- 5. Re-enter stored password information using the application (example: passwords for reports).

Synchronizing the Keystore

This process will:

- Synchronize the keystore to the database
- Regenerate the user hashes
- Follow these instructions only when you are sure the data in the database is encrypted with the current keystore. This is used to synchronize the keystore to the database.

Follow these steps:

1. Run the following:

```
perl $SPLEBASE/bin/run_java_standalone.plx
com.splwg.shared.common.ResetCryptographyKey
```

2. Run \$SPLEBASE/bin/nvokeDBUpdatePatch.sh | cmd and follow the prompts. You can use the –h option to obtain help.

Creating a New Keystore

This process will:

- Prompt for and encyrpt new application server-stored passwords
- Synchonize the keystore to the database
- Regenerate user hashes
- Decrypt the passwords using the old keystore and encrypt them using the new keystore.

Follow these steps:

- 1. Copy the old keystore to a temporary directory as a backup measure.
- 2. Run initialSetup.sh | cmd –k to generate the new keystore.
- 3. Using configureEnv.sh | cmd, re-enter the menu passwords to encrypt the data.
- 4. Run initialSetup.sh | cmd to update property files with the encrypted data.
- 5. Run the following:

```
perl $SPLEBASE/bin/run_ java_standalone.plx
-Dcom.oracle.ouaf.system.old.keystore.file={property-value}
-Dcom.oracle.ouaf.system.old.keystore.passwordFileName={property-value}
-Dcom.oracle.ouaf.system.old.keystore.type={property-value}
-Dcom.oracle.ouaf.system.old.keystore.alias={property-value}
-Dcom.oracle.ouaf.system.old.keystore.padding={property-value}
-Dcom.oracle.ouaf.system.old.keystore.mode={property-value}
com.splwq.shared.common.ChangeCryptographyKey
```

where {property-value} is related to the old keystore.

6. Run \$SPLEBASE/bin/nvokeDBUpdatePatch.sh | cmd and follow the prompts. You can use the –h option to obtain help.

Detailed Descri	ption for Co	onfiaurina the	OUAF Kev	store

Chapter 7

Installing Oracle Utilities Digital Asset Management

Important! Please note that Oracle Utilities Digital Asset Management is based on Oracle Utilities Customer to Meter and uses the Oracle Utilities Customer to Meter installation process. The installation procedures in this chapter use steps as that of Oracle Utilities Customer to Meter.

This chapter provides instructions to install Oracle Utilities Digital Asset Management.

- Prerequisites
- Installing Oracle Utilities Digital Asset Management Components
 - Installing Oracle Utilities Customer Care and Billing V25.10
 - Installing Oracle Utilities Meter Data Management V25.10
 - Installing Oracle Utilities Operational Device Management V25.10
 - Installing Oracle Utilities Digital Asset Management V25.10

Prerequisites

Before you can install the Oracle Utilities Digital Asset Management components, the following must be installed:

Oracle Utilities Application Framework V25.10

Refer to Installing the Application Server Component of Oracle Utilities Application Framework for instructions.

Installing Oracle Utilities Digital Asset Management Components

The Oracle Utilities Digital Asset Management installation includes:

- Installing Oracle Utilities Customer Care and Billing V25.10
- Installing Oracle Utilities Meter Data Management V25.10
- Installing Oracle Utilities Operational Device Management V25.10
- Installing Oracle Utilities Digital Asset Management V25.10

Installing Oracle Utilities Customer Care and Billing V25.10

This section describes the steps to install Oracle Utilities Customer Care and Billing, including:

- Copying and Decompressing Install Media
- Preparing for the Installation
- Installing the Oracle Utilities Customer Care and Billing Application Component

Copying and Decompressing Install Media

The installation file is delivered in jar format for both UNIX and Windows platforms.

Oracle Utilities Digital Asset Management is delivered in a separate installation package for each supported Operating System. Refer to the Supported Platforms section in Supported Platforms and Hardware Requirements for version and installation details regarding the database and operating system versions. Also refer to Installing Application Server Prerequisite Software for the prerequisite third-party software installation instructions.

Download the installation package for your operating system and proceed with the following instructions.

- 1. Login to the host 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. Create a <TEMPDIR> directory on the host server, which is independent of any current or other working Oracle Utilities Digital Asset Management application environment. This can be the same <TEMPDIR> used during the installation of the Oracle Utilities Application Framework.

- Copy the file CCB-V25.10-MultiPlatform.jar in the delivered package to a TEMPDIR>. To use FTP to transfer this file, make sure to use the BINARY option.
- 4. Decompress the file:

```
cd <TEMPDIR>
jar -xvf CCB-V25.10-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. You can locate the Java packages here: http://java.sun.com/products/archive/index.html.

For Windows installs, 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 CCB.V25.10 is created. The contents of the installation directory are identical for both platforms. The directory contains the install software for the application product.

Preparing for the Installation

- 1. Login as an Oracle Utilities Digital Asset Management Administrator (default is "cissys").
- 2. Initialize the Framework environment that you want to install the product into.

UNIX:

```
$SPLEBASE/bin/splenviron.sh -e $SPLENVIRON
```

Windows:

```
$SPLEBASE\bin\splenviron.cmd -e %SPLENVIRON%
```

3. Stop the environment if running.

Installing the Oracle Utilities Customer Care and Billing Application Component

To install the Oracle Utilities Customer Care and Billing application:

- 1. Change to the <TEMPDIR>/CCB.V25.10 directory.
- 2. Set the following path:

```
export PATH=<JAVA HOME>/bin:$PATH
```

Note: The above command is only applicable on a Linux platform. <JAVA_HOME> is the location where the JDK has been installed.

3. Run the following script:

UNIX

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

Windows

install.cmd

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

- 4. Follow the messages and instructions that are produced by the install utility. Please note that some of the steps may take some time to complete.
- 5. If the install utility execution was not stopped due to errors and you did not interrupt the execution, you have finished the installation of the Oracle Utilities Digital Asset Management Application product.
- 6. Run the following commands:

UNIX

```
splenviron.sh -e <ENV_NAME>
configureEnv.sh
Type P and <ENTER> (you don't need to change anything)
splenviron.sh -e <ENV_NAME>
initialSetup.sh
```

Windows

```
splenviron.cmd -e <ENV_NAME>
configureEnv.cmd -e <ENV_NAME>
Type P and <ENTER> (you don't need to change anything)
splenviron.cmd -e <ENV_NAME>
initialSetup.cmd
```

7. Start up the environment.

The final step of the installation process is the environment startup. The install utility executes the command spl.sh start (for UNIX) or spl.cmd start (for Windows) to start up the environment. You may start the environment by this command any time. Follow the messages on the screen and check the logs in \$SPLSYSTEMLOGS (%SPLSYSTEMLOGS% on Windows) directory to ensure that the environment was started successfully. If the startup failed, identify the problem by reviewing the logs, and start up the environment manually while you are connected to the new environment in your online session.

Installing Oracle Utilities Meter Data Management V25.10

This section describes how to install the Oracle Utilities Meter Data Management, including:

- Copying and Decompressing the Install Media
- Installing the Oracle Utilities Meter Data Management Application Component

To proceed with the Oracle Utilities Meter Data Management installation you need to be connected to the target Oracle Utilities Application Framework environment.

Copying and Decompressing the Install Media

The Oracle Utilities Meter Data Management installation file is delivered in jar format for UNIX .

To copy and decompress the install media:

1. Login to the application server host with the Oracle Utilities Application Framework administrator user ID.

- 2. Download the Oracle Utilities Meter Data Management V25.10 Multiplatform.zip 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. Unzip Oracle Utilities Meter Data Management V25.10 Multiplatform.zip to get the file MDM_V25.10.zip from the delivered package and copy to the <TEMPDIR>. To use FTP to transfer this file, use the BINARY option.
- 5. Decompress the file:

```
cd <TEMPDIR>
unzip MDM_V25.10.zip
cd App
```

For UNIX and Windows platforms, a sub-directory named MDM.V25.10 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 Oracle Utilities Meter Data Management Application Component

To install the Oracle Utilities Meter Data Management application component:

- 1. Login to the application server host as Oracle Utilities Application Framework 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 environment by running the appropriate command:

UNIX

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

Windows

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

- 4. Navigate to <TEMPDIR>/MDM.V25.10 directory.
- 5. Run the install script.

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

UNIX

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

Windows

install.cmd

6. Choose option P to proceed with the installation.

Note: The rest of the menu items can be ignored if you are installing only Oracle Utilities Meter Data Management.

The Oracle Utilities Meter Data Management installation is complete if no errors occurred during the installation.

Installing Oracle Utilities Operational Device Management V25.10

Important! Note that the Oracle Utilities Operational Device Management installation is not different from that of Oracle Utilities Work and Asset Management installation. Installing Oracle Utilities Work and Asset Management will install Oracle Utilities Operational Device Management also.

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

- Copying and Decompressing the Oracle Utilities Work and Asset Management Install Media
- Installing the Oracle Utilities Work and Asset Management Application Component

Copying and Decompressing the Oracle Utilities Work and Asset Management Install Media

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

To copy and decompress the install media:

- Login to the application server host as the administrator user ID (default cissys). This
 is the same user ID that was used to install the Oracle Utilities Application
 Framework.
- Download the Oracle Utilities Work and Asset Management V25.10 Multiplatform zip file from Oracle Software Delivery Cloud.
- Create a <TEMPDIR> directory on the host server, which is independent of any current or other working Oracle Utilities Work and Asset Management application environment.
 - This can be the same <TEMPDIR> used during the installation of the Oracle Utilities Application Framework.
- 4. Copy the WAM-V25.10-Multiplatform.jar file 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 WAM-V25.10-Multiplatform.jar
```

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

A sub-directory W1.V25.10 is created for both UNIX and Windows platforms. The contents of the installation directory are identical for both platforms. The directory contains the install software for the application product.

Installing the Oracle Utilities Work and Asset Management Application Component

Follow these steps to install the Oracle Utilities Work and Asset Management application component:

- 1. Login to the application server host as the administrator user ID (default cissys).
- 2. Change the directory.

```
cd <install dir>
```

where <install_dir> is the location where the Oracle Utilities Application Framework V25.10 base application component is installed.

3. Initialize the environment.

UNIX

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

Windows

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

Change to the <TEMPDIR>/W1.V25.10 directory where <install_dir> is the
Oracle Utilities Work and Asset Management application component installation
directory.

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

UNIX

ksh ./install.sh

Windows

install.cmd

5. Initialize the environment.

UNIX

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

Windows

splenviron.cmd -e <ENV NAME>

Installing Oracle Utilities Digital Asset Management V25.10

This section describes how to install Oracle Utilities Digital Asset Management, including:

- Copying and Decompressing the Install Media
- Installing the Oracle Utilities Digital Asset Management Application Component

Copying and Decompressing the Install Media

The installation file is delivered in jar format for both UNIX and Windows platforms.

Oracle Utilities Digital Asset Management is delivered as a separate installation package that can be downloaded along with Oracle Utilities Digital Asset Management V25.10.

Download the installation package and proceed as follows:

- 1. Login to the host 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.
- Create a <TEMPDIR> directory on the application server, which is independent of
 any current or other working Oracle Utilities Digital Asset Management application
 environment. This can be the same <TEMPDIR> used during the installation of the
 Oracle Utilities Application Framework.
- 3. Copy the C2M.V25.10-MultiPlatform.jar file 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.
- 4. Decompress the file:

```
cd <TEMPDIR>
jar -xvf C2M-V25.10-MultiPlatform.jar
```

For UNIX platform, a sub-directory named C2M.V25.10 is created. The contents of the installation directory are identical for both platforms. The directory contains the install software for the application.

Installing the Oracle Utilities Digital Asset Management Application Component

This section outlines the steps to install Oracle Utilities Digital Asset Management.

Preparing for the Installation

- 1. Login as an Oracle Utilities Digital Asset Management administrator (default cissys).
- 2. Initialize the Oracle Utilities Application Framework environment where the product should be installed.

UNIX

```
./splenviron.sh -e $SPLENVIRON
```

Windows

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

3. Stop the environment if running.

Installing the Application

- 1. Change to the <TEMPDIR>/C2M.V25.10 directory.
- 2. Run the following script.

UNIX

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

Windows

install.cmd

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

The Configuration menu for the Oracle Utilities Digital Asset Management application appears.

- 3. Choose option **P** to proceed with the installation (you need not modify anything).
- 4. Start up the environment.

Follow the message on the screen and review the logs in the \$SPLSYSTEMLOGS directory to ensure that the environment was started successfully.

If the startup failed, identify the problem by reviewing the logs. Resolve any issues before attempting to restart the environment.

Note: While starting the first time, log into the WebLogic console and provide system access to the 'cisusers' role. The WebLogic console application can be accessed through the following URL: http://<hostname>:portname>/console.

Chapter 8

Additional Tasks

This chapter describes tasks that should be completed after installing Oracle Utilities Digital Asset Management, including:

- Importing Self-Signed Certificates
- Sample WebLogic Configuration Script
- Customizing Configuration Files
- Centralized Properties Customization
- Integrating Existing Customer Modifications
- Building Javadocs Indexes
- Configuring the Environment for Batch Processing
- Customizing the Logo
- Domain Templates
- Database Patching
- Analytics Publisher Report Configuration

Importing Self-Signed Certificates

If you are using self-signed certificates and the Inbound Web Services (IWS) feature, then it is necessary to import these certificates into the OUAF truststore file.

Make sure to perform these steps before deploying the IWS application.

To import the self-signed certificates into the OUAF truststore:

- 1. Start WebLogic.
- 2. Initialize a command shell and setup the environment.

UNIX

```
$SPLEBASE/bin/splenviron.sh -e $SPLENVIRON
```

Example:

```
/ouaf/TEST ENVIRON1/bin/splenviron.sh -e TEST ENVIRON1
```

Windows

```
%SPLEBASE%\bin\splenviron.cmd -e %SPLENVIRON%
```

Example:

```
D:\ouaf\TEST ENVIRON1\bin\splenviron.cmd -e TEST ENVIRON1
```

3. Generate all information.

UNIX

```
$$PLEBASE/bin/initialSetup.sh -i [<server>:<port>]
```

Windows

```
%SPLEBASE%\bin\initialSetup.cmd -i [<server>:<port>]
```

If [<server>:<port>] values are not specified, they will be retrieved from ENVIRON.INI.

Sample WebLogic Configuration Script

The following sample WebLogic configuration script is provided as part of the Oracle Utilities Application Framework application:

Unix

```
$SPLEBASE/tools/examples/bin/setUserOverrides.sh
```

Windows

```
%SPLEBASE%\tools\examples\bin\setUserOverrides.cmd
```

These scripts are intended as examples. The parameters shown here serve as a starting point for your configuration. Before deploying in your environment, you must review and redefine these values to suit your implementation. Do not use the provided sample values in production environments.

Prerequisites

Before running these scripts, make sure that the environment has been initialized:

Unix

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

Windows

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

This step is required because the scripts retrieve option values from \$SPLEBASE/etc/ENVITON.INI via getconfvalue.plx, and set java.login.config within the Java options.

If the environment is not installed locally, you need to modify these scripts to reflect your specific setup.

Customizing Configuration Files

To make customer modifications to various configuration files, create a 'CM copy' of the template file or user exit instead. This preserves the changes whenever initialSetup is executed; else, the changes to the delivered template files will be lost if it is patched in the future.

Below is a sample procedure to customize the properties file of the SPLWeb web application:

- 1. Locate the spl.properties.template in the \$SPLEBASE/templates directory.
- 2. Copy the file to cm.spl.properties.template.
- 3. Apply the changes to cm.spl.properties.template.
- 4. Update the application war file with the latest changes:

Linux:

\$SPLEBASE/bin/initialSetup.sh

Windows:

%SPLEBASE%\bin\initialSetup.cmd

Refer to the Oracle Utilities Application Framework SDK documentation for more details.

Centralized Properties Customization

This feature gives the ability to add, modify, and remove properties in one file. The properties are propagated to the specified property files. The template process, which is part of the **initialSetup** step, will look at the files **etc/cm_properties.ini** (this can be created as a Customer Customization), if the file exists the content will be processed for the relevant properties.

Note: Product teams might use this file format: etc/ <PROD>_properties.ini (where <PROD> could be one of the list of installed products included in etc/PRODUCT.txt). If it exits it will be processed as well.

cm properties.ini Instructions

Type of entries that could be included into **cm_properties.ini** and relevant type of action:

<PROPERTIES FILE>:<PROPERTY NAME>=<VALUE>

- Override <PROPERTY_NAME> in <PROPERTIES_FILE> with <VALUE>, if exists.
- Insert < PROPERTY_NAME > in < PROPERTIES_FILE > with < VALUE >, if does not exist.

<PROPERTY_NAME>=<VALUE>

Override <PROPERTY_NAME> in all property files with <VALUE>, if <PROPERTY_NAME> exists.

<PROPERTIES_FILE>:<PROPERTY_NAME>=[DELETE]

• Remove <PROPERTY_NAME> from <PROPERTIES_FILE>, if exists.

<PROPERTY_NAME>=[DELETE]

 Remove <PROPERTY_NAME> from all property files, if <PROPERTY_NAME> exists.

Property Overriding Example

Template **spl.properties.template** property:

```
com.splwg.schema.newValidations.F1=false
```

cm_properties.ini content:

```
spl.properties.template:com.splwg.schema.newValidations.F1=true
```

spl.properties (generated properties file result):

The following line was overridden because <PROD>_properties.ini
file setting: com.splwg.schema.newValidations.F1 = true

Integrating Existing Customer Modifications

Existing Customer Modifications (CM) applied to an application server on an earlier release cannot be applied directly to a later version. CM code needs to be applied from an SDK version compatible with this release.

Refer to SDK documentation for more information about migrating CM code.

Building Javadocs Indexes

This is required after customer modifications (CM) have been applied to an environment when it includes Java code.

To rebuild the Javadoc indexes:

Windows

%SPLEBASE%\bin\buildJavadocsIndex.cmd

Linux

ksh \$SPLEBASE/bin/buildJavadocsIndex.sh

Configuring the Environment for Batch Processing

Refer to the Server Administration Guide for information about 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>.png 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>.png

Linux

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

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.

Domain Templates

Configure the WebLogic application server to deploy it. Refer to the *Oracle WebLogic Configuration Guide for Oracle Utilities Framework* (Doc ID 2413918.1) on My Oracle Support for more details.

Update Domain Home Location

The following update in the configuration indicates if the embedded configuration is being utilized or if the environment is a native installation to WebLogic. When this item is populated in the environment, the delivered base tools will be able to identify that the starting and stopping of the environment are being done under the domain home.

- 1. Initialize the Environment: splenviron.sh –e <Environment_Name>
- Execute: configureEnv.sh –a
- 3. Select Menu Item: 52. Advanced Web Application Configuration

4. 02. Configuration Option: Domain Home Location

Current Value <ENTER>:

The Weblogic Domain Home location, when this parameter is populated you will need to use the native Weblogic tools for maintenance (starting, stopping, deployment, and undeployment).

Enter Value: <Enter your domain home location>

5. Once the Domain Home location has been completed, enter <P>.

Database Patching

The database patching utility is delivered under SPLEBASE and is Java-based so you are able to create a standalone package to be able to install database patches on a separate server that has Java 17 installed. You can also install database patches using the components that are delivered under SPLEBASE without the need to move the database patching utility to a different server.

The following is an overview of the process to install database patches on a separate server. You will need to create a jar file containing the utilities and supporting files to allow you to run the database patch installer on another server.

To generate the jar file:

1. Initialize a command shell:

The scripts that are provided with the system need to be run from a shell prompt on the machine where you installed the application server. Before such scripts can be run the shell must be "initialized" by running the splenviron script provided with the system.

Linux

Login to your Linux box as the Oracle Utilities Administrator (default cissys) and open a shell prompt.

In the following example, replace the variables:

- \$SPLEBASE with the Full directory name that you installed the application into.
- \$SPLENVIRON with the name you gave to the environment at installation time.

To initialize the environment enter:

```
$SPLEBASE/bin/splenviron.sh -e $SPLENVIRON
```

For example:

```
/ouaf/DEMO/bin/splenviron.sh -e DEMO
```

Windows

The command window should be opened on the Windows server that you installed the application on.

In the below example you should replace the following variables:

- %SPLEBASE%: The Full directory name that you installed the application into.
- %SPLENVIRON%: The name you gave to the environment at installation time.

To initialize the environment, type the following in your command prompt:

```
%SPLEBASE%\bin\splenviron.cmd -e %SPLENVIRON%
```

For example:

```
D:\ouaf\DEMO\bin\splenviron.cmd -e DEMO
```

2. Execute the following script to generate the jar file.

Linux

ksh \$SPLEBASE/bin/createDBStandlone.sh

Windows

%SPLEBASE%\bin\createDBStandlone.cmd

Note: By default, the output jar db_patch_standalone.jar is created in SPLEBASE/tools/dbstandalone. You can use the –l option to change the default directory.

- 3. Transfer the generated jar (db_patch_standalone.jar) to the Windows/Linux machine where you want to run the database patching utility.
- 4. Extract the contents of the archive file:

```
jar xvf db_patch_standalone.jar
```

Note: You must have Java 17 JDK installed on the machine to use the jar command. Be sure to install the JDK that is supported for your platform.

Overview of Database Patching Application

The database patching utility requires you have Java 17 JDK installed on the machine to execute the database patch application process.

The patch application process will perform following items to account for executing patch application under SPLEBASE or on a standalone server.

The database patch application utility will look do the following when it is executed:

- Checks to see if the environment variable \$SPLEBASE is set.
 - If the \$SPLEBASE variable is set, the utility uses the libraries under \$SPLEBASE to apply the patch.
- When the \$SPLEBASE is not set, the utility checks to see if the TOOLSBIN environment variable is set.
 - If the TOOLSBIN is set, the utility uses the libraries under the TOOLSBIN location.
- When both SPLEBASE and TOOLSBIN environment are not set, the utility prompts for the location of the TOOLSBIN.

The TOOLSBIN is the location of the of the application scripts ouafDatabasePatch.sh[cmd].

Linux Example

The TOOLSBIN location would be set to /ouaf/dbpatch/bin

```
export TOOLSBIN=/ouaf/dbpatch/bin
```

Linux Sample - Database Patch Application (ouafDatabasePatch.sh)

Note: The default permissions (ouafDatabasePatch.sh), may need to be adjusted to be executed by your user and group, when applying database fixes.

Sample Execution: Passing a password

```
./ouafDatabasePatch.sh -x ouafadm -p "-t 0 -d CISADM Z1 12C 43030 BLD001,slc04lds:1522:Z143Q12C"
```

Sample Execution: Prompting for a password

```
./ouafDatabasePatch.sh -p "-t 0 -d CISADM Z1 12C 43030 BLD001,slc04lds:1522:Z143Q12C"
```

• Sample Execution: Passing in the tools bin location

```
/ouafDatabasePatch.sh -u
ouafDatabasePatch.sh [-h] [-u] [-v] [-x] [-t tools dir] [-p
ouafparms]
-h displays help of ouafpatch
-u displays usage of ouafDatabasePatch.sh
-v displays version of ouafpatch
-x password to be passed to ouafpatch
-b location of the tools bin directory
-p parameters directly passed to ouafpatch must be the last
parameter passed and be enclosed with quotes
```

WINDOWS Example

The TOOLSBIN location would be set to c:\ouaf\dbpatch\bin

```
SET TOOLSBIN=c:\ouaf\dbpatch\bin
```

Windows Sample: Database Patch Application (ouafDatabasePatch.cmd)

• Sample Execution: Passing a password

```
ouafDatabasePatch.cmd -x password -p "-t O -d SCHEMA NAME,DBSERVER:DBPORT:DBSID"
```

• Sample Execution: Prompting for a password

```
ouafDatabasePatch.cmd –p "-t O -d SCHEMA_NAME,DBSERVER:DBPORT:DBSID C"
```

• Sample Execution: Passing the tools bin location

```
ouafDatabasePatch.cmd -b "C:\temp\db_patch_standalone\bin" -p "-t O -d SCHEMA_NAME,DBSERVER:DBPORT:DBSID -c C:\temp\dbrollup\CDXPatch2\CDXPatch.ini"
```

Windows Sample Usage:

```
ouafDatabasePatch.cmd -u
USAGE:
USAGE:ouafDatabasePatch.cmd[-h] [-u] [-v] [-x] [-b tools dir] [-p
ouafparms]
               -h displays help of ouafpatch
USAGE:
USAGE:
              -u displays usage of ouafDatabasePatch.cmd
USAGE:
              -v displays version of ouafpatch
              -x password to be passed to ouafpatch
USAGE:
USAGE:
USAGE:
             -b location of the tools bin directory
              -p parameters directly passed to ouafpatch
                   must be enclosed with quotes: " "
USAGE:
```

USAGE: USAGE:

Analytics Publisher Report Configuration

This section describes the steps required to configure Oracle Utilities Meter Data Management and Oracle Analytics Publisher to support a reporting solution that uses Oracle Analytics Publisher.

This release of Oracle Utilities Digital Asset Management has a separate bundle with a sample Analytics Publisher 11g report.

Unzip Oracle Utilities Meter Data Management Report Files

- 1. Unzip the MDM-V25.10-Reports.zip file from the installation media into an <TEMPDIR> directory. We'll refer to this directory as the reports extract folder.
- 2. For both UNIX and Windows platforms, a sub-directory named AnalyticsPublisher11g is created. The contents of the installation directory are identical for both platforms.

Note: By default, the reports provided are read only. You will need to reset the permissions on the files before making any changes, for example, to configure the default data source.

Publish the Sample Reports in Oracle Analytics Publisher Enterprise

The installation media contains sample reports provided with the system. The report files are in the reports extract folder under < TEMPDIR >\AnalyticsPublisher11g\reportFiles.

Install Oracle Analytics Publisher Enterprise. This section assumes that you have already installed Oracle Analytics Publisher Enterprise.

To configure the Analytics Publisher reports:

- Create a folder named D2_VEEEME in the <Analytics_Repository_Path>\Reports folder.
- 2. Copy D2_VEEEME.xdo and D2_VEEEME.xdm folders to <Analytics_Repository_Path>\Reports\D2_VEEEME folder.

Note: To check the location of the <Analytics_Repository_Path>, login to the Analytics console as an Administrator and navigate to Administration > Server Configuration. If the repository type is File System, the path will be seen in the Catalog region. If the repository type is not a file system, you cannot load the sample reports.

- 3. Login to Analytics Publisher server as an Administrator.
- 4. Navigate to the **Administration** tab.
 - a. In the **JDBC Connection** section under **Data Sources**, add a new data source using **Add Data Source**.
 - b. Create a new data source named **D2 201 Dev** with connection details pointing to the D2 201 Dev database.
 - c. Test the connection to make sure the database connection is successful. Click **Apply** to save the changes.

Note: Make sure the Data Source Name (D2 201 Dev) is created with the same name. Else, the reports will not be displayed.

- 5. Navigate to the **Catalog** tab.
 - a. Click New > Report from the drop-down list. Select Use Existing Data
 Model to create new reports using existing data model, and then select Data
 Model from the Shared folders Catalog.

For example: ./Shared Folders/D2_VEEEME/D2_VEEEME.xdm)

- b. Click **Next** and select **Use Report Editor**. Click **Finish**.
- c. Select **My Folder** and save report name as D2_VEEEME.
- Navigate to Catalog tab > My folders and select D2_VEEEME Report. Click Open.

Once the report is open, click **Actions** and then click **Export Data as XML**. Save it.

- 7. Navigate to the **Catalog** tab, select **My Folders**, click **Edit Report** (D2_VEEEME) and then click Data Model D2_VEEEME. Under **Attachment**, click **Upload Sample data**, browse to the xml file saved (in step 6) and upload it. Click **Save and return**.
- 8. Click **Add New Layout**. Under **Upload or Generate Layout**, click **Upload** and enter the **Layout Name** as "D2_VEEEME.rtf".

Browse Template File to <BI_Repository_Path>\Reports\D2_VEEEME\D2_VEEEME.xdo folder and select D2_VEEEME.rtf file. In the **Type** field, select **RTF template** and **Locale** as **English** and click **Upload**.

9. Click **View Report** to view the reports.

Note: Follow the same steps to configure other reports except step 4.

Chapter 9

Upgrading Oracle Utilities Digital Asset Management

This chapter provides the instructions to upgrade Oracle Utilities Digital Asset Management, including:

- Upgrade Paths
- Before You Upgrade
- Upgrade Procedure
- Post-Upgrade Verifications
- Installing Service Packs and Patches

For information about implementation scenarios, refer to the *Oracle Utilities Customer to Meter Solution Implementation Guidelines* document at https://www.oracle.com/partners/en/products/industries/utilities/customer-solution/secure/implementation-guidelines-4024252.pdf.

Upgrade Paths

The following upgrade paths are applicable to this release:

From V25.4 to V25.10

Before you can upgrade you must have a prior version installed. If not, follow the procedures described in Installing the Application Server Component of Oracle Utilities Application Framework and Upgrading Oracle Utilities Digital Asset Management in this guide.

Before You Upgrade

Review the list of operating system, application server, and database server combinations supported for this version of Oracle Utilities Digital Asset Management in the Supported Platforms section in Supported Platforms and Hardware Requirements.

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

Copying and Decompressing Install Media for the Oracle Utilities Digital Asset Management Database and Application Components

Refer to the Copying and Decompressing Install Media section in Installing the Application Server Component of Oracle Utilities Application Framework for instructions on copying and decompressing install media.

Setting Permissions for the cistab file in UNIX for the Oracle Utilities Digital Asset Management Application Component

Refer to the Set Permissions for the cistab File in UNIX section in Installing the Application Server Component of Oracle Utilities Application Framework for instructions.

Upgrade Procedure

The upgrade installation procedure consists of:

- Upgrading the Database Component
- Upgrading the Application Component

Upgrading the Database Component

Upgrading the Oracle Utilities Digital Asset Management database component must be complete before you can upgrade the application component.

Refer to the **Upgrade Install** section in the *Oracle Utilities Digital Asset Management Database Administrator's Guide* included in this release for instructions to upgrade the database component.

Upgrading the Application Component

A successful upgrade consists of the following steps:

- Upgrading Oracle Utilities Customer Care and Billing to Oracle Utilities Digital Asset Management V25.10
- Upgrading Oracle Utilities Meter Data Management to Oracle Utilities Digital Asset Management V25.10
- Upgrading Oracle Utilities Operational Device Management to Oracle Utilities Digital Asset Management V25.10
- Upgrading Oracle Utilities Digital Asset Management to Oracle Utilities Digital Asset Management V25.10

Upgrading Oracle Utilities Customer Care and Billing to Oracle Utilities Digital Asset Management V25.10

This section assumes that only Oracle Utilities Customer Care and Billing exists on top of Oracle Utilities Application Framework. Make sure to perform the following for upgrade.

Upgrading Oracle Utilities Application Framework

For instructions, refer to Installing Oracle Utilities Application Framework.

To upgrade, use the following command:

Unix:

ksh ./install.sh -u

Windows:

install.cmd -u

Upgrading Oracle Utilities Customer Care and Billing V25.10

For instructions, refer to Installing Oracle Utilities Customer Care and Billing V25.10.

Installing Oracle Utilities Meter Data Management V25.10

For instructions, refer to Installing Oracle Utilities Meter Data Management V25.10.

Installing Oracle Utilities Operational Device Management V25.10

For instructions, refer to Installing Oracle Utilities Operational Device Management V25.10.

Installing Oracle Utilities Digital Asset Management V25.10

For instructions, refer to Installing Oracle Utilities Digital Asset Management V25.10.

Upgrading Oracle Utilities Meter Data Management to Oracle Utilities Digital Asset Management V25.10

This section assumes that only Oracle Utilities Meter Data Management exists on top of Oracle Utilities Application Framework.

Perform the following to upgrade Oracle Utilities Meter Data Management to Oracle Utilities Digital Asset Management.

Upgrading Oracle Utilities Application Framework

For instructions, refer to Installing Oracle Utilities Application Framework.

To upgrade, follow the command:

Unix:

ksh ./install.sh -u

Windows:

install.cmd -u

Note: The upgrade install does not clean files of libraries that were removed from the latest version.

Installing Oracle Utilities Customer Care and Billing V25.10

For instructions, refer to Installing Oracle Utilities Customer Care and Billing V25.10.

Upgrading Oracle Utilities Meter Data Management V25.10

For instructions, refer to Installing Oracle Utilities Meter Data Management V25.10.

Installing Oracle Utilities Operational Device Management V25.10

For instructions, refer to Installing Oracle Utilities Operational Device Management V25.10.

Installing Oracle Utilities Digital Asset Management V25.10

For instructions, refer to Installing Oracle Utilities Digital Asset Management V25.10.

Upgrading Oracle Utilities Operational Device Management to Oracle Utilities Digital Asset Management V25.10

This section assumes that only Oracle Utilities Operational Device Management exists on top of Oracle Utilities Application Framework.

Perform the following to upgrade Oracle Utilities Operational Device Management to Oracle Utilities Digital Asset Management.

Upgrading Oracle Utilities Application Framework

For instructions, refer to Installing Oracle Utilities Application Framework.

To upgrade, use the following command:

Unix:

ksh ./install.sh -u

Windows:

install.cmd -u

Note: The upgrade install does not clean files of libraries that were removed from the latest version.

Installing Oracle Utilities Customer Care and Billing V25.10

For instructions, refer to Installing Oracle Utilities Customer Care and Billing V25.10.

Installing Oracle Utilities Meter Data Management V25.10

For instructions, refer to Installing Oracle Utilities Meter Data Management V25.10.

Upgrading Oracle Utilities Operational Device Management V25.10For instructions, refer to Installing Oracle Utilities Operational Device Management V25.10.

Installing Oracle Utilities Digital Asset Management V25.10

For instructions, refer to Installing Oracle Utilities Digital Asset Management V25.10.

Upgrading Oracle Utilities Digital Asset Management to Oracle Utilities Digital Asset Management V25.10

This section assumes that only Oracle Utilities Digital Asset Management exists on top of Oracle Utilities Application Framework.

Perform the following to upgrade Oracle Utilities Digital Asset Management to Oracle Utilities Digital Asset Management V25.10.

Upgrading Oracle Utilities Application Framework

For instructions, refer to Installing Oracle Utilities Application Framework.

To upgrade, use the following command:

Unix:

ksh ./install.sh -u

Windows:

install.cmd -u

Note: The upgrade install does not clean files of libraries that were removed from the latest version.

Upgrading Oracle Utilities Customer Care and Billing V25.10

For instructions, refer to Installing Oracle Utilities Customer Care and Billing V25.10.

Upgrading Oracle Utilities Meter Data Management V25.10

For instructions, refer to Installing Oracle Utilities Meter Data Management V25.10.

Upgrading Oracle Utilities Operational Device Management V25.10For instructions, refer to Installing Oracle Utilities Operational Device Management V25.10.

Upgrading Oracle Utilities Digital Asset Management V25.10

For instructions, refer to Installing Oracle Utilities Digital Asset Management V25.10.

Creating WebLogic Domain

With Oracle Utilities Application Framework V25.10 a WebLogic native installation is required. Refer to the *Oracle WebLogic Configuration Guide for Oracle Utilities Application Framework (Doc ID 2413918.1)* document on My Oracle Support for more information.

Post-Upgrade Verifications

After you complete the upgrade, verify the following:

- 1. Verify installation logs created under decompressed installer location for any errors.
- 2. Confirm that the installation logs do not contain any errors.
- 3. Confirm that all the configurations are correct.

Refer to the Installation and Configuration Worksheets section in Planning the Installation for more details.

- 4. Confirm that the database is ready.
- 5. Generate the Application Viewer.
- 6. Start the application server.

At this point, the installation is complete.

Refer to the 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 about installing patches, refer to **Document ID 974985.1** on My Oracle Support.

Service packs and patches can be downloaded from on My Oracle Support.

<u>Appendix A</u>

Application Framework Prerequisite Patches

The following Oracle Utilities Application Framework prerequisite patches should be installed in this Oracle Utilities Digital Asset Management release:

- C2M-V25.10-FW-PREREQ-MultiPlatform.zip
- C2M-V25.10-FW-Database-PREREQ-MultiPlatform.zip

Appendix B

Oracle Utilities Digital Asset Management Fixes

For a list of Oracle Utilities Customer Care and Billing, Oracle Utilities Meter Data Management, Oracle Utilities Work and Asset Management, and Oracle Utilities Customer to Meter product fixes included in this release, please refer to the *Oracle Utilities Digital Asset Management Release Notes*.

The complete Oracle Utilities Digital Asset Management documentation is available on Oracle Help Center.

Appendix C

Post-release Patches

This Oracle Utilities Digital Asset Management release includes the following post-release patches:

- CCB-V25.10-Rollup-MultiPlatform.zip
- CCB-V25.10-Database-Rollup-MultiPlatform.zip