Oracle® Fusion Middleware

Licensing Information

E56762-01

September 2014

Program Documentation, under the terms of your Oracle licensing agreement, which is intended to help you understand the features, functionality, and options available for Oracle Programs and the licenses required to use them.

ORACLE®

Oracle Fusion Middleware Licensing Information

E56762-01

Contents

1 Oracle Fusion Middleware

2 Application Server Products

8   Oracle Tuxedo Licensing

9   Oracle Business Intelligence

10   Oracle WebCenter

11   Oracle Identity and Access Management Independent License Offerings

12   Oracle Application Specific Technology Products

13   Base Oracle Enterprise Manager Cloud Control Functionality

A   WebLogic Server Basic

B   Oracle Access Manager Basic

C   Oracle Entitlements Server Basic

D   Oracle WebLogic Management Framework

Preface

This document, which is part of the Program Documentation under the terms of your Oracle licensing agreement, is intended to help you understand the features, functionality, and options available for Oracle Programs and the licenses required to use them. Oracle offers a variety of licensing options that determine your rights to run the Oracle Programs. Restricted use products identified in this document that are not provided with the particular Program you have licensed from Oracle may be obtained from www.edelivery.oracle.com or from media provided by Oracle. If you have a question about your licensing needs, please contact your Oracle sales representative, contact the License Management Services representative listed at this URL:

http://www.oracle.com/us/corporate/license-management-services/index.html

or refer to the resources listed in "Related Documents" for more information."

Oracle Fusion Middleware is available in multiple editions, each suitable for different development and deployment scenarios. Oracle also offers several application server options and packs that enhance the capabilities of Oracle Fusion Middleware for specific application requirements. *Oracle Fusion Middleware Licensing Information* provides information on these optional application server products and their licensing requirements.

This Preface contains these topics:

- Intended Audience
- Documentation Accessibility
- Related Documents
- Conventions

Intended Audience

This book is intended for all purchasers of Oracle Fusion Middleware.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Documents

For more information, see these Oracle resources:

- *Oracle Fusion Middleware Concepts* for information on the features new to this release of Oracle Fusion Middleware

- *Software Investment Guide* for information about Oracle's pricing and licensing policies, available at:

    http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.html

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.

1

Oracle Fusion Middleware

This licensing information is for the product or product family release level available from Oracle as of the publication date; individual components or products in the product or product family may be at different release levels. As applicable, review the user interface or media of the component or product you are using to determine its specific release level.

2

Application Server Products

This chapter describes the application server product family, and the features available with this product family. It contains the following sections:

- Section 2.1, "Oracle TopLink and Application Development Framework"
- Section 2.2, "Oracle WebLogic Server"
- Section 2.3, "Oracle Internet Application Server"
- Section 2.4, "Oracle GlassFish Server"
- Section 2.5, "Oracle Web Tier"
- Section 2.6, "Oracle Coherence"
- Section 2.7, "Oracle BPEL Process Manager"
- Section 2.8, "Oracle WebLogic Integration"
- Section 2.9, "Oracle Service Registry"
- Section 2.10, "Oracle Enterprise Repository"
- Section 2.11, "Oracle SOA Suite for Non Oracle Middleware"
- Section 2.14, "Oracle Managed File Transfer"
- Section 2.12, "Oracle Unified Business Process Management Suite for Non Oracle Middleware"
- Section 2.13, "Oracle Business Process Management Standard Edition"
- Section 2.15, "Oracle Event Processing"
- Section 2.16, "Oracle Mobile Suite"
- Section 2.17, "Oracle Mobile Application Framework,"
- Section 2.18, "Oracle Forms and Reports"
- Section 2.19, "WebLogic Server Management Pack Enterprise Edition"

2.1 Oracle TopLink and Application Development Framework

Oracle TopLink and Application Development Framework can be separately licensed, independently of any Oracle WebLogic Server or Oracle Internet Application Server edition. For details on other supported servers for your product version please refer to the Oracle Fusion Middleware Supported System Configurations page at http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html.

The license for Oracle TopLink and Application Development Framework includes:

- Oracle TopLink

- Application Development Framework

- Oracle MapViewer

- Oracle Entitlements Server Basic

Note: The developer tools used with the Application Development Framework—for example, Oracle JDeveloper—are freely available for download from the Developer Tools page at `http://www.oracle.com/technetwork/developer-tools/index.html`.

2.1.1 Oracle MapViewer

Oracle MapViewer provides API, and libraries for developing and running interactive geospatial web mapping applications. It is optimized for use with geospatial content in an Oracle Spatial database. It includes an EAR that must be deployed in a Java EE server and client libraries for Java and JavaScript based development.

Oracle MapViewer is included in Oracle TopLink and Application Development Framework and in all editions of Oracle Internet Application Server and Oracle Weblogic Server via the inclusion of Oracle Toplink and Application Development Framework.

2.1.2 Mobility Support in Application Development Framework

Application Development Framework (ADF) enables enterprise applications to support delivery to multiple screens, including desktop browsers, but also mobile browser and native mobile applications.

Mobile ADF includes three technology paths, and each is covered under the Oracle TopLink and Application Development Framework license.

- ADF Faces Rich Client Components. This includes a comprehensive set of components which can be used to develop desktop browser and tablet browser applications.

- ADF Mobile Browser. This includes components that are optimized for mobile phone browsers.

- ADF Mobile. This includes a framework and runtime for developing hybrid mobile applications which install onto the mobile devices. Note, with the resulting application the Oracle TopLink and Application Development Framework licensing terms still apply. Furthermore, all hardware and software pre-requisites for developing ADF Mobile applications, as outlined in the Mobile Developer Guide for Oracle Application Development Framework, must be met. Third party mobile SDKs must be provisioned separately, and Oracle does not assist in obtaining nor compensate for these third party mobile SDKs.

2.2 Oracle WebLogic Server

Oracle WebLogic Server is available in three editions with different functional capabilities, each suitable for different kinds of applications and different development and deployment scenarios. Oracle also offers several application server options, packs,

and other products that enhance the capabilities of Oracle WebLogic Server for specific purposes. This section describes the licensing editions of Oracle WebLogic Server.

Table 2–1 introduces the Oracle WebLogic Server licensing options.

Table 2–1   Oracle WebLogic Server Licensing Editions

Licensing Edition	High Level Functionality	Features Included
Standard Edition	The WebLogic Server Standard Edition includes: ■ Core WebLogic application server, with Administration Console, Configuration Wizard, and Upgrade Framework ■ Oracle TopLink and Application Development Framework (includes MapViewer, for details see Oracle TopLink and Application Development Framework) ■ Oracle JDeveloper ■ Oracle Enterprise Pack for Eclipse ■ Oracle Security Developer Tools ■ Java SE. For details on Java SE Editions, see http://www.oracle.com/technetwork/java/javase/terms/products/index.html. ■ Oracle Web Tier ■ Oracle Enterprise Manager Fusion Middleware Control[1]	Includes: ■ Java EE ■ High performance JMS messaging ■ HTTP Pub-Sub Server ■ WebLogic JDBC Drivers, WebLogic Server Clients, and WebLogic and Apache Web Server Plug-Ins ■ Oracle WebLogic Management Framework (included through Oracle Web Tier)
Enterprise Edition	Includes all of the Standard Edition functionality, plus: ■ Clustering support ■ Oracle Virtual Assembly Builder ■ Oracle Java SE Advanced (restricted for WebLogic Server. Java SE is included for client applications that access these server components). ■ Oracle WebLogic Software Kit for Oracle Database Appliance	All Standard Edition features, plus: ■ Whole-server migration and service migration ■ Oracle Virtual Assembly Builder (OVAB) enables rapid configuration and provisioning of multi-tier application topologies onto virtualized and cloud environments.

Table 2–1 (Cont.) Oracle WebLogic Server Licensing Editions

Licensing Edition	High Level Functionality	Features Included
WebLogic Suite	Includes all of the Enterprise Edition functionality, plus: ■ Oracle Coherence Enterprise Edition ■ Oracle Forms, Reports, Portal and Discoverer ■ Oracle Enterprise Manager Pack for Oracle Coherence ■ Oracle Java SE Suite (restricted for WebLogic Server, Oracle Containers for J2EE and Coherence. Java SE is included for client applications that access these server components)	All Enterprise Edition features, plus: ■ Application data management provided by Oracle Coherence Enterprise Edition. Includes: fault-tolerant data caching, data management, write-behind, transactions, analytics and events. For license details, see Section 2.6, "Oracle Coherence." ■ High performance, low latency JDK with deterministic garbage collection for Java EE applications running on WebLogic Server with JRockit Real Time. JRockit Real Time is included in Java SE Suite. For details on Java SE Editions, see http://www.oracle.com/technetwork/java/javase/terms/products/index.html. ■ Management tooling for monitoring, administering, and provisioning Oracle Coherence with Oracle Enterprise Manager Management Pack for Oracle Coherence. For complete license details, see the Oracle Enterprise Manager Licensing Information document available at http://www.oracle.com/technetwork/oem/grid-control/documentation/index.html. Also includes Oracle Internet Application Server Enterprise Edition, which contains: ■ Oracle Internet Directory ■ Oracle Single Sign-On ■ Oracle Discoverer ■ Oracle Reports Services ■ Oracle Forms Services ■ Oracle WebLogic Server ■ Oracle Containers for J2EE ■ Oracle Portal ■ Oracle Web Cache ■ Oracle Directory Integration Platform For license details about Oracle Internet Application Server Enterprise Edition, see Section 2.3, "Oracle Internet Application Server."

---

[1] This is the stand alone Oracle Enterprise Manager Fusion Middleware Control 12c console for a single domain and not Oracle Enterprise Manager Cloud Control 12c which is Oracle's comprehensive multi-domain WLS management solution. See Section 2.19, "WebLogic Server Management Pack Enterprise Edition" for details in regards to multi-domain management through Oracle Enterprise Manager Cloud Control 12c.

2.2.1 Installation of Oracle WebLogic Product Editions

Oracle WebLogic Server does not provide installation programs that correspond directly to each available edition. For example, depending on the edition licensed, you may need to run one or more of the following individual installers:

■ Oracle WebLogic Server

■ Oracle Web Tier

■ Oracle Coherence

- Oracle JRockit

- Oracle JDeveloper

- Oracle TopLink

- Oracle Business Intelligence

- SOA Suite for Oracle Middleware

- Oracle Virtual Assembly Builder

In addition, many installers contain multiple components that may be installed all together or individually, and each installation component has a minimum license requirement. The following table identifies the minimum edition requirements for each installation option available from the Oracle WebLogic Server installation programs.

Table 2–2   Installation Programs Required for WebLogic Product Editions

Licensing Edition	Corresponding Installation Programs
Standard Edition	Standard Edition encompasses the following installation programs: - WebLogic Server net or package installer, and Apache plug-ins (optional). This installer includes the core JEE 5 application server, Administration Console, Configuration Wizard and Upgrade Framework, WebLogic and third-party JDBC drivers, JMS, WebLogic Server clients, Web server plug-ins, and Xquery Support, WebLogic Server examples, Oracle Enterprise Pack for Eclipse, WebLogic SIP Server[1], and Sun or Oracle JRockit JDKs (depending on platform). - Oracle JDeveloper installer - Oracle TopLink installer - Oracle Web Tier installer
Enterprise Edition	The installation programs for Enterprise Edition include all those for Standard Edition, plus the installers for: - Oracle JRockit Mission Control - Oracle Virtual Assembly Builder (OVAB) **Note:** Adding cluster support does not require an additional installation procedure.
WebLogic Suite	The installation programs for WebLogic Suite include all those for Enterprise Edition, plus: - Oracle Identity Management - Oracle Enterprise Manager Cloud Control 12c (to obtain features of Oracle Enterprise Management Pack for Oracle Coherence) - Oracle Enterprise Manager Pack for Oracle Coherence - Oracle JRockit - Oracle Portal, Forms, Reports and Discoverer

[1] Usage rights to WebLogic SIP Server require a license for Oracle Communications Converged Application Server. For details, see Section 2.2.2.4, "WebLogic SIP Server."

2.2.2 Licensing Considerations for Additional Features

Certain Oracle WebLogic Server editions contain features that have additional licensing considerations.

2.2.2.1 WebLogic for Oracle Internet Application Server

The entitlement for WebLogic Server Basic from Internet Application Server Enterprise Edition is superceded by the unrestricted full use capabilities of WebLogic Server Enterprise Edition included in WebLogic Suite.

> **Note:** When Oracle Internet Application Server is licensed independently of WebLogic Suite, a constrained WebLogic license, called WebLogic Server Basic, is included. However, when Oracle Internet Application Server is licensed as part of WebLogic Suite, an unrestricted license of WebLogic Server Enterprise Edition is included.
>
> This does not imply that two licenses of WebLogic Server Enterprise are provided within WebLogic Suite, but rather that the rights to WebLogic Server included in Internet Application Server are expanded to the unrestricted use of WebLogic Server Enterprise Edition included in WebLogic Suite.

2.2.2.2 Management Features

Note the following license considerations for management features:

- Oracle Enterprise Manager Fusion Middleware Control is included with WebLogic Server Standard Edition, WebLogic Server Enterprise Edition, and WebLogic Suite Edition.[1]

- Unrestricted use of the WebLogic Server Administration Console, the WebLogic Scripting Tool, and WebLogic JMX is available in all WebLogic Server editions.

- WebLogic Server Standard Edition, WebLogic Server Enterprise Edition, and WebLogic Suite work with Oracle Enterprise Manager Cloud Control, which is Oracle's integrated enterprise information technology (IT) management product line providing the industry's only complete, integrated, and business-driven enterprise cloud management solution.[2]

2.2.2.3 High Availability Features

Oracle WebLogic Server provides several features and tools to support the deployment of highly available and scalable applications, including the following:

- WebLogic Server clusters, which provide scalability and reliability for your applications by distributing the work load among multiple instances of WebLogic Server.

- Work Managers, which prioritize work based on rules you define and by monitoring actual run time performance statistics. Work Managers can be used to provide overload protection, such as detecting, avoiding, and recovering from

---

[1] This is the stand alone Oracle Fusion Middleware Control console for a single domain and not Oracle Enterprise Manager Cloud Control which is Oracle's comprehensive multi-domain WLS management solution. See Section 2.19, "WebLogic Server Management Pack Enterprise Edition" for details in regards to multi-domain management through Oracle Enterprise Manager Cloud Control.

[2] Licensed through WebLogic Server Management Pack Enterprise Edition.

excess workload. They may be applied globally to a WebLogic Server domain or to a specific application or component.

- WebLogic Server persistent store, which is a built-in, high-performance storage solution for WebLogic Server subsystems and services that require persistence. For example, it can store persistent JMS messages or temporarily store messages sent using the Store-and-Forward feature. The persistent store supports persistence to a file-based store or to a JDBC-enabled database.

- Network channels, which facilitate the effective use of network resources by segregating network traffic into channels based on the type of traffic.

- Store-and-forward services, which enable WebLogic Server to deliver messages reliably between applications that are distributed across WebLogic Server instances. If the message destination is not available at the moment the messages are sent, either because of network problems or system failures, then the messages are saved on a local server instance and are forwarded to the remote destination once it becomes available.

- Oracle Database Real Application Cluster (RAC) integration, which is provided by WebLogic Server via multi data sources, a collection of data sources representing each node in an Oracle Database RAC treated logically as one data source by the application layer, and GridLink data sources, an integration with Oracle Database RAC that requires only one data source per Oracle Database RAC within WebLogic Server.

  A multi data source is an abstraction around a group of data sources that provides load balancing or failover processing at the time of connection requests, between the data sources associated with the multi data source.

Some WebLogic Server high availability features require special licensing considerations, which are described in the following sections.

2.2.2.3.1 WebLogic Server Standard Edition A Standard Edition license provides unlimited access to most high availability features in WebLogic Server, with the exception of Cluster Support. With a Standard Edition license, no restrictions are placed on the following[3]:

- The number of Managed Server instances that may be configured in a WebLogic domain

- Use of the Apache HTTP Server Plug-In to perform load balancing among non-clustered Managed Server instances using the `WebLogicCluster` plug-in configuration parameter

2.2.2.3.2 Cluster Support Cluster Support is provided in all WebLogic Server Enterprise Edition and WebLogic Suite Edition licenses, and includes the following capabilities:

- Application failover

  When an application component becomes unavailable for any reason, a copy of the failed object finishes the job. In case of hardware or other failures, session state is available to other cluster nodes that can resume the work of the failed node.

- Cluster management and administration

---

[3] For Oracle Enterprise Performance Management products, Oracle WebLogic Server Standard Edition additionally supports the non-runtime usage of clustering for functional/organizational grouping of managed servers. No other clustering features as defined in Section 2.2.2.3.2, "Cluster Support" are supported.

Creating a cluster of Managed Servers enables management and administration of these clustered servers as a single entity. Cluster management and administration features are provided for configuration, application deployment, and monitoring purposes.

- Automatic and manual migration of a clustered server instance from one computer to another using Server Migration

  Using Service Migration, the uninterrupted availability of singleton services — services that must run on only a single server instance at any given time, such as JMS and the JTA transaction recovery system — is ensured when the hosting server instance fails.

- Load balancing

  Incoming requests can be routed to a WebLogic Server instance in the cluster based on the volume of work being processed.

The following types of objects can be clustered in a WebLogic Server deployment:

- Servlets
- Java Server Pages
- Enterprise JavaBeans
- Remote Method Invocation (RMI) objects
- Java Messaging Service (JMS) destinations. Note:
  - A connection factory and a destination can be targeted to different WebLogic Server instances.
  - Foreign servers and distributed destinations may be used across multiple WebLogic Server instances.

2.2.2.3.3 High Availability Considerations for Oracle WebLogic Server Middle-Tier Instances

There are several ways that you can make WebLogic Server instances highly available. Each of these high availability models has specific licensing implications. These considerations are similar to the licensing considerations for the high availability features of the Oracle Database.

- **Backup:** In this type of recovery, WebLogic Server data/files of the primary server are stored on storage devices, such as tape media, and customers are **not** required to purchase additional licenses.

- **Failover (also known as Active/Passive or Cold Failover Cluster):** In this type of recovery, WebLogic Server nodes are configured in an *Active/Passive Cluster*; the first installed node acts as a primary node. If the primary node fails, one of the nodes in the cluster acts as the primary node. In this type of environment Oracle permits licensed Oracle WebLogic Server customers to run the WebLogic Server on an unlicensed spare computer for up to a total of ten separate days in any given calendar year. Any other use requires the environment to be fully licensed. Additionally, the same metric (that is, processor-based, or named user based) must be used when licensing the WebLogic Server in a failover environment.

- **Remote Mirroring:** This method involves copying the WebLogic Server software to the secondary site and copying the changes in the primary WebLogic Server configuration and data to the secondary site. This can be accomplished through techniques such as storage based remote mirroring or host based mirroring. In the event of a failure at the primary site, the Oracle WebLogic Server on the secondary site is run using the remote storage. In this environment, Oracle WebLogic Server must be fully licensed at the primary site, and if it is ever installed and/or run at

the secondary site, it must also be fully licensed there. Additionally, the same metric (that is, processor-based, or named user based) must be used to license both WebLogic Server domains.

2.2.2.3.4 Database Integration WebLogic Server JDBC multi data sources, also known as GridLink for RAC, are available in WebLogic Server Standard Edition, WebLogic Server Enterprise Edition, and WebLogic Suite.

Use of WebLogic Server GridLink data sources, known as Active GridLink for RAC, is an entitlement available only as part of licensing WebLogic Suite or Exalogic Elastic Cloud Software.

Table 2–3 lists and describes the license restricted Oracle WebLogic Server GridLink data source XML configuration elements.

Table 2–3   GridLink Data Source (Active GridLink for RAC) Configuration Detail

Data Source Configuration	Description
`<fan-enabled>`	Enables Fast Application Notification (FAN) event awareness of WebLogic Server
`<ons-node-list>`	Identifies list of Oracle Notification Service (ONS) nodes
`<ons-wallet-file>`	Identifies file defining SSL keys for ONS

For more information about configuring GridLink data sources within WebLogic Server, see "Using GridLink Data Sources" in *Configuring and Managing JDBC Data Sources for Oracle WebLogic Server*.

2.2.2.3.5 Oracle WebLogic Software Kit for Oracle Database Appliance Oracle WebLogic Software Kit (the "Kit") for Oracle Database Appliance includes a restricted use of Oracle Traffic Director with WebLogic Server and integration software for WebLogic Server, both specific for Oracle Database Appliance (ODA).

The Oracle WebLogic Software Kit (the "Kit") for Oracle Database Appliance is limited to use with Oracle Database Appliance. The Oracle Traffic Director portion of the Kit is limited to High Availability Virtual IP, Access Manager WebGate, Origin server load balancing to WebLogic Server, and content caching on Oracle Database Appliance.

2.2.2.4 WebLogic SIP Server

WebLogic SIP Server is included in all editions of Oracle WebLogic Server; however, you must license Oracle Communications Converged Application Server (OCCAS) in order to have usage rights to SIP Server.

2.2.2.5 Apache Derby

Apache Derby is an all-Java open source RDBMS that is included in the WebLogic Server distribution solely in support of WebLogic Server evaluation, either in the form of custom trial applications or through packaged sample applications provided with WebLogic Server. Use of Derby is subject to the terms of the Apache License, Version 2.0, available at the following URL:

http://www.apache.org/licenses/

2.2.2.6 Java SE

Note the following Java SE considerations. For full details on Java SE Editions, see http://www.oracle.com/technetwork/java/javase/terms/products/index.html.

2.2.2.6.1 Java SE Java SE includes the Java Development Kit (JDK), the Java Runtime Environment (JRE) and the JRockit JDK.

2.2.2.6.2 Oracle Java SE Advanced Oracle Java SE Advanced includes Java SE plus additional features for mission critical enterprise client and server deployments of Java such as JRockit Mission Control and Flight Recorder.

Oracle Java SE Advanced is included in WebLogic Server Enterprise Edition. Oracle Java SE and all components associated with it are restricted for use with WebLogic Server. Java SE is included with WebLogic Server Enterprise Edition for the sole purpose of enabling client applications to access WebLogic Server Enterprise Edition components.

2.2.2.6.3 Oracle Java SE Suite Oracle Java SE Suite includes Oracle Java SE Advanced plus additional features for soft real-time and virtualization such as JRockit Real Time.

Oracle Java SE Suite is included in WebLogic Suite. Oracle Java SE and all components associated with it are restricted for use with WebLogic Server, Oracle Containers for J2EE and Coherence. Java SE is included with WebLogic Suite for the sole purpose of enabling client applications to access WebLogic Suite components.

2.2.2.7 Standalone WebLogic Clients

The licenses for WebLogic Server Standard Edition, WebLogic Server Enterprise Edition, and WebLogic Suite Edition provide unrestricted use of the client JAR files bundled with WebLogic Server for creating standalone clients that access applications hosted on WebLogic Server.

The client JARs and other resources provided in Oracle WebLogic Server for creating standalone clients, and the key features they support, are listed in Table 2–4:

Table 2–4   Client JAR files and Other Resources Provided for Standalone Clients

Client Type	Bundled Resources	Key Features
WebLogic Full Client (T3)	`wlfullclient.jar`	Supports the following: ■ Most Java EE and WebLogic-specific features ■ Clustering, SSL ■ JMS and JMS SAF clients
WebLogic Thin Client (T3)	`wlthint3client.jar`	Supports the following: ■ Oracle WebLogic's T3 protocol for Remote Method Invocation (RMI), including RMI over HTTP ■ Access to JMX, JNDI, and EJB resources available in WebLogic Server ■ Transaction initiation and termination using JTA ■ WebLogic client JMS features ■ Client-side clustering ■ JAAS authentication and JSSE SSL

Table 2–4   (Cont.) Client JAR files and Other Resources Provided for Standalone Clients

Client Type	Bundled Resources	Key Features
WebLogic-IIOP	`wlfullclient.jar`	■ Supports most WebLogic-specific features ■ Supports clustering, SSL ■ Faster and more scalable than IIOP thin clients ■ Not ORB-based ■ Does not support WebLogic Server JMS
Java EE Application Client (Thin Client)	`wlclient.jar`	■ Clustering, SSL, many Java EE features, including security and transactions ■ Uses CORBA 2.4 ORB

JMS Thin Client	`wljmsclient.jar`
	
	`wlclient.jar`
		■ Thin client functionality
		■ WebLogic JMS, except for client-side XML selection for multicast sessions and JMSHelper class methods
		■ SSL

JMS SAF Client — for using store-and-forward services	`wlsafclient.jar`
	`wljmsclient.jar`
	`wlclient.jar`
		■ Locally stores messages on the client and forwards them to server-side JMS destinations when the client is connected
		■ Supports SSL

JMS C Client	`wlfullclient.jar` or
	`wljmsclient.jar`
	`wlclient.jar`
		■ C client applications that can access WebLogic JMS applications and resources
		■ Supports SSL

JMS .NET Client	`WebLogic.Messaging.dll` dynamic library	Microsoft .NET client applications, written in C# that can access WebLogic JMS applications and resources
JMX Client	`wljmxclient.jar`	Accesses WebLogic Server MBeans
Web Services Client	`wseeclient.jar`	Invokes Web Service

2.2.2.8 Other WebLogic Server Clients

The licenses for WebLogic Server Standard Edition, WebLogic Server Enterprise Edition, and WebLogic Suite provide unrestricted use of the clients listed and described in Table 2–5 for the licensed WebLogic Server installation.

Table 2–5   Other Clients Not Restricted for Use with the Licensed WebLogic Server

Client Type	Key Features
WebLogic Scripting Tool (WLST)	Client for configuring WebLogic Server instances
Web server plug-ins for WebLogic Server	Client for Apache HTTP Server, Microsoft Internet Information Server, Oracle HTTP Server, and Oracle iPlanet Web Server

2.2.3 Restricted-Use Licensing

The following restricted-use licenses are included with Oracle WebLogic Server in the editions and products indicated.

2.2.3.1 Oracle Database License Requirements

WebLogic Suite includes Oracle Internet Application Server Enterprise Edition, which includes a restricted-use license of the Oracle Database. See Section 2.3.3, "Restricted-Use Licensing" for details.

2.2.3.2 Oracle Internet Application Server Requirements

See Section 2.3.3, "Restricted-Use Licensing," for details about restricted-use licenses included with WebLogic Suite Edition.

2.2.3.3 Oracle JDeveloper License Requirements

Oracle JDeveloper bundles UDDI client libraries from the HP SOA Systinet Registry. Such libraries and UDDI client functionality are licensed only to the end user for the purpose of connecting to and communicating with the Oracle Service Registry.

2.2.3.4 Oracle Java SE Advanced and Oracle Java SE Suite

WebLogic Server EE includes a restricted use license for Oracle Java SE Advanced . Oracle Java SE and all components associated with it are restricted for use with WebLogic Server. Java SE is included with WebLogic Server Enterprise Edition for the purpose of enabling client applications to access WebLogic Server Enterprise Edition components.

WebLogic Suite includes a restricted use license for Oracle Java SE Suite. Oracle Java SE and all components associated with it are restricted for use with WebLogic Server, Oracle Containers for J2EE and Coherence. Java SE is included with WebLogic Suite for the sole purpose of enabling client applications to access WebLogic Suite components.

For details on Java SE Editions, see
http://www.oracle.com/technetwork/java/javase/terms/products/index.html.

2.2.4 Oracle WebLogic Server Optimizations for Exalogic Elastic Cloud Software

The following sections describe the Oracle Weblogic Server optimizations for Exalogic Elastic Cloud software:

- Section 2.2.4.1, "Input/ Output and Work Manager Optimizations for Exalogic Elastic Cloud Software"

- Section 2.2.4.2, "JDBC and Data Source Optimizations for Exalogic Elastic Cloud Software"

- Section 2.2.4.3, "Cluster State Replication Optimizations for Exalogic Elastic Cloud Software"

- Section 2.2.4.4, "Socket Direct Protocol for Exalogic Elastic Cloud Software"

- Section 2.2.4.5, "Server and Service Migration Performance Optimizations for Exalogic Elastic Cloud Software"

- Section 2.2.4.6, "Java Server Page Factory Caching Optimizations for Exalogic Elastic Cloud Software"

- Section 2.2.4.7, "Oracle HTTP Client Optimizations for Exalogic Elastic Cloud Software"

2.2.4.1 Input/ Output and Work Manager Optimizations for Exalogic Elastic Cloud Software

Exalogic Elastic Cloud Software can be configured with input/output and Work Manager optimizations for WebLogic Server Table 2–6 lists and describes the MBean attributes for configuring WebLogic Server with these options that are restricted to Exalogic Elastic Cloud Software licenses.

Table 2–6   Exalogic Elastic Cloud Software Configuration Enabled in WebLogic Server

MBean Attribute[1]	Description
`KernelMBean.ScatteredReadsEnabled=true`	Increases efficiency during I/O in environments with high network throughput.
`KernelMBean.GatheredWritesEnabled=true`	Increases efficiency during I/O in environments with high network throughput.
`KernelMBean.AddWorkManagerThreadsByCpuCount`	Increases efficiency of the self-tuning thread pool by aligning it with the Exalogic processor architecture threading capabilities
`ServerMBean.useConcurrentQueueForRequestManager=true`	Lockless request manager enables higher concurrency and efficiency in processing on Exalogic systems, especially for JMS use cases.

[1]   For more information about these MBeans, see the Oracle WebLogic Server MBean Reference.

2.2.4.2 JDBC and Data Source Optimizations for Exalogic Elastic Cloud Software

Exalogic Elastic Cloud Software can be configured with optimized JDBC connections and improved Oracle Database Real Application Cluster connectivity within WebLogic Server. Table 2–7 lists and describes the Oracle JDBC features that are restricted to Exalogic Elastic Cloud Software licenses. Note, as stated in Section 2.2.4.4, "Socket Direct Protocol for Exalogic Elastic Cloud Software," that WebLogic Server data sources using a JDBC connection string with the protocol portion being set to SDP (`PROTOCOL=SDP`) are restricted to Exalogic Elastic Cloud Software.

Table 2–7   Exalogic Elastic Cloud Software Oracle JDBC Options

Option	Description
`oracle.jdbc.enableJavaNetFastPath`	Enables the Oracle JDBC driver to reduce data copies and fragmentation.

Exalogic Elastic Cloud Software includes the right to WebLogic Server GridLink data sources, known as Active GridLink for RAC. The definitions of the XML configuration elements available in GridLink data sources for the Exalogic Elastic Cloud Software entitlement are described in Section 2.2.2.3.4, "Database Integration."

2.2.4.3 Cluster State Replication Optimizations for Exalogic Elastic Cloud Software

Exalogic Elastic Cloud Software can be configured for optimized state replication with WebLogic Server. Specifically one-way RMI for state replication and multi-channel replication are restricted to Exalogic Elastic Cloud Software.

For information about configuring these cluster state replication optimizations, see "Enabling Cluster-Level Session Replication Enhancements" in *Oracle Fusion Middleware Exalogic Enterprise Deployment Guide*.

Table 2–8 lists and describes the WebLogic Server cluster state replication MBeans that are restricted to Exalogic Elastic Cloud.

Table 2–8   Exalogic Elastic Cloud Software MBeans for State Replication

MBean	Description
`ServerMBean.setReplicationPorts(String ports)`	Enables the configuration of multiple replication channels per server within a WebLogic Server cluster.
`ClusterMBean.setOneWayRmiForReplicationEnabled(boolean enable)`	Enables state replication to be set directionally to one-way only
`ClusterMBean.setSessionLazyDeserializationEnabled(boolean enable)`	Increases efficiency with session replication.

2.2.4.4 Socket Direct Protocol for Exalogic Elastic Cloud Software

Exalogic Elastic Cloud can be configured to utilize socket direct protocol (SDP) as a high performance protocol for WebLogic Network Channels and JDBC connectivity.

WebLogic Server data sources using a JDBC connection string with the SDP protocol (for example, (`PROTOCOL=SDP`)) are restricted to Exalogic Elastic Cloud Software. For information about configuring SDP based WebLogic Server data sources see "Enable Socket Direct Protocol for a Grid Link Data Source" in *Configuring and Managing JDBC Data Sources for Oracle WebLogic Server*.

Table 3-4 lists and describes Oracle WebLogic Server SDP features that are restricted to Exalogic Elastic Cloud Software licenses.

Table 2–9   Exalogic Elastic Cloud Software WebLogic MBean Configuration Options

MBean Attribute	Description
`NetworkAccessPointMBean.SDPEnabled`	Specifies whether the network channel supports the socket direct protocol.

For more information about the `NetworkAccessPointMBean.SDPEnabled` attribute, see the *Oracle WebLogic Server MBean Reference*.

2.2.4.5 Server and Service Migration Performance Optimizations for Exalogic Elastic Cloud Software

Exalogic Elastic Cloud Software can be configured with WebLogic Server to enable more rapid failure detection and failover for migration of pinned services such as JMS and JTA Transaction Recovery Services, or migration of migratable servers hosting such services.

Table 2–10 lists and describes the WebLogic Server cluster MBeans that are restricted to Exalogic Elastic Cloud.

Table 2–10   Exalogic Elastic Cloud Software WebLogic MBean Configuration Options

MBean	Description
`ClusterMBean.memberDeathDetectorEnabled=true`	Enables faster detection of failed singleton services to improve server and service migration performance.

2.2.4.6 Java Server Page Factory Caching Optimizations for Exalogic Elastic Cloud Software

Exalogic Elastic Cloud Software can be configured with WebLogic Server to use JSP factory caching and improve scalability of Web applications built on the JSP Servlet engine (OJSP) utilized by Fusion Middleware products and Fusion Middleware applications running on WebLogic Server.

These optimizations are enabled when Exalogic domain-level enhancements are enabled as described in "Enabling Exalogic-Specific Enhancements in Oracle WebLogic Server 11g Release 1". They can also be controlled by enabling the init parameter `jsp_factory_caching` (default `false`).

2.2.4.7 Oracle HTTP Client Optimizations for Exalogic Elastic Cloud Software

Exalogic Elastic Cloud Software can be configured with WebLogic Server to optimize Oracle HTTP client connection management to improve performance of Web applications built with Fusion Middleware products running on WebLogic Server.

These optimizations are enabled when Exalogic domain-level enhancements are enabled as described in "Enabling Exalogic-Specific Enhancements in Oracle WebLogic Server 11g Release 1."

2.3 Oracle Internet Application Server

Oracle Internet Application Server is available in three editions with different functional capabilities, each suitable for different kinds of applications and different development and deployment scenarios. Oracle also offers several application server options, packs, and other products that enhance the capabilities of Oracle Internet Application Server for specific purposes. This section describes the licensing editions of Oracle Internet Application Server.

> **Note:** All editions of the products Oracle Internet Application Server and Oracle Forms and Reports Server include rights to WebLogic Server Basic. WebLogic Server Basic is only for running components provided within these products such as Forms, Reports, Discoverer and Portal. It can also be used for custom Java applications such as those developed for Oracle Containers for J2EE. Products outside of Oracle Internet Application Server and Oracle Forms and Reports that have licensing dependencies on any edition of Oracle Internet Application Server or Oracle Forms and Reports do not have the right to run those products on WebLogic Server Basic unless stated specifically within their licensing documentation. For complete details about WebLogic Server Basic, see Appendix A, "WebLogic Server Basic."

Table 2–11 introduces the Oracle Internet Application Server licensing options.

Table 2–11   Oracle Internet Application Server Editions

Licensing Edition	High-Level Functionality	Included Features
Standard Edition	Oracle Internet Application Server Standard Edition includes: ■ Oracle HTTP Server ■ Oracle TopLink and Application Development Framework (includes MapViewer, for details see Oracle TopLink and Application Development Framework) ■ Oracle Portal ■ Oracle Web Cache ■ Java SE. For details on Java SE Editions, see http://www.oracle.com/technetwork/java/javase/terms/products/index.html. ■ WebLogic Server Basic (see Appendix A) **Note:** In Oracle Fusion Middleware 10*g* Release 2 and Release 3, Oracle Internet Application Server includes the licensing rights to Oracle Containers for J2EE (OC4J) as the J2EE container. In future releases of Oracle Fusion Middleware, customers of Oracle Internet Application Server continue to have rights to the OC4J 10g Release 2 and Release 3 (the terminal release of OC4J). Oracle Internet Application Server also includes the Oracle Security Developer Tools. Oracle Internet Application Server Standard Edition, in addition to the components listed above, also includes the following: ■ Oracle Internet Directory ■ Oracle Single Sign-On ■ Oracle Directory Services Manager **Note**: In Oracle Fusion Middleware 10*g* Release 2, Oracle Internet Application Server includes the licensing rights to Oracle Single Sign-On. In Oracle Fusion Middleware 11*g*, customers of Oracle Internet Application Server continue to have rights to Oracle Single Sign-On 10*g* Release 2. In Oracle Fusion Middleware 11*g*, customers of Oracle Internet Application Server additionally have the rights to Oracle Access Manager Basic as described in Appendix B, "Oracle Access Manager Basic" In Oracle Fusion Middleware 10*g* Release 2, Oracle Internet Application Server Standard Edition includes limited use licenses for Oracle Internet Directory and Oracle Single Sign-On. The full use licenses for these products are available in Oracle Internet Application Server Enterprise Edition, and also in Oracle Identity and Access Management Suite Plus as described in Section 11.13, "Oracle Identity and Access Management Suite Plus".	■ mod_ossl ■ mod_oradav ■ mod_fastcgi ■ mod_rewrite ■ Proxy Plug-In ■ XML Developer Kit ■ Oracle Security Developer Tools ■ Oracle Enterprise Manager Fusion Middleware Control ■ Java Authentication and Authorization Service (JAAS) Provider ■ Data Direct JDBC drivers for Oracle and non-Oracle databases ■ mod_plsql ■ mod_osso ■ mod_perl ■ Perl Interpreter ■ DBI/DBD data access libraries ■ Oracle Content Management SDK ■ Oracle Repository Creation Utility

Table 2–11   (Cont.) Oracle Internet Application Server Editions

Licensing Edition	High-Level Functionality	Included Features
Enterprise Edition	Oracle Internet Application Server Enterprise Edition includes all of the Standard Edition functionality, plus: ■ Oracle Internet Directory ■ Oracle Single Sign-On ■ Oracle Discoverer ■ Oracle Reports Services ■ Oracle Forms Services ■ Oracle Directory Services Manager In addition to the components listed above, Oracle Internet Application Server Enterprise Edition includes the rights to the following components from Oracle Fusion Middleware 10*g* Release 2: ■ Oracle Delegated Administration Services ■ Oracle Directory Integration Platform ■ Oracle Single Sign-On Oracle Internet Application Server Enterprise Edition includes full use licenses for Oracle Internet Directory. **Note:** In Oracle Fusion Middleware 10*g* Release 2, Oracle Internet Application Server includes the licensing rights to Oracle Single Sign-On. In Oracle Fusion Middleware 11*g*, customers of Oracle Internet Application Server continue to have rights to Oracle Single Sign-On 10*g* Release 2. In Oracle Fusion Middleware 11*g*, customers of Oracle Internet Application Server additionally have the rights to Oracle Access Manager Basic as described in Appendix B, "Oracle Access Manager Basic" **Note:** If you license Oracle Internet Application Server Enterprise Edition, some Identity Management and Access Management components will be from earlier releases of Oracle Fusion Middleware 10*g*.	All Standard Edition features, plus: ■ Oracle Identity Management features ■ Business Intelligence features ■ Application Interconnect Toolkit ■ Technology Adapters and Oracle Enterprise Service Bus ■ Oracle B2B See Section 2.3.2.2.2, "Oracle Identity Management," for details about Identity Management features.

2.3.1 Oracle Internet Application Server Editions and Installation Types

When you install Oracle Internet Application Server, you will have the choice of several installation types. Each installation type provides a specific set of components and features.

Oracle Internet Application Server editions do not map directly to these product installation types. It is important to understand how these two concepts relate to each other. Table 2–12 lists the minimum edition requirements for each installation type.

In each case, the minimum edition listed is the edition required to install the installation type. However, the minimum edition may not enable you to use everything included in that installation type. For example, you can install Portal, Forms, Reports and Discoverer from an installation type, but the Standard Edition license does not cover the usage of Oracle Forms, Reports and Discoverer. These restrictions are detailed in Table 2–13.

Table 2–12   Edition Requirements for Installation Types of Oracle Internet Application Server

Installation Type	Oracle Internet Application Server Minimum Edition Required
Web Tier	Standard Edition
WebLogic Server	Standard Edition
JDeveloper	Standard Edition
TopLink	Standard Edition
Oracle Identity Management	Standard Edition
Portal, Forms, Reports and Discoverer	Standard Edition
Integration, Oracle B2B	Enterprise Edition
Repository Creation Utility	Standard Edition

Table 2–13 lists the installation types available with each of the Oracle Internet Application Server editions, along with any exceptions or restrictions associated with each edition-installation pair.

Table 2–13   Installation Types Included with Editions of Oracle Internet Application Server

Edition	Installation Types	Exceptions
Standard Edition	Web Tier WebLogic Server JDeveloper TopLink Portal, Forms, Reports and Discoverer Repository Creation Utility	Upgrade to Enterprise Edition if you need: ■ Portal, Forms, Reports and Discoverer ■ Oracle Single Sign-On ■ Oracle Internet Directory See also Section 2.3.3, "Restricted-Use Licensing."
Enterprise Edition	Web Tier WebLogic Server JDeveloper TopLink Portal, Forms, Reports and Discoverer Integration, Oracle B2B Repository Creation Utility	If you use Discoverer Plus and/or Discoverer Viewer, you need at least one license of Discoverer Administrator, which is included in Oracle Developer Suite. For Integration installations, all packaged application, legacy system, and B2B adapters are licensed separately. See also Section 2.3.3, "Restricted-Use Licensing."

2.3.2 Licensing Considerations for Additional Features

Certain Oracle Application Server features have additional licensing considerations. This section contains the following subsections:

■ Section 2.3.2.1, "Management Features"

■ Section 2.3.2.2, "Security Features"

■ Section 2.3.2.3, "High Availability Features"

- Section 2.3.2.4, "Adapters"

2.3.2.1 Management Features

Note the following license considerations for management features:

- Oracle Enterprise Manager Fusion Middleware Control is included with all editions of Oracle Application Server.

- Oracle Application Server Enterprise Edition can be managed by Oracle Enterprise Manager Cloud Control, which is Oracle's integrated enterprise information technology (IT) management product line providing the industry's only complete, integrated, and business-driven enterprise cloud management solution.

2.3.2.2 Security Features

Oracle Application Server provides a number of features to ensure security between the client and the application server, and between the application server and the database.

2.3.2.2.1 Oracle Advanced Security Oracle Advanced Security ensures that communication over the Oracle SQL*Net Protocol is encrypted and secure. It also provides strong authentication services between the application server and the database. As part of a "secure by default" architecture, Oracle Advanced Security is installed with Oracle Fusion Middleware by default. This ensures that the client components required for secure communication and strong authentication between the application server and an Oracle database are present. However, if you want to configure and use the secure communication and authentication services provided by Oracle Advanced Security, you must also license Oracle Advanced Security with the Oracle database with which the application server communicates.

2.3.2.2.2 Oracle Identity Management The Oracle Identity Management license that is included in Oracle Internet Application Server Enterprise Edition includes the following:

- Oracle Internet Directory

- Oracle Directory Integration Platform

- Oracle Delegated Administration Services

- Oracle Directory Services Manager

- Oracle Single Sign-On

- Oracle Access Manager Basic

  For more information, see Appendix B, "Oracle Access Manager Basic"

A restricted use license for some of the Oracle Identity Management features is included with the application server for specific purposes. For more information, see Section 2.3.3, "Restricted-Use Licensing."

2.3.2.3 High Availability Features

Oracle Internet Application Server has several high availability features that require special licensing considerations. These considerations are similar to the licensing considerations for the high availability features of the Oracle Database. These considerations are described in Section 2.2.2.3.3, "High Availability Considerations for Oracle WebLogic Server Middle-Tier Instances." There are further high availability restrictions for Oracle Internet Application Server based on the limited use license of WebLogic Server Basic, described in Appendix A, "WebLogic Server Basic."

2.3.2.4 Adapters

See Chapter 5, "Oracle Fusion Middleware Adapters" for a description of Fusion Middleware Adapters. Technology adapters are included in all Oracle Internet Application Server editions. Other adapters require separate licensing.

2.3.3 Restricted-Use Licensing

The following restricted-use licenses are included with Oracle Internet Application Server in the editions and products indicated.

2.3.3.1 Standard Edition

- Oracle Single Sign-On is provided only for use with Oracle Portal.

- Oracle Internet Directory is provided for use with Oracle Single Sign-On and with application server components to:

  - Provision, store, and manage users and groups, along with their associated security credentials and privileges

  - Synchronize data with third party directory services

  - Store other component-specific metadata

- Oracle Advanced Security Option is included, with use limited strictly to the Oracle Java SSL Library.

- The Oracle Database (Enterprise Edition) is provided only for use with the Oracle Repository Creation Utility database schema for storing product metadata.

> **Notes:** During installation, you can choose to install the product metadata into an existing, licensed database. Choosing this option has the following licensing implications:
>
> - The restricted use license does not apply to the use of the existing database as the Oracle Repository Creation Utility database schema.
>
> - If the computer on which your existing database is running does not run any other Oracle Application Server installations, there is no Oracle Internet Application Server license requirement for that computer.
>
> - Installing the Oracle Repository Creation Utility database schema into your existing database may increase the number of users accessing that database, and may thus affect your database license needs. You need to make sure that you have the appropriate number of database licenses to ensure compliance.

2.3.3.2 Enterprise Edition

- Oracle Advanced Security Option is included, with use limited strictly to the Oracle Java SSL Library.

- The Oracle Database (Enterprise Edition) is provided only for use with the Oracle Repository Creation Utility database schema for storing product metadata.

> **Notes:** During installation, you can choose to install the Oracle Repository Creation Utility database schema into an existing, licensed database. Choosing this option has the following licensing implications:
>
> - The restricted use license does not apply to the use of the existing database for the Oracle Repository Creation Utility database schema.
>
> - If the computer on which your existing database is running does not run any other Oracle Fusion Middleware installations, there is no Oracle Internet Application Server license requirement for that computer.
>
> - Installing the Oracle Repository Creation Utility database schema into your existing database may increase the number of users accessing that database, and may thus affect your database license needs. You need to make sure that you have the appropriate number of database licenses to ensure compliance.

2.3.3.3 Oracle Database License Requirements: Oracle Internet Application Server (Standard Edition, Enterprise Edition) and WebLogic Suite

Storing any data other than the Oracle Repository Creation Utility database schema in the Oracle Application Server Infrastructure database requires a full use license of the Oracle Database (Standard Edition, Standard Edition One, or Enterprise Edition).

2.3.3.3.1 Full Use License of Oracle Database Standard Edition or Standard Edition One Some examples of the kinds of data that require the purchase of a full use license for the Oracle Database Standard Edition or Standard Edition One include:

- Documents or any other objects stored in the Oracle Database under Oracle Content Management SDK

- Documents or any kind of content stored in the Portal Repository

- Oracle Integration B2B

- Any BPEL Process Manager process instance data, which includes using Oracle Database as the dehydration store

- Any LDAP data related to the use of Oracle Internet Directory as a general purpose LDAP directory

- Any other custom data that is created or updated by an application

2.3.3.3.2 Full Use License of Oracle Database Enterprise Edition Two kinds of data require the purchase of a full use license of the Oracle Database Enterprise Edition:

- Any Oracle Portal that leverages the VPD functionality of the database for hosting

- Any LDAP data related to the use of an Oracle Internet Directory LDAP Directory, and database replication is used

2.3.3.3.3 When is a Full Use License of Oracle Database Not Required? The following scenarios do not require the purchase of a full use license of the Oracle Database when you purchase Oracle Internet Application Server:

- If you are only using Oracle Web Cache

- If you are using Oracle Business Intelligence Discoverer only against a non-Oracle database

- If you are using Oracle Reports Services only against a non-Oracle database

2.4 Oracle GlassFish Server

Oracle GlassFish Server is a Java EE server infrastructure that comes with a rich administrative console and scripting infrastructure for developing and deploying Java EE applications. It is available as a standalone product.

When you license Oracle GlassFish Server, it includes:

- Java EE Server infrastructure

- Java SE. For details on Java SE Editions, see http://www.oracle.com/technetwork/java/javase/terms/products/index.html.

- Oracle GlassFish Message Queue

- Oracle GlassFish Server HTTP load balancer plug-in

- GlassFish Server Control

- Oracle TopLink — for JPA 2.0 persistence infrastructure

- asadmin — the command line interface to Oracle GlassFish Server

- HADB — for Oracle GlassFish 2.*x* releases, enabling additional quality of service support for state management

Oracle GlassFish Server is part of the Oracle Fusion Middleware application grid portfolio and is ideally suited for applications requiring lightweight infrastructure with the most up-to-date implementation of enterprise Java, Java EE 6, and Java Web Services infrastructure.

Oracle GlassFish Server can also be managed with Oracle Enterprise Manager Cloud Control 12c, which is Oracle's integrated enterprise information technology (IT) management product line providing the industry's only complete, integrated, and business-driven enterprise cloud management solution. Management of Oracle GlassFish Server with Cloud Control is separately licensed; see Section 2.19, "WebLogic Server Management Pack Enterprise Edition".

2.4.1 Java SE

Java SE includes the Java Development Kit (JDK), the Java Runtime Environment (JRE) and the JRockit JDK.

For full details on Java SE Editions, see http://www.oracle.com/technetwork/java/javase/terms/products/index.html.

2.5 Oracle Web Tier

Oracle Web Tier is a high performance Web server infrastructure consisting of the following components:

- Oracle HTTP Server

Oracle HTTP Server is an Apache based web server that provides a HTTP listener for Oracle WebLogic Server and the framework for hosting static pages, dynamic pages, and applications over the web.

Oracle HTTP Server includes the following extensions:

- mod_ossl

- proxy plug-in

- mod_oradav

- mod_fastcgi

- mod_rewrite

- mod_plsql

- mod_osso

- mod_perl

- Oracle iPlanet Web Server

  Oracle iPlanet Web Server is the former Sun Java System Web Server, and delivering a single, secure infrastructure for all Web technologies and applications.

- Oracle iPlanet Web Proxy Server

  Oracle iPlanet Web Proxy Server solves the problems of network congestion and slow response time and provides control over network resources without burdening end users or network administrators.

- Oracle Web Cache

  Oracle Web Cache is a content-aware server accelerator, or reverse proxy, for the web tier that improves the performance, scalability, and availability of Web sites running on any web server or application server, such as Oracle HTTP Server and Oracle WebLogic Server. Oracle Web Cache can serve large numbers of client requests, offloading this process from the application server.

- Oracle WebLogic Management Framework (Appendix D)

2.6 Oracle Coherence

Oracle Coherence is an in-memory data grid solution that enables you to scale applications by providing fast access to frequently used data.

This section contains the following topics:

- Section 2.6.1, "Oracle Coherence Standard and Enterprise Edition"

- Section 2.6.2, "Oracle Coherence Grid Edition"

- Section 2.6.3, "Java SE with Oracle Coherence"

- Section 2.6.4, "Oracle TopLink with Oracle Coherence"

- Section 2.6.5, "Coherence Optimizations for Exalogic Elastic Cloud Software"

- Section 2.6.6, "Management Pack for Oracle Coherence"

- Section 2.6.7, "Feature Availability in Coherence Server Editions"

- Section 2.6.8, "Feature Availability in Coherence Client Editions"

2.6.1 Oracle Coherence Standard and Enterprise Edition

This section includes the following topics:

- License Model
- Client Access to Enterprise and Standard Edition Clusters

2.6.1.1 License Model

The licensing model for Coherence Enterprise and Standard Edition provides for homogeneous peer-to-peer deployments within the cluster. That means that every member node in the Coherence cluster needs to be licensed with the same Server Edition of Coherence. For Example, every cluster member node in the Enterprise Edition cluster must be running and be properly licensed for Coherence Enterprise Edition. Standard and Enterprise Edition licensing does not distinguish between Cache Clients[4] and Cache Servers[5]. With Standard and Enterprise Editions Cache Clients must be licensed with the appropriate Server Edition license.

2.6.1.2 Client Access to Enterprise and Standard Edition Clusters

For enabling access to the Enterprise or Standard Edition clusters by clients that are not members of the cluster using TCP/IP (through Extend/TCP) Coherence Data Clients may be used. An unlimited number of Coherence Data Client licenses are included at no additional charge with every license of Coherence Enterprise or Standard Edition. Data Clients are also multi-language clients. Currently Java, C++ or .NET (C#) Data Clients are available. Coherence Data Clients connect to the Coherence cluster through one or more specially configured cluster member node called an Extend Proxy. All Extend Proxy nodes must also be properly licensed with appropriate Server Edition licenses. Coherence Data Clients are able to access (put, get, query) data in the Coherence Cluster and make invocation service requests using standard Coherence APIs, but they do not have the ability to sign up to be notified of the changes to the data in the grid. Further, Data Clients do not have the ability to use Near Caches or Continuous Query, as those capabilities also rely on the ability to receive notifications of data change from the cluster.

Figure 2–1 shows what an Enterprise or a Standard Edition deployment may look like from the licensing perspective.

---

[4] *Cluster member configured as a Cache Client* is a storage-disabled cluster member; that is, one with the `local-storage` attribute for all partitioned cache services set to false.

[5] *Cluster member configured as a Cache Server* is a storage-enabled cluster member; that is, one with the `local-storage` attribute for all or some of the partitioned cache services set to true.

Figure 2–1   Oracle Coherence Standard or Enterprise Edition Deployment
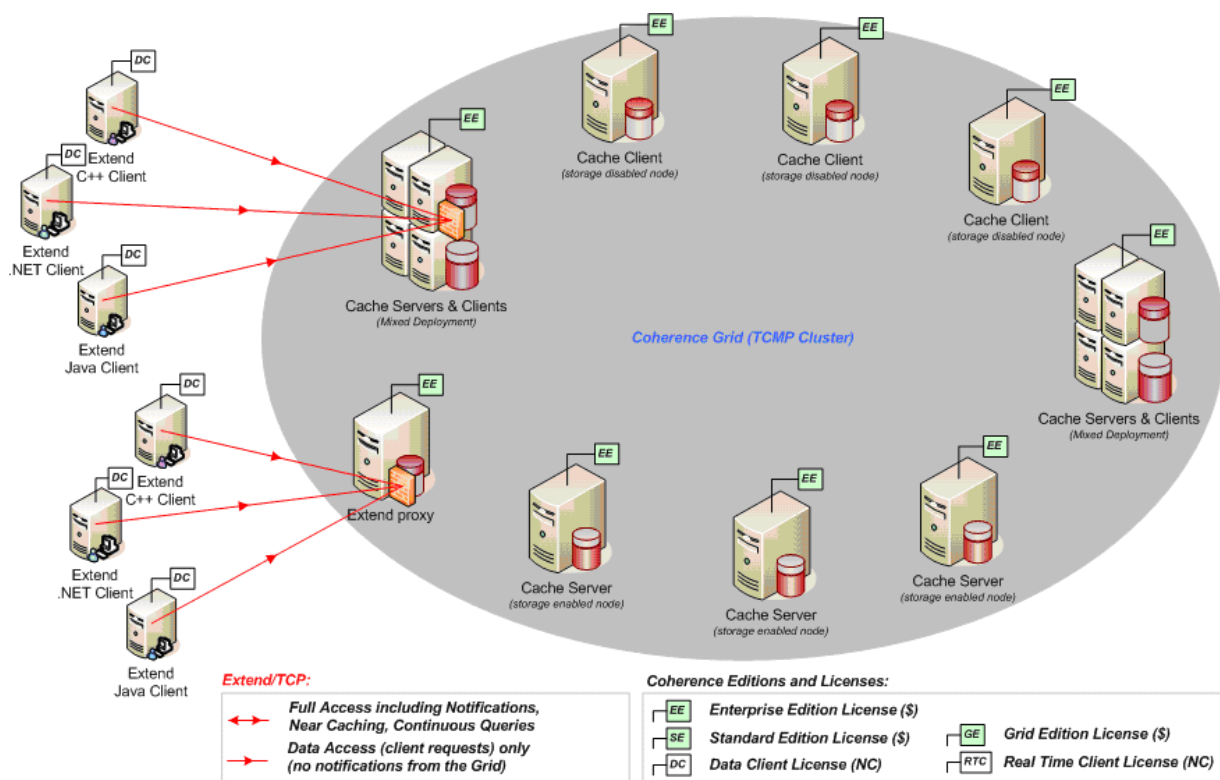
2.6.2 Oracle Coherence Grid Edition

Grid Edition licensing includes the unlimited use of Real Time Clients which may be of the following two types:

■   Real Time Cluster Member Client

■   Real Time Extend/TCP Client

2.6.2.1 Real Time Cluster Member Client

Real Time Cluster Member Clients may be part of the Grid Edition Cluster and have all the capabilities of the Grid Edition except those associated with managing partitioned data and those associated with being an Extend Proxy. In other words they may be thought of as Grid Edition nodes configured to have all their partitioned cache services `storage-enabled` attribute set to `false` and unable to host connections from Extend/TCP Clients.

Real Time Cluster Member Clients are always Java clients.

Real Time Cluster Member Client nodes may not be configured as Extend Proxy for other Real Time Clients (only Server Edition nodes may be configured as Proxy Servers for use by multi-language Data Clients and Real Time Extend/TCP Clients).

2.6.2.2 Real Time Extend/TCP Client

Real Time Extend/TCP Clients connect to the Coherence cluster over TCP/IP through one or more specially configured cluster member node called an Extend Proxy. All Extend Proxy nodes must also be properly licensed with the Grid Edition licenses.

Real Time Extend/TCP Clients are multi-language clients and currently Java, .NET (C#) and C++ Real Time Extend/TCP Clients are available.

In contrast to the Data Clients, Real Time Extend/TCP Clients have the ability to sign up for notifications for events taking place in the Grid and can take advantage of Coherence Near Caches and Continuous Queries.

Under the Grid Edition licensing model, unlimited number of Real Time Client licenses is included at no additional charge with every license of Coherence Grid Edition.

Figure 2–2 shows what a Grid Edition deployment may look like from the licensing perspective.

Figure 2–2   Oracle Coherence Grid Edition Deployment
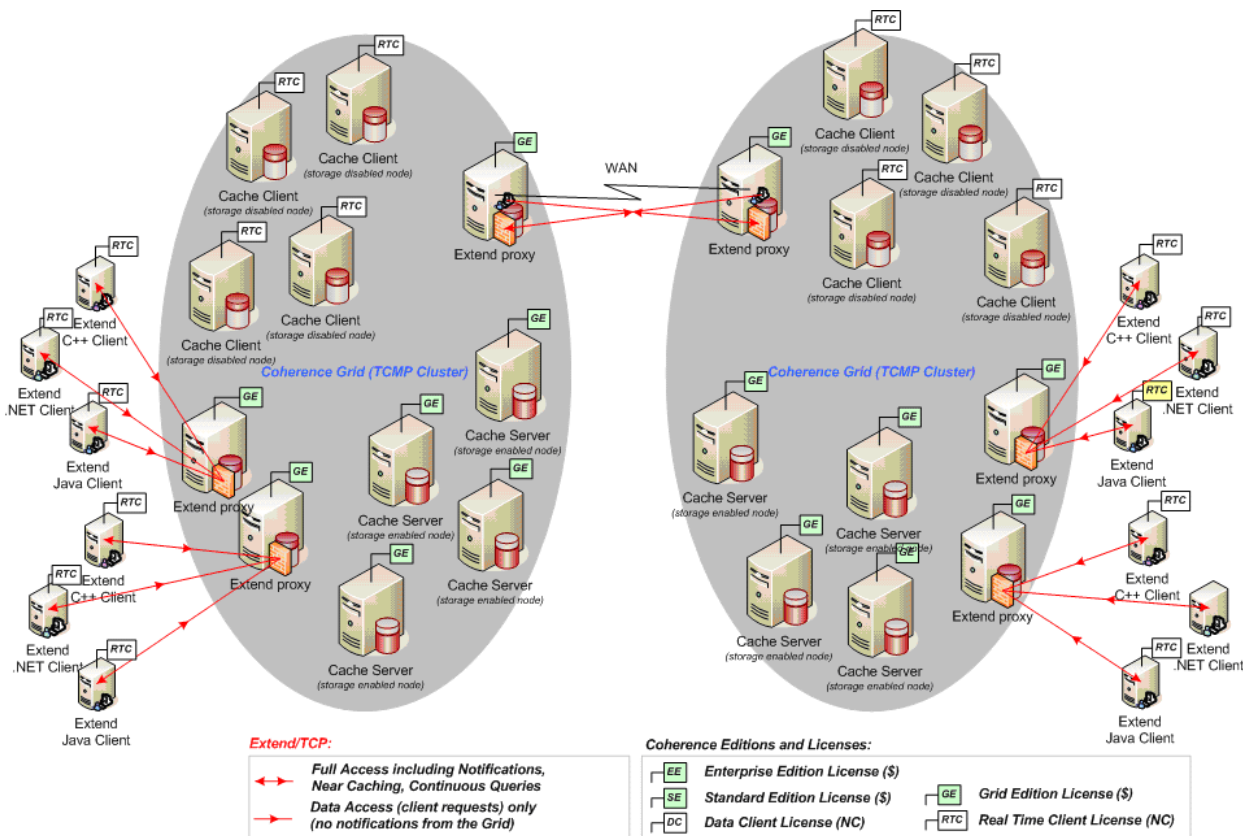
2.6.3 Java SE with Oracle Coherence

Java SE is included in all licenses of Oracle Coherence Standard Edition, Oracle Coherence Enterprise Edition and Oracle Coherence Grid Edition. Java SE is restricted to running applications hosted on components within these products.

For details on Java SE Editions, see
http://www.oracle.com/technetwork/java/javase/terms/products/index.html.

2.6.4 Oracle TopLink with Oracle Coherence

A restricted use license for Oracle TopLink and Application Development Framework (see Section 2.1, "Oracle TopLink and Application Development Framework")

restricted to use TopLink with Coherence is included in all licenses of Oracle Coherence Enterprise Edition and Oracle Coherence Grid Edition.

2.6.5 Coherence Optimizations for Exalogic Elastic Cloud Software

Exalogic Elastic Cloud Software can be configured with Coherence to optimize point-to-point communications in Coherence clusters and to optimize Coherence*Web caching performance.

The entitlement to the following options is available only when Coherence is licensed with Exalogic Elastic Cloud Software:

- For Coherence cluster optimized point-to-point communications on Exalogic the use of the reliable transport options imb and sdmb.

- For Coherence*Web caching performance optimizations on Exalogic use Coherence*Web `OptimizeModifiedSessions` as described in the Coherence*Web Context Parameters Documentation.

2.6.6 Management Pack for Oracle Coherence

Management Pack for Oracle Coherence provides comprehensive monitoring and management capabilities for Coherence. This pack provides complete cluster visibility by supplying detailed metrics of various cluster artifacts and their interdependencies. You can monitor more than one Coherence cluster from a single console.

Enterprise Manager provides out-of-the-box support for metric alerts, enabling users to proactively monitor cluster health. Various performance charts show real-time and historical performance trends. Enterprise Manager automates the mundane tasks of setting up Coherence software and creating a cluster on distributed machines. Enterprise Manager also enables users to start and stop new nodes in an already monitored Coherence cluster. Similarly, users can also start and stop the entire cluster.

For complete license details about Management Pack for Oracle Coherence, see "Oracle Middleware Enterprise Management" in *Oracle Enterprise Manager Licensing Information*. This document is available from the Oracle Enterprise Manager Documentation page at http://www.oracle.com/technetwork/oem/grid-control/documentation /index.html.

2.6.7 Feature Availability in Coherence Server Editions

Table 2–14 lists the features available in the following Coherence Server editions:

- Standard Edition, formerly known as Caching Edition, an application caching solution

- Enterprise Edition, formerly known as Application Edition, an application data management solution

- Grid Edition, formerly known as Data Grid Edition, an enterprise-wide data management solution

Table 2–14   Coherence Server Editions

Category	Feature	Standard Edition	Enterprise Edition	Grid Edition
General	Fault-tolerant data caching	Y	Y	Y
General	Data management including write-behind, transactions, analytics and events	NA	Y	Y
Connectivity	Embedded Data Client and Real Time Client functionality[1]	Y	Y	Y
Connectivity	TCMP cluster technology[2,3]	Y	Y	Y
Connectivity	Support for cross-platform Data Clients	Y	Y	Y
Connectivity	Multicast-free operation (WKA)	NA	Y	Y
Security	Network traffic encryption	Y	Y	Y
Security	Java Authentication & Authorization Service (JAAS)	Y	Y	Y
Management & Monitoring	Management host[4]	Y	Y	Y
Management & Monitoring	Manageable through clustered JMX	NA	Y	Y
Management & Monitoring	Oracle WebLogic Management Framework	NA	Y	Y
Caching	Local cache, Near cache, continuous query cache, real-time events	Y	Y	Y
Caching	Fully replicated data management	Y	Y	Y
Caching	Partitioned data management	Y	Y	Y
Caching	Data source integration through read-through/write-through caching	Y	Y	Y
Caching	Elastic Data	NA	NA	Y
Caching	GoldenGate HotCache	NA	NA	Y
Integration	TopLink integration	Y	Y	Y
Integration	Hibernate integration	Y	Y	Y
Integration	HTTP session management for application servers	NA	Y	Y
Integration	BEA Portal "p13n cache" integration	NA	Y	Y
Analytics	Parallel InvocableMap and QueryMap[5]	NA	Y	Y
Transactions	Write-behind caching	NA	Y	Y
Transactions	J2CA Resource Adapter	NA	Y	Y
Compute Grid	InvocationService	NA	Y	Y
Compute Grid	WorkManager	NA	Y	Y
Enterprise Data Grid	WAN support[6]	NA	NA	Y
Enterprise Data Grid	Support for cross-platform Real Time Clients	NA	NA	Y

[1] Coherence TCMP clusters must be homogeneous with respect to the Coherence Edition. A TCMP cluster of one type (for example, Caching Edition) may connect to a TCMP cluster of another type (for example, Grid Edition) as a Data Client or as a Real Time Client, but this requires server-side licenses. The connection type is configurable and defaults to Real Time Client.

[2] Coherence Editions may not be mixed within the context of a single TCMP-based cluster. Integration of different Edition types is accomplished through Coherence*Extend (with each cluster acting as either a Data Client or a Real Time Client).

[3] Oracle's cluster-aware wire protocol (TCMP) provides detailed knowledge of the entire cluster that enables direct server access for lower latency and higher throughput, faster failover/failback/rebalancing, and the ability for any participating member to act as a service provider (for example, data management, remote invocation, management and monitoring, and so on).

[4] Supports integration with a local MBeanServer. This, with local JMX "agents", allows this node to provide management and monitoring features. Clustered JMX support adds the ability for this node to manage and monitor remote nodes as well.

[5] Parallel support for InvocableMap and QueryMap will result in server-side execution whenever possible, minimizing data transfer, allowing use of indexing, and parallelizing execution across the cluster. Without parallel support, the operations will retrieve the full dataset to the client for evaluation (which may be very inefficient).

[6] Grid Edition is required for WAN and other deployments that implement cluster-to-cluster interconnects, including any deployment where responsibility for data and/or processing spans more than one data center and activities are coordinated between those data centers using any form of Coherence-provided messaging or connectivity, such as deployments that feature two or more TCMP clusters interconnected by Coherence*Extend.

2.6.8 Feature Availability in Coherence Client Editions

Table 2–15 lists the features available in the following Coherence Client Editions: note that the Data Client may be used with all Coherence Server Editions. The Real Time Client may only be used with Grid Edition. Extend/TCP is an abbreviation for Coherence*Extend configured for transport over TCP/IP.

- Data Client — The Data Grid client for use anywhere. May be used with all Coherence Server Editions

- Real Time Client configured as an Extend/TCP client — The real time desktop client. May be used only with Coherence Grid Edition.

- Real Time Client configured as a Compute Client — The server-class client providing key manageability, monitoring, Quality of Service, and performance capabilities. May be used only with Coherence Grid Edition.

Table 2–15   Coherence Client Editions

Category	Feature	Data Client	Real Time Client (Extend/TCP)	Real Time Client (Compute)
General	Access to data and services on the data grid	Y	Y	Y
General	Real time synchronization with the data grid	NA	Y	Y
API Language	Java	Y	Y	Y
API Language	.NET	Y	Y	NA
API Language	C++	Y	Y	NA
Client API	Data transformation (PIFPOF / ExternalizableLite / XmlBean)	Y	Y	Y
Client API	InvocationService[1]	Y	Y	Y
Client API	NamedCache (core)	Y	Y	Y
Client API	NamedCache (with ObservableMap real time events)	NA	Y	Y
Client API	MemberListener	NA	NA	Y
Connectivity	Coherence*Extend client[2]	Y	Y	Y
Connectivity	Multicast-free operation[3]	Y	Y	Y
Connectivity	TCMP cluster technology[4]	NA	NA	Y

Table 2–15   (Cont.) Coherence Client Editions

Category	Feature	Data Client	Real Time Client (Extend/TCP)	Real Time Client (Compute)
Security	Network traffic encryption	Y	Y	Y
Security	Java Authentication & Authorization Service (JAAS)	NA	NA	Y
Caching	Local cache	NA	Y	Y
Caching	Near cache	NA	Y	Y
Caching	Continuous query cache	NA	Y	Y
Caching	Fully replicated cache	NA	NA	Y
Transactions	Local transactions	NA	NA	Y
Integration	Hibernate integration	NA	NA	Y
Integration	HTTP session management for application servers	NA	NA	Y
Integration	BEA Portal "p13n cache" integration	NA	NA	Y
Management & Monitoring	Management host	NA	NA	Y
Management & Monitoring	Manageable through clustered JMX	NA	NA	Y
Compute Grid	InvocationService	NA	NA	Y
Compute Grid	WorkManager	NA	NA	Y

[1]   Data Client and Real Time Client (Extend/TCP) invocations are executed by the Extend Proxy Server they are connected to.

[2]   For Data Clients and Real Time Clients (Extend/TCP), Coherence*Extend is used to extend the core TCMP cluster to a greater ranging network, including desktops, other servers and WAN links. The Coherence*Extend protocol is transported over TCP/IP.

[3]   For Data Clients and Real Time Clients (Extend/TCP), Coherence*Extend is used to extend the core TCMP cluster to a greater ranging network, including desktops, other servers and WAN links. The Coherence*Extend protocol is transported over TCP/IP.

[4]   Oracle's cluster-aware wire protocol (TCMP) provides detailed knowledge of the entire cluster that enables direct server access for lower latency and higher throughput, faster failover/failback/rebalancing, and the ability for any participating member to act as a service provider (for example, data management, remote invocation, management and monitoring, and so on).

2.7 Oracle BPEL Process Manager

Oracle BPEL Process Manager is a tool for integrating applications that is supported only on IBM WebSphere software.

Prerequisite: Oracle BPEL Process Manager requires a separately licensed database.

A license for Oracle BPEL Process Manager includes the following Oracle SOA Suite for Non Oracle Middleware components:

- Oracle BPEL Process Manager
- Human Workflow
- Event Delivery Network
- Technology Adapters

Restricted use: Any use of Oracle SOA Suite for Non Oracle Middleware components not listed above requires a full use license for Oracle SOA Suite for Non Oracle Middleware.

Restricted use: A license for Oracle BPEL Process Manager includes UDDI client libraries from the HP SOA Systinet Registry. Use of UDDI client libraries is restricted to connecting to and communicating with the Oracle Service Registry.

Restricted use: A license for Oracle BPEL Process Manager includes a restricted-use license for Oracle Coherence Enterprise Edition. Oracle Coherence Enterprise Edition may be used solely for clustering, portable object format, local caching, and support for internal Service Oriented Architecture (SOA) usage.

2.8 Oracle WebLogic Integration

Oracle WebLogic Integration is separately licensed as a standalone product.

Prerequisite: Oracle WebLogic Server Enterprise Edition.

2.9 Oracle Service Registry

Oracle Service Registry is a full implementation of the UDDI V3 service registry standard.

Fifty (50) Oracle Service Registry entries are included with Oracle Internet Application Server (Java Edition, Standard Edition or Enterprise Edition) licenses granted before August 8, 2008. All Oracle Internet Application Server (any edition) licenses granted after August 8, 2008 do not include any Oracle Service Registry entries.

2.10 Oracle Enterprise Repository

Oracle Enterprise Repository (OER) provides SOA governance oversight for integrations developed in Oracle SOA Suite and Oracle Service Bus.

Prerequisite: A license for Oracle WebLogic Suite; and Oracle Database Standard Edition or Oracle Database Enterprise Edition are prerequisites to using Oracle Enterprise Repository.

Restricted use: A license for OER includes restricted-use licenses for Oracle Unified Business Process Management Suite (UBPM Suite) or Oracle Unified Business Process Management Suite for Non Oracle Middleware (UBPM Suite for NOM), and Oracle SOA Suite for Oracle Middleware (SOA Suite) or Oracle SOA Suite for Non Oracle Middleware (SOA Suite for NOM), with use restricted to modifying existing workflows that are supplied with OER and implementing new repository-centric workflows. The following capabilities of UBPM Suite and UBPM Suite for NOM are not included in the restricted-use license and any use requires a full use license: Simulation, Process Analytics, and Process Portal. The following capabilities of SOA Suite and SOA Suite for NOM are not included in the restricted-use license and any use requires a full use license: Service Bus, Business Activity Monitoring, and Event Processing.

Restricted Use: A license for OER includes a restricted-use license for Oracle Business Intelligence Publisher to run pre-configured reports supplied with OER. Layout changes to these reports are permitted, but content changes or the creation of new reports require a full use license.

2.11 Oracle SOA Suite for Non Oracle Middleware

Oracle SOA Suite for Non Oracle Middleware is an application integration platform that is supported only on IBM WebSphere software.

The Oracle SOA Suite for Non Oracle Middleware includes:

- Oracle BPEL Process Manager
- Mediator

- Oracle Business Activity Monitoring
- Oracle Web Services Manager
- Oracle Business Rules
- Human Workflow
- Oracle Event Processing
- Oracle JDeveloper and Oracle Application Development Framework
- Technology Adapters
- B2B (B2B engine only. B2B adapters are available separately.)
- Oracle Entitlements Server Basic (see Appendix C "Oracle Entitlements Server Basic")

Prerequisite: Oracle SOA Suite for Non Oracle Middleware requires a separately licensed database.

Restricted use: Oracle Business Activity Monitoring includes a restricted-use license for Oracle Data Integrator Enterprise Edition. Use of Oracle Data Integrator Enterprise Edition is restricted to scenarios where Oracle Business Activity Monitoring is the source of and/or destination for the transformed data.

Restricted use: A license for Oracle SOA Suite for Non Oracle Middleware includes a restricted-use license for Oracle Coherence Enterprise Edition. Oracle Coherence Enterprise Edition may be used solely for clustering, portable object format, local caching, and support for internal Service Oriented Architecture (SOA) usage.

Restricted use: A license for Oracle SOA Suite for Non Oracle Middleware includes UDDI client libraries from the HP SOA Systinet Registry. Use of UDDI client libraries is restricted to connecting to and communicating with the Oracle Service Registry.

2.12 Oracle Unified Business Process Management Suite for Non Oracle Middleware

Oracle Unified Business Process Management Suite is a software suite that integrates the modeling, integration, execution, management and monitoring of business processes into a complete lifecycle that supports rapid change. It enables the creation, execution, and optimization of business processes, providing for unparalleled collaboration between business and IT. As a result, business processes are automated and optimized to improve efficiency and agility while costs are lowered. Oracle Unified Business Process Management Suite leverages your existing IT investments and is specially tuned for line-of-business users. Using Oracle Unified Business Process Management Suite, you can improve productivity and visibility and provide your organization with the ability to respond to market needs as never before.

Customers using WebLogic Server should use Oracle Unified Business Process Management Suite. Customers with non-Oracle application servers, such as WebSphere, should license this "Non Oracle" version. Oracle Unified Business Process Management Suite for Non Oracle Middleware includes the same components and licenses as Oracle Unified Business Process Management Suite.

Oracle Unified Business Process Management Suite for Non Oracle Middleware is licensed as an option on SOA Suite for Non Oracle Middleware.

2.13 Oracle Business Process Management Standard Edition

Oracle Business Process Management Standard Edition (Oracle BPM Standard Edition) combines components of Oracle Unified Business Process Management Suite and Oracle SOA Suite into a powerful set of tools for customers wishing to get started on an integrated approach to modeling, integration, execution, management and monitoring of business processes into a complete lifecycle that supports rapid change.

Oracle BPM Standard Edition comprises the following components. Note specific restrictions below.

- Restricted Use License for Oracle SOA Suite for Oracle Middleware restricted to:

    - Oracle Business Activity Monitoring

        Oracle Business Activity Monitoring (BAM) gives business executives the ability to monitor their enterprise business services in real-time and to correlate their KPIs (key performance indicators) to the actual business process. Oracle BAM also provides users the ability to change the business processes and take corrective action if the business environment changes.

        > **Note:** Use of Oracle BAM within the Oracle BPM Standard Edition license is limited to scenarios where Oracle BPM applications are the source of and/or destination for the transformed data. Any other use of Oracle Business Activity Monitoring requires a license for Oracle SOA Suite for Oracle Middleware.

    - Mediator

        Mediator connects components within a BPM application that expose different interfaces. Mediator can perform duties such as filtering and making routing decisions.

    - Oracle Web Services Manager

        Oracle Web Services Manager provides management, monitoring, and enforcement of WS-Policy, WS-RM & QOS Policies.

    - Oracle Business Rules

        Oracle Business Rules is a high performance light-weight business rules product that delivers agility and enables businesses to change their key decisions and policies rapidly, flexibly, and with confidence.

    - Oracle Human Workflow

        Oracle Human Workflow facilitates the inclusion of human tasks in BPM applications. With a BPM application, the Human Task component provides a human workflow service, which is responsible for all aspects of executing a workflow consisting of one or more human tasks, and a worklist application, which provides a web-based user interface for working and interacting with the tasks created as part of the human workflow.

    - JDeveloper and ADF

        Oracle JDeveloper is a free integrated enterprise development environment with end-to-end support for modeling, developing, debugging, optimizing, and deploying BPM applications. Oracle Application Development Framework (ADF) simplifies Java EE development.

- Restricted Use License for Oracle Unified Business Process Management Suite restricted to:

  – Oracle BPM Studio

    Oracle BPM Studio is a set of extensions on top of Oracle JDeveloper providing Business Process Modeling Notation (BPMN) modeling, including business friendly modeling of supporting artifacts such as organization, business calendars, business catalog, and business objects.

    > **Note:** Within the Oracle BPM Standard Edition license, use of the model simulation feature is not allowed. For running simulations of BPMN models a license of Unified Business Process Management Suite is required.

  – Oracle BPM Composer

    Oracle BPM Composer is a web based modeling and customization tool for BPMN models and Business Rules.

  – Oracle BPMN Service Engine and Workflow Extensions

    Oracle BPMN Service Engine provides the ability to execute BPMN models natively and integrates with Oracle Enterprise Manager Fusion Middleware Control for administration and management. Workflow extensions provided extended features beyond those provided by the Human Workflow component (see below).

    > **Note:** Clustering of BPMN process instances is not supported under the Oracle BPM Standard Edition license. Users who require clustered deployments should use Oracle Unified Business Process Management Suite.

  – Oracle BPM Process Analytics

    Oracle BPM Process Analytics include the ability to define business indicators as part of process models and to capture these and other standard process metrics in an included STAR schema. It also provides seamless integration to Oracle Business Activity Monitoring.

- Technology Adapters

  Oracle BPM Standard Edition includes adapters for BPM applications, which facilitate interaction with external processes. Support is provided for file, ftp, JMS, Advanced Queueing, database, MQ Series, and socket.

- Restricted Use License for Oracle WebCenter Content (restricted Use for managing documents, Web Content – WCM – and Digital Assets – DAM-)

  – Oracle WebCenter Content can be used to store all content that is attached to BPM process instances, process models and other artifacts. This includes base content management features, such as versioning and rendering different renditions of content, as well as indexing content in the repository for integration with search results within the site, or application. This also includes full feature usage of the Web Content Management (WCM), Digital Asset Management (DAM), and other WebCenter Content components for content attached to BPM process instances, models, and other artifacts. All interactions can be done through BPM Standard Edition interfaces, including

Process Composer, and JDev, a custom application, Desktop integrations, or the WebCenter Content user interface, including administration activities.

2.14 Oracle Managed File Transfer

Oracle Managed File Transfer provides centralized file transfer infrastructure tightly integrated with Oracle WebLogic Server, Oracle Enterprise Manager, Oracle SOA Suite, Oracle Unified Business Process Management Suite and Oracle B2B.

Prerequisite: A license for Oracle WebLogic Server Enterprise Edition or Oracle WebLogic Suite; and Oracle Database Standard Edition or Oracle Database Enterprise Edition are pre-requisites to using Oracle Managed File Transfer.

Restricted use: A license for Oracle Managed File Transfer includes Enterprise Scheduler. Use of the Enterprise Scheduler component of Oracle Managed File Transfer is limited to scheduling internal Oracle Managed File Transfer jobs.

Restricted use: A license for Oracle Managed File Transfer includes a restricted-use license for Oracle Coherence Enterprise Edition. Use of Oracle Coherence Enterprise Edition is limited to clustering, portable object format, local caching, and support for internal Service-Oriented Architecture (SOA) usage.

2.15 Oracle Event Processing

Oracle Event Processing is a tool for filtering, correlating and aggregating large quantities of events in real-time.

Oracle Event Processing is a Java SE application, which does not require a Java EE application server to run; just a Java Virtual Machine is sufficient.

Prerequisite: Oracle Event Processing requires a full use license for Oracle Coherence Enterprise Edition. Oracle Java SE Suite is recommended for extreme low latency deterministic real time application deployments together with the Mission Control tooling feature of Oracle Java SE Suite.

2.16 Oracle Mobile Suite

Oracle Mobile Suite includes tools for building mobile applications.

The Oracle Mobile Suite includes the following products or components:

- Oracle Service Bus
- Technology Adapters
- Oracle E-Business Suite Adapter

Prerequisite: A license for Oracle WebLogic Suite is a prerequisite to using Oracle Mobile Suite.

Oracle Mobile Suite and Oracle Mobile Suite Client RunTime must be licensed together.

Restricted use: A license for Oracle Service Bus includes a restricted use license for Oracle Web Services Manager. Use of Oracle Web Services Manager is restricted to policy enforcement in Oracle Service Bus. Authoring and management tooling is limited to capabilities delivered with Oracle Service Bus console screens. New policies may be authored with command line and scripting tools only. . Any other use of Oracle Web Services Manager requires a full use license for Oracle SOA Suite for Oracle Middleware.

2.16.1 Oracle Mobile Suite Client RunTime

A license for Oracle Mobile Suite Client RunTime includes a license for Oracle Mobile Application Framework.

Oracle Mobile Suite and Oracle Mobile Suite Client RunTime must be licensed together.

2.17 Oracle Mobile Application Framework

Oracle Mobile Application Framework includes the framework and runtime environment for developing hybrid mobile applications based on Java, JavaScript, and HTML5 technologies. It allows developers to develop applications, and deploy each application to multiple mobile device platforms.

2.18 Oracle Forms and Reports

Oracle Forms and Reports can be separately licensed, independent of any Oracle Internet Application Server edition.

When you license it independently, Oracle Forms and Reports includes:

- Oracle Forms
- Forms client applet
- Forms Runtime
- Oracle Reports
- WebLogic Server Basic
- Oracle Enterprise Manager Fusion Middleware Control

> **Note:**   All editions of the products Oracle Internet Application Server and Oracle Forms and Reports Server include rights to WebLogic Server Basic. WebLogic Server Basic is only for running components provided within these products such as Forms, Reports, Discoverer and Portal. It can also be used for custom Java applications such as those developed for Oracle Containers for Java EE. Products outside of Oracle Internet Application Server and Oracle Forms and Reports that have licensing dependencies on any edition of Oracle Internet Application Server or Oracle Forms and Reports do not have the right to run those products on WebLogic Server Basic unless stated specifically within their licensing documentation. For complete details about WebLogic Server Basic, see Appendix A, "WebLogic Server Basic."

2.18.1 Restricted-Use Licenses

The following restricted-use licenses are included when you separately license Oracle Forms:

- Restricted Use: Oracle Single Sign-On and Oracle Access Manager Basic are provided for authentication services to users accessing Oracle Forms and Reports. For certification matrix covering system requirements and supported platforms for Oracle Forms and Reports see: http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html.

- Oracle Internet Directory is provided to provision, store, and manage Oracle Forms and Reports users and groups, their associated security credentials and privileges, to synchronize data with third party directory services, and to store other metadata specific to Oracle Forms and Reports.

- Oracle HTTP Server and its modules are provided for running Oracle Forms and Reports applications only.

- WebLogic Server Basic is provided for running Oracle Forms and Reports applications only.

2.19 WebLogic Server Management Pack Enterprise Edition

WebLogic Server Management Pack Enterprise Edition can be licensed for Internet Application Server Enterprise Edition, any edition of Oracle WebLogic Server, or Oracle GlassFish Server

This pack offers a complete, cost-effective, and easy-to-use solution for managing Oracle WebLogic Server, Oracle Application Server, and Oracle GlassFish Server. At a high level, this pack provides capabilities for application performance management, administration, business transaction management, configuration management, service level management, provisioning, and patch automation that span many of these middleware components.

For complete license details about WebLogic Server Management Pack Enterprise Edition, see "Oracle Middleware Enterprise Management" in Oracle Enterprise Manager Licensing Information. This document is available from the Oracle Enterprise Manager Documentation page at
http://www.oracle.com/technetwork/oem/grid-control/documentation/index.html.

3

WebLogic Suite Options

This chapter covers licensing for SOA products. It contains the following sections:

3.1 Oracle BPEL Process Manager Option

Oracle BPEL Process Manager Option is a tool for integrating applications.

A license for Oracle BPEL Process Manager Option includes the following Oracle SOA Suite for Oracle Middleware components:

- Oracle BPEL Process Manager

- Human Workflow

- Event Delivery Network

- Technology Adapters*

- B2B*

- Mediator*

  *These components are included in Oracle BPEL Process Manager Option via the inclusion of Oracle Internet Application Server Enterprise Edition in Oracle WebLogic Suite. The Mediator is derived from Oracle Enterprise Service Bus (OESB), which was introduced in Oracle Fusion Middleware 10g Release 3 and was Oracle's primary Enterprise Service Bus on Oracle Containers for Java EE as well as on third-party Java EE platforms such as WebSphere. Users of Oracle SOA Suite 10g can migrate functionality from OESB to the Mediator component. Oracle Service Bus has become the Fusion Middleware strategic inter-application service bus going forward.

Restricted use: Any use of Oracle SOA Suite for Oracle Middleware components not listed above requires a full use license for Oracle SOA Suite for Oracle Middleware.

Prerequisite: A license for Oracle WebLogic Suite is a prerequisite to license Oracle BPEL Process Manager Option.

Prerequisite: A license for Oracle BPEL Process Manager Option requires a separate license for Oracle database. For details, see Section 2.3.3.3.1, "Full Use License of Oracle Database Standard Edition or Standard Edition One".

Restricted use: A license for Oracle BPEL Process Manager Option includes a restricted-use license for Enterprise Scheduler. Use of the Enterprise Scheduler feature of Oracle BPEL Process Manager Option is limited to scheduling Oracle BPEL Process Manager Option internal jobs and composite services.

Restricted use: A license for Oracle BPEL Process Manager Option includes a restricted-use license for Oracle Coherence Enterprise. Use of Oracle Coherence Enterprise is limited to clustering, portable object format, local caching, and support for internal Service Oriented Architecture (SOA) usage.

Restricted use: A license for Oracle BPEL Process Manager Option release 11g includes UDDI client libraries from the HP SOA Systinet Registry. Use of UDDI client libraries is restricted to connecting to and communicating with the Oracle Service Registry.

3.2 Oracle Service Bus

Oracle Service Bus is a lightweight SOA integration platform, or "enterprise service bus."

Oracle Service Bus is licensed as an option to Oracle WebLogic Suite and is also included in Oracle SOA Suite for Oracle Middleware and Oracle Mobile Suite. Customers running Oracle SOA Suite for Oracle Middleware on WebLogic Server Basic are not entitled to run Oracle Service Bus (see section Oracle SOA Suite for Oracle Middleware and Oracle BPEL Process Manager Option Licensing with Oracle Internet Application Server).

Prerequisite: A license for Oracle WebLogic Suite is a prerequisite to license Oracle Service Bus.

Restricted use: Oracle Service Bus includes the Enterprise Scheduler feature. Use of the Enterprise Scheduler feature is limited to scheduling Oracle Service Bus internal jobs and proxy services.

Restricted Use: A license for Oracle Service Bus includes a restricted use license for Oracle Web Services Manager. Use of Oracle Web Services Manager is restricted to policy enforcement in Oracle Service Bus. Authoring and management tooling is limited to capabilities delivered with Oracle Service Bus console screens. New policies may be authored with command line and scripting tools only. Any other use of Oracle Web Services Manager requires a full use license to Oracle SOA Suite for Oracle Middleware.

3.3 SOA Suite for Oracle Middleware

Oracle SOA Suite for Oracle Middleware is an application integration platform.

Oracle SOA Suite for Oracle Middleware is licensed as an option to Oracle WebLogic Suite and includes:

- Oracle BPEL Process Manager
- Oracle Service Bus
- Mediator

The Mediator is derived from Oracle Enterprise Service Bus (OESB), which was introduced in Oracle Fusion Middleware 10g Release 3 and was Oracle's primary Enterprise Service Bus on Oracle Containers for Java EE as well as on third-party Java EE platforms such as WebSphere. Users of Oracle SOA Suite 10g can migrate functionality from OESB to the Mediator component. Oracle Service Bus has become the Fusion Middleware strategic inter-application service bus going forward.

- Oracle Web Services Manager

- Oracle Business Rules

- Oracle Human Workflow

- Oracle Event Processing

- Oracle JDeveloper and Oracle Application Development Framework

- Enterprise Scheduler

- Oracle Business Activity Monitoring

  Restricted use: Oracle Business Activity Monitoring includes a restricted-use license for Oracle Data Integrator Enterprise Edition. Use of Oracle Data Integrator Enterprise Edition is restricted to scenarios where Oracle Business Activity Monitoring is the source of and/or destination for the transformed data.

- Oracle SOA Suite Adapters (see Chapter 5, "Oracle Fusion Middleware Adapters")

- Oracle Entitlements Server Basic (see Appendix C, "Oracle Entitlements Server Basic")

- Technology Adapters*

- B2B*

  *These components are included in Oracle SOA Suite for Oracle Middleware via the inclusion of Oracle Internet Application Server Enterprise Edition in Oracle WebLogic Suite.

Customers who are running Oracle SOA Suite for Oracle Middleware on WebLogic Server Basic, Section 3.5, "Oracle SOA Suite for Oracle Middleware and Oracle BPEL Process Manager Option Licensing with Oracle Internet Application Server," are licensed to run all components of SOA Suite for Oracle Middleware except Oracle Service Bus and Oracle Event Processing.

Prerequisite: A license for Oracle WebLogic Suite is a prerequisite to license Oracle SOA Suite for Oracle Middleware.

Prerequisite: Oracle SOA Suite for Oracle Middleware requires a separate license for Oracle database. For details, see Section 2.3.3.3.1, "Full Use License of Oracle Database Standard Edition or Standard Edition One"

Restricted use: A license for SOA Suite for Oracle Middleware includes a restricted-use license for Oracle Coherence Enterprise Edition. Use of Oracle Coherence Enterprise Edition is limited to clustering, portable object format, local caching, and support for internal SOA usage.

Restricted use: A license for Oracle SOA Suite for Oracle Middleware release 11g includes UDDI client libraries from the HP SOA Systinet Registry. Use of UDDI client libraries is restricted to connecting to and communicating with the Oracle Service Registry.

3.4 Unified Business Process Management Suite

Oracle Unified Business Process Management Suite is a software suite that integrates the modeling, integration, execution, management and monitoring of business processes into a complete lifecycle that supports rapid change. It enables the creation, execution, and optimization of business processes, providing for unparalleled collaboration between business and IT. As a result, business processes are automated and optimized to improve efficiency and agility while costs are lowered. Oracle Unified Business Process Management Suite leverages your existing IT investments and is specially tuned for line-of-business users. Using Oracle Unified Business Process Management Suite, you can improve productivity and visibility and provide your organization with the ability to respond to market needs as never before.

Oracle Unified Business Process Management Suite comprises the following components:

- Oracle BPM Studio

  Oracle BPM Studio is a set of extensions on top of Oracle JDeveloper providing Business Process Modeling Notation (BPMN) modeling and simulation, including business friendly modeling of supporting artifacts such as organization, business calendars, business catalog, and business objects. In particular, business process guides navigate end users through different activities they need to perform as part of a process, organizing them in milestones and aggregating status.

- Oracle BPM Composer

  Oracle BPM Composer is a web based modeling and customization tool for BPMN models and Business Rules.

- Oracle BPMN Service Engine and Workflow Extensions

  Oracle BPMN Service Engine provides the ability to execute BPMN models natively and integrates with Oracle Enterprise Manager Fusion Middleware Control for administration and management. Workflow Extensions add more advanced capabilities to the base workflow capabilities in Oracle BPEL Process Manager and SOA Suite for Oracle Middleware. These extensions include approval management extensions, which are features targeted at sophisticated document-based and dynamic approval routing.

- Oracle BPM Process Spaces

  Oracle BPM Process Spaces include Oracle Unified Business Process Management Suite- specific WebCenter Spaces Group Spaces, corresponding templates, and task flows.

- Oracle BPM Process Analytics

  Oracle BPM Process Analytics include the ability to define business indicators as part of process models and to capture these and other standard process metrics in an included STAR schema. It also provides seamless integration to Oracle Business Activity Monitoring.

> **Notes:**
>
> 1. Oracle Unified Business Process Management Suite includes a restricted license for Oracle WebPortal for use with Process Portal/Process Spaces only. Oracle WebPortal is a user interaction suite for building portals, composite applications, and Enterprise 2.0 social and collaborative applications with seamless combination of search, publishing, and knowledge management.
>
> 2. Oracle Unified Business Process Management Suite includes a restricted license for Oracle WebCenter Content for use with Oracle Unified Business Process Management Suite and Process Portal/Process Spaces only. For WebCenter Content usage, see the "WebCenter Content" bullet .

- Oracle WebCenter Portal (restricted use: for use with Process Portal/Process Spaces only)

  Oracle WebCenter Portal is a user interaction suite for building portals, composite applications, and Enterprise 2.0 social and collaborative applications with seamless combination of search, publishing, and knowledge management.

- Oracle WebCenter Content (restricted use: for managing documents, Web Content -WCM- and Digital Assets -DAM-)

  Oracle WebCenter Content can be used to store all content that is attached to BPM process instances, process models and other artifacts, as well as delivered as part of any WebCenter Portal Web site, application, or portal (see restricted usage of WebCenter Portal above). This includes base content management features, such as versioning and rendering different renditions of content, as well as indexing content in the repository for integration with search results within the site, portal, or application. This also includes full feature usage of the Web Content Management (WCM), Digital Asset Management (DAM), and other WebCenter Content components for content attached to BPM process instances, models, and other artifacts, as well as delivered via WebCenter Portal. All interactions can be done through BPM Suite interfaces, including Workspace, Process Composer, and JDev, the WebCenter Portal portal interface, a custom application, Desktop integrations, or the WebCenter Content user interface, including administration activities.

Prerequisite: A license for Oracle SOA Suite for Oracle Middleware is a prerequisite to license and use Oracle Unified Business Process Management Suite.

3.5 Oracle SOA Suite for Oracle Middleware and Oracle BPEL Process Manager Option Licensing with Oracle Internet Application Server

Customers that have a valid license for Oracle BPEL Process Manager Option and Oracle SOA Suite for Oracle Middleware on Oracle Internet Application Server Enterprise Edition have the right to use Oracle WebLogic Server Basic to run those products on Oracle WebLogic Server as part of their existing Oracle Internet Application Server Enterprise Edition license. This does not include the right to run Oracle Service Bus or Oracle Event Processing on WebLogic Server Basic. Oracle WebLogic Server Basic is described in Appendix A, "WebLogic Server Basic".

3.6 WebLogic Coherence Grid Edition Option

Oracle Coherence Grid Edition can be licensed as an option to WebLogic Suite. For more information, see Section 2.6.2, "Oracle Coherence Grid Edition."

3.7 Application Server Enterprise Management

The following Oracle Enterprise Manager products can be licensed for use with WebLogic Suite options:

- SOA Management Pack Enterprise Edition

- WebLogic Server Management Pack Enterprise Edition

3.7.1 SOA Management Pack Enterprise Edition

This pack delivers comprehensive management and modeling capabilities for a SOA-based environment. By combining SOA run-time governance, business-IT alignment, model-driven metrics, and SOA infrastructure management with Oracle's rich and comprehensive system management solution, Oracle Enterprise Manager Cloud Control significantly reduces the cost and complexity of managing SOA-based environments.

For complete license details about SOA Management Pack Enterprise Edition, see "Oracle Middleware Enterprise Management" in *Oracle Enterprise Manager Licensing Information*. This document is available from the Oracle Enterprise Manager Documentation page at
`http://www.oracle.com/technetwork/oem/grid-control/documentation/index.html`.

3.7.2 WebLogic Server Management Pack Enterprise Edition

This pack offers a complete, cost-effective, and easy-to-use solution for managing Oracle Fusion Middleware, Oracle WebLogic Server, and Oracle Application Server.

For licensing information, please refer to Section 2.19, "WebLogic Server Management Pack Enterprise Edition".

4

Exalogic Elastic Cloud Software

The Oracle Exalogic Elastic Cloud Software is the unique set of software components, tools, and documentation required to make the Exalogic Elastic Cloud Hardware functional and usable as a platform for Oracle's Fusion Middleware and business applications.

The Exalogic Elastic Cloud Software license also grants the right to use all supported features of the software and firmware installed on the Exalogic Elastic Cloud Hardware by Oracle at the time of manufacture.

There are no supported means of operating the Exalogic Elastic Cloud Hardware that does not require use of the Exalogic Elastic Cloud Software.

The principal components of the Exalogic Elastic Cloud Software are as follows:

- **Exalogic Base Image**: a collection of device drivers, device firmware, software libraries and configuration files that allow other software products to make use of the Exalogic Elastic Cloud Hardware and ensure the optimal performance and reliability of the system. Portions of this software extend the Oracle Linux and Oracle Solaris bootable operating system images that are required to operate the Exalogic Elastic Cloud hardware.

- **Oracle Traffic Director**: an optimized software load balancer feature providing a highly available, high performance routing, caching and network traffic shaping capability for Exalogic.

- **Oracle Virtual Assembly Builder**: enables rapid configuration and provisioning of multi-tier application topologies onto virtualized and cloud environments.

  Oracle Virtual Assembly Builder includes the following restricted use licenses:

  - Restricted Use License Oracle WebLogic Enterprise Edition restricted to WebLogic Server to be used as a host to provide Java EE runtime environment for Oracle Virtual Assembly Builder Deployer in Exalogic Control

  - Restricted Use License Oracle Coherence Enterprise Edition to be used for persistence, state management architecture and high availability for Oracle Virtual Assembly Builder Deployer functionality in Exalogic Control

- **Exalogic System Utilities**: A collection of utilities that are used to configure and validate the configuration, physical state, firmware and software of the Exalogic system.

Oracle Exalogic Elastic Cloud Software also includes a license-restricted set of features that enables improved performance and reliability of Fusion Middleware products. For information about using these optimizations on the Exalogic Elastic Cloud, see "Enabling Exalogic-Specific Enhancements in Oracle WebLogic Server 11g Release 1" in *Exalogic Elastic Cloud Enterprise Deployment Guide*:

http://docs.oracle.com/cd/E18476_
01/doc.220/e18479/optimization.htm

Oracle Exalogic Elastic Cloud Software has the following performance optimization entitlements for each Fusion Middleware product identified below:

4.1 Oracle WebLogic Server

- Section 2.2.4.1, "Input/ Output and Work Manager Optimizations for Exalogic Elastic Cloud Software"

- Section 2.2.4.2, "JDBC and Data Source Optimizations for Exalogic Elastic Cloud Software"

- Section 2.2.4.3, "Cluster State Replication Optimizations for Exalogic Elastic Cloud Software"

- Section 2.2.4.4, "Socket Direct Protocol for Exalogic Elastic Cloud Software"

- Section 2.2.4.5, "Server and Service Migration Performance Optimizations for Exalogic Elastic Cloud Software"

- Section 2.2.4.6, "Java Server Page Factory Caching Optimizations for Exalogic Elastic Cloud Software"

- Section 2.2.4.7, "Oracle HTTP Client Optimizations for Exalogic Elastic Cloud Software"

4.2 Oracle Coherence

- Section 2.6.5, "Coherence Optimizations for Exalogic Elastic Cloud Software"

4.3 Oracle Tuxedo

- Section 8.4.1, "Tuxedo Optimization for Inter-node Communication"

- Section 8.4.2, "Socket Direct Protocol for Exalogic Elastic Cloud Software"

- Section 8.4.3, "Tuxedo Optimization for Lock Mechanism"

5

Oracle Fusion Middleware Adapters

This chapter covers licensing for Oracle Fusion Middleware adapters.

Table 5–1 lists the types of integration adapters:

Table 5–1   Oracle Fusion Middleware Adapters

Application Adapters[1]	Mainframe and TP-Monitor	Changed Data Capture (CDC) Adapters	B2B Adapters[2]	Technology Adapters[3]	Cloud Adapters	SOA Suite Adapters[4]	Integration Adapters
SAP	CICS	VSAM Batch	RosettaNet	File	Salesforce.com	LDAP	SAP R/3
PeopleSoft	IMS DB	Adabas	EDI	FTP		Coherence	JD Edwards World
Siebel	IMS TM	DB2/390	Healthcare	JMS		MSMQ	
J. D. Edwards	Tuxedo	Microsoft SQL Server 2000	ebXML	Advanced Queueing			
Oracle E-Business Suite Adapter	VSAM	Microsoft SQL Server 2005		Database			
		IMS/DB		MQ Series			
		VSAM CICS		Socket			
				UMS			

[1] Note that SAP, Peoplesoft, Siebel and J. D. Edwards are each licensed separately under the "Application Adapters" product.

[2] Note that the B2B for ebXML adapter is available either standalone, or as an included component of B2B for RosettaNet, B2B for EDI, or Healthcare Adapter.

[3] Technology Adapters are included in the licenses for the following products: (1) Oracle Internet Application Server Enterprise Edition (IASEE) (2) Oracle WebLogic Suite (through its IASEE component); (3) Oracle SOA Suite for Non-Oracle Middleware; and (4) Oracle Mobile Suite. Note that Oracle SOA Suite for Oracle Middleware requires Oracle WebLogic Suite as a prerequisite, so Technology Adapters are available to Oracle SOA Suite for Oracle Middleware users. All other adapters are licensed separately.

[4] Note that Oracle SOA Suite adapters are only available through Oracle SOA Suite for Oracle Middleware.

5.1 License Prerequisites

Pre-requisite: A license for Oracle Service Bus or Oracle BPEL Process Manager Option or Oracle BPEL Process Manager or Oracle SOA Suite for Oracle Middleware or Oracle SOA Suite for Non Oracle Middleware or Oracle WebLogic Integration is a pre-requisite for Application Adapters.

Pre-requisite: A license for Oracle Service Bus or Oracle BPEL Process Manager Option or Oracle BPEL Process Manager or Oracle SOA Suite for Oracle Middleware or Oracle

SOA Suite for Non Oracle Middleware is a pre-requisite for Mainframe and TP-Monitor Adapters.

Pre-requisite: A license for Oracle Service Bus or Oracle BPEL Process Manager Option or Oracle BPEL Process Manager or Oracle SOA Suite for Oracle Middleware or Oracle SOA Suite for Non Oracle Middleware or Oracle Internet Application Server Enterprise Edition is a pre-requisite for B2B Adapters (RosettaNet, EDI and ebXML).

Pre-requisite: A license for Oracle SOA Suite for Oracle Middleware is a pre-requisite for B2B Adapters (Healthcare)

Pre-requisite: A license for Oracle Service Bus or Oracle BPEL Process Manager Option or Oracle SOA Suite for Oracle Middleware is a pre-requisite for Cloud Adapters.

Pre-requisite: A license for Oracle Service Bus or Oracle BPEL Process Manager Option or Oracle SOA Suite for Oracle Middleware is a pre-requisite for Integration Adapters.

6

Java SE Products

This chapter provides links to licensing information for the Java Platform product family. It contains the following sections:

- Section 6.1, "Oracle Java SE Advanced"
- Section 6.2, "Oracle Java SE Suite"

6.1 Oracle Java SE Advanced

Licensing Information for Java SE products, including Oracle Java SE Advanced, is available at the following location:

http://www.oracle.com/technetwork/java/javase/documentation/index.html

6.2 Oracle Java SE Suite

Licensing information for Java SE products, including Oracle Java SE Suite, is available at the following location:

http://www.oracle.com/technetwork/java/javase/documentation/index.html

7

Data Integration Products

This chapter describes the licensing information for Data Integration products. It contains the following sections:

-
-
-
-
-
-
-
-
-

7.1 Oracle Data Integrator Enterprise Edition

Oracle Data Integrator Enterprise Edition is a software package for enabling scalable data integration in heterogeneous data environments.

Oracle Data Integrator Enterprise Edition includes the following components:

- Oracle Data Integrator (ODI) (excluding those technologies separately licensed in the Oracle Application Adapters for Data Integration).
- Oracle Warehouse Builder Enterprise ETL

To obtain high availability with Oracle Data Integrator Enterprise Edition, a separate license for the appropriate edition of Oracle WebLogic Server or Oracle Coherence is required.

Prerequisite: A license for Oracle Database Enterprise Edition is a prerequisite to using Oracle Warehouse Builder Enterprise ETL.

Oracle Warehouse Builder Enterprise ETL extends the extraction, transformation, and loading (ETL) features separately available with Oracle Database and includes the following functionality:

- Accessing sources and targets
  - Native support for heterogeneous databases, including the definition of new platform types, JDBC connectivity, knowledge modules, and code templates
  - Support for Exadata hybrid columnar compression

- – Transparent Data Encryption (TDE) support

- – External Table support for Data Pump imports and exports

- – External Table preprocessor support

- – Change Data Capture mappings in ET

- – Publishing and consuming web services, including integrating with process orchestration technologies such as Oracle BPEL Process Manager

- – Importing Cobol copybooks using the built-in wizard

- – Targeting XML files

- Data Guard certification and failover support

- Working with dimensional objects

  - – Creating slowly changing dimensions, types 2 and 3

  - – Storing data in OLAP cube-organized materialized views

  - – Defining orphan management policies

- Designing and executing ETL jobs

  - – Right-time data warehousing utilizing queues and real-time mappings

  - – Reusing and embedding mapping code with pluggable mappings

  - – Specifying the load order of multiple targets in a single mapping

  - – Partitioning and parallelizing updates to tables by utilizing the data chunking feature

  - – Scheduling ETL jobs using the built-in Schedule interface

  - – Using advanced process flows features (activity templates, use of the following activities: Assign, Set Status, For Loop, While Loop, Route, Notification, EJB, Java Class, and Webservice)

  - – Designing mappings to handle complex types using the following operators: varray iterator, construct object, and expand object

  - – Rapidly moving large amounts of data with transportable modules

  - – Using spatial transformations and streams transformations

  - – Compiled PL/SQL code generation

  - – Bulk code templates for Oracle --> Oracle, SQL Server --> Oracle, and DB2 --> Oracle

- Integrating with other products

  - – Deploying metadata directly to Oracle Discoverer End User Layer

  - – Deriving and deploying metadata to Oracle Business Intelligence Enterprise Edition

- Administering Warehouse Builder and its metadata repository

  - – Support for database failover

  - – Managing environments, including promoting from development to test to production, using the multiple configurations functionality

  - – Interactively analyzing metadata lineage and impact and automatically propagating metadata change using the Metadata Dependency Manager

    – Extending the metadata repository using the following: user-defined objects, user-defined associations, user-defined modules, creating icon sets and custom icons

    – Hosting the OWB design repository in an Oracle Real Application Clusters (Oracle RAC) environment (executing in an Oracle RAC environment does not require this license)

    – Operating multiple databases with OWB repositories from a single Oracle home

Restricted use: A license for Oracle Data Integrator Enterprise Edition includes a restricted use license for Oracle WebLogic Server Standard Edition. Use of Oracle WebLogic Server Standard Edition is restricted to running the Oracle Data Integrator Web Console. Any other use requires a full use license.

7.2 Oracle Data Integration Suite

Oracle Data Integration Suite (ODI Suite) is a software bundle for enabling scalable, highly-accessible data integration in any heterogeneous data environment.

Oracle Data Integration Suite includes:

- Oracle Data Integrator Enterprise Edition

- Hyperion Data Relationship Management (up to maximum of 2,000 records per processor)

Restricted use: A license for Oracle Data Integration Suite includes restricted-use licenses for the following components:

- Oracle WebLogic Suite is included as host solely for ODI Suite components including run-time components to provide Java run-time environment as well as configuration and administration components used for the setup and management of these run-time components.

- Oracle BPEL Process Manager is included for use with Oracle Data Integrator and/or Hyperion Data Relationship Management as endpoints.

- Oracle Service Bus is included for use with Oracle Data Integrator and/or Hyperion Data Relationship Management as endpoints.

7.3 Oracle Enterprise Data Quality

Oracle Enterprise Data Quality (EDQ) technology includes the following separately licensed products:

- Oracle Enterprise Data Quality Profiling for Data Integration

- Oracle Enterprise Data Quality Audit and Dashboard for Data Integration

- Oracle Enterprise Data Quality Batch Processing for Data Integration

- Oracle Enterprise Data Quality Real-time Processing for Data Integration

- Oracle Enterprise Data Quality Address Verification Server for Data Integration

Restricted use: A license to any of the EDQ products listed above includes a restricted-use license for WebLogic Server Standard Edition (WLSSE). Use of WLSSE is restricted to hosting Java application logic that is distributed as part of the EDQ products listed above. Any modifications implemented as Java programs, which include Java that produces html interfaces or Java business logic, are not permitted. The restricted-use license for WLSSE includes use of the Application Development

Framework subcomponent of the TopLink and ADF component. Any other use of WLSSE requires a full use license.

7.3.1 Oracle Enterprise Data Quality Audit and Dashboard for Data Integration

Prerequisite: A license to Oracle Enterprise Data Quality Profiling for Data Integration is a prerequisite to license and use Oracle Enterprise Data Quality Audit and Dashboard for Data Integration.

7.3.2 Oracle Enterprise Data Quality Batch Processing for Data Integration

Restricted use: Oracle Enterprise Data Quality Batch Processing for Data Integration is restricted to interoperation only with an Oracle software product that is included in the Oracle Technology Commercial Price List (http://www.oracle.com/us/corporate/pricing/technology-price-list-070617.pdf) or with your or any third party software application.

Prerequisite: A license to Oracle Enterprise Data Quality Profiling for Data Integration or Oracle Enterprise Data Quality Profile and Audit is a prerequisite to license and use Oracle Enterprise Data Quality Batch Processing for Data Integration.

7.3.3 Oracle Enterprise Data Quality Real-time Processing for Data Integration

Restricted use: Oracle Enterprise Data Quality Real-time Processing for Data Integration is restricted to interoperation only with an Oracle software product that is included in the Oracle Technology Commercial Price List (http://www.oracle.com/us/corporate/pricing/technology-price-list-070617.pdf) or with your or any third party software application.

Prerequisite: A license to Oracle Enterprise Data Quality Batch Processing for Data Integration is a prerequisite to license and use Oracle Enterprise Data Quality Real-time Processing for Data Integration.

7.3.4 Oracle Enterprise Data Quality Address Verification Server for Data Integration

Prerequisite: A subscription to address data packs obtained from Oracle's partner, Loqate Inc., is required to license and use Oracle Enterprise Data Quality Address Verification Server for Data Integration.

Prerequisite: A license to Oracle Enterprise Data Quality Batch Processing for Data Integration is a prerequisite to license and use Oracle Enterprise Data Quality Address Verification Server for Data Integration.

7.4 Oracle Application Adapters for Data Integration

Oracle Application Adapters for Data Integration assist for reverse-engineering metadata and extracting bulk data from the enterprise resource planning (ERP) software applications listed below in this section.

Restricted use: Each Application Adapter for Data Integration is licensed separately. Use of Application Adapter(s) for Data Integration is restricted for use with Oracle Data Integrator Enterprise Edition and the Oracle Data Integrator component.

Application Adapters for Data Integration are available for PeopleSoft, JD Edwards World, JD Edwards Enterprise One, E-Business Suite, Siebel, SAP Applications and SAP Business Warehouse Applications.

Table 7–1   Included components for Application Adapters for Data Integration

Oracle Application Adapters for Data Integration:	Included Components:
Application Adapter for Data Integration for PeopleSoft	Reverse-engineering Knowledge Module PeopleSoft Oracle Reverse-engineering Knowledge Module PeopleSoft MSSQL
Application Adapter for Data Integration for JD Edwards World	Reverse-engineering Knowledge Module JDE World Reverse-engineering Knowledge Module JDE World (JDE World JDBC Driver) Integration Knowledge Module JDE World Control Append
Application Adapter for Data Integration for JD Edwards Enterprise One	Reverse- Engineering Knowledge Module JDE Enterprise One Oracle Reverse-Engineering Knowledge Module JDE Enterprise One SQL Server Reverse-engineering Knowledge Module JDE Enterprise One DB2 UDB Reverse-engineering Knowledge Module JDE Enterprise One DB2 AS400 Integration Knowledge Module JDE Enterprise One Control Append (UBE)
Application Adapter for Data Integration for Siebel	Integration Knowledge Module SQL to Siebel Append (EIM) Loading Knowledge Module Siebel to SQL (EIM) Reverse-engineering Knowledge Module Siebel Oracle Reverse-engineering Knowledge Module Siebel EIM Oracle Reverse-engineering Knowledge Module Siebel MSSQL Reverse-engineering Knowledge Module Siebel EIM MSSQL
Application Adapter for Data Integration for E-Business Suite	Integration Knowledge Module E-Business Suite (Open Interface) Reverse-engineering Knowledge Module E-Business Suite
Application Adapter for Data Integration for SAP Applications	Reverse-engineering Knowledge Module SAP ERP Connection Test Loading Knowledge Module SAP ERP to Oracle (SQLLDR) Loading Knowledge Module SAP ERP to SQL Reverse-engineering Knowledge Module SAP ERP
Application Adapter for Data Integration for SAP Business Warehouse	Reverse-engineering Knowledge Module SAP BW Loading Knowledge Module SAP BW to Oracle (SQLLDR) Loading Knowledge Module SAP to SQL

7.5 Oracle Application Adapters for Warehouse Builder

Each Application Adapter for Warehouse Builder is licensed separately. Any use of Application Adapters for Warehouse Builder, including customers constructing their own application adapters for Warehouse Builder using Oracle-documented APIs, requires a full use license for Oracle Data Integrator Enterprise Edition.

Application Adapters for Warehouse Builder are available for PeopleSoft, SAP, Siebel, and E-Business Suite.

7.6 Oracle GoldenGate Products

Oracle Golden Gate technology includes the following separately licensed products:

- Oracle GoldenGate
- Oracle GoldenGate for Non Oracle Database

- Oracle GoldenGate for Mainframe

- Oracle GoldenGate for Teradata Replication Services

- Oracle GoldenGate Application Adapters

- Oracle GoldenGate Veridata

For details on a supported database platform for your product version please refer to the Oracle Fusion Middleware Supported System Configurations (http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html) and/or the certification tab under My Oracle Support (for supported customers only; http://support.oracle.com).

7.6.1 Oracle GoldenGate

Oracle GoldenGate provides the ability to capture and deliver database transactions for Oracle databases.

A license for Oracle GoldenGate includes Oracle Active Data Guard and XStream, subject to the following prerequisite:

Prerequisite: A license for Oracle Database Enterprise Edition is a prerequisite for using Oracle Active Data Guard or XStream.

Restricted use: A license for Oracle Golden Gate includes a restricted-use license to Oracle GoldenGate Applications Adapters (GGAA) for JMS and Flat File. Use of GGAA is restricted to the JMS functionality used solely for enabling communication from Oracle Golden Gate to separately licensed Oracle Coherence Grid Edition deployments.

7.6.2 Oracle GoldenGate for Non Oracle Database

Oracle GoldenGate for Non Oracle Database provides the ability to capture database transactions from supported non-Oracle open systems databases and/or deliver database transactions to supported non-Oracle open systems databases.

Oracle GoldenGate for Non Oracle Database does not include Oracle Active Data Guard, XStream or the restricted use license to Oracle GoldenGate Application Adapters for JMS and FlatFile.

7.6.3 Oracle GoldenGate for Mainframe

Oracle GoldenGate for Mainframe provides the ability to capture and deliver database transactions from HP NonStop or IBM DB2 on z/OS databases.

When Oracle GoldenGate for Mainframe is used in an HP NonStop environment for products that run on the Guardian operating system (Enscribe and SQL/MP), it includes SyncFile.

7.6.4 Oracle GoldenGate for Teradata Replication Services

Oracle GoldenGate for Teradata Replication Services provides the ability to capture database transactions from Teradata databases and deliver database transactions to Teradata databases.

Prerequisite: A license for Teradata Access manager from Teradata Corporation is a prerequisite to enable the capture process on Teradata.

7.6.5 Oracle GoldenGate Application Adapters

The following Oracle GoldenGate Application Adapters are available:

- Oracle GoldenGate Application Adapter for Base24,
- Oracle GoldenGate Application Adapter for JMS and Flat File
- Oracle GoldenGate Application Adapter for Logger for Enscribe

7.6.5.1 Oracle GoldenGate for Application Adapter for Base24

Oracle GoldenGate provides adapters to integrate BASE24 components heterogeneously, moving data from ATM networks to the core banking systems for online processing.

A license for Oracle GoldenGate Application Adapter for Base24 includes the following components:

- Oracle GoldenGate D24
- Oracle GoldenGate N24
- Oracle GoldenGate T24

7.6.5.2 Oracle GoldenGate Application Adapter for JMS and Flat File

Oracle GoldenGate Application Adapter for JMS and Flat File includes the following components:

- Oracle GoldenGate for Flat File
- Oracle GoldenGate for Java

7.6.5.3 Oracle GoldenGate Application Adapter for Logger for Enscribe

The adapter is for non-audited Enscribe database platforms.

7.7 Oracle GoldenGate Veridata

Oracle GoldenGate Veridata is a data comparison solution that identifies and reports data discrepancies between databases.

7.8 Oracle Data Service Integrator

Oracle Data Service Integrator is a platform for delivering real-time, integrated, reusable information as a service, regardless of where the data is from.

Restricted use: A license for Oracle Data Service Integrator includes a restricted-use license for Oracle WebLogic Server Enterprise Edition as host solely for Oracle Data Service Integrator, including run-time components to provide Java run-time environment and HTTP support, as well as configuration and administration components used for the setup and management of these run-time components.

7.9 Management Packs

The following Management Packs for Data Integration Technology are available:

- Oracle Management Pack for Oracle Data Integrator
- Oracle Management Pack for Oracle GoldenGate

7.9.1 Oracle Management Pack for Oracle GoldenGate

A license for Management Pack for Oracle GoldenGate includes Oracle GoldenGate Director.

Restricted use: A license for Management Pack for Oracle GoldenGate includes a restricted-use license for Oracle WebLogic Server Standard Edition. Oracle WebLogic Server Standard Edition use is restricted to hosting Java Enterprise Edition (Java EE) or Java application logic that is distributed as part of Management Pack for Oracle GoldenGate.

7.9.2 Oracle Management Pack for Oracle Data Integrator

Management Pack for Oracle Data Integrator provides a consolidated view of a user's entire Oracle Data Integrator (ODI) infrastructure enabling users to monitor and manage the ODI components centrally.

8

Oracle Tuxedo Licensing

This chapter describes licensing for Oracle Tuxedo and its add-on products. It contains the following sections:

8.1 The Oracle Tuxedo Product Family

The Oracle Tuxedo product family provides infrastructure for building C/C++/COBOL based, high performance, transactional applications in heterogeneous environment that extend from the Web to the Enterprise. Using Oracle Tuxedo, users can develop, manage, and deploy distributed applications independently of the underlying hardware, operating system, network, and database environment.

Oracle Tuxedo product family consists of several products. It includes Oracle Tuxedo and several add-on products. All products in Tuxedo product family are individually licensed. All add-on products are described in Section 8.3, "Add-on Products for Oracle Tuxedo".

8.2 Oracle Tuxedo

Oracle Tuxedo provides the foundation for the Oracle Tuxedo product family. Oracle Tuxedo consists of many server and client components as listed below.

8.2.1 Tuxedo Server Components

The license for Oracle Tuxedo provides unrestricted use of the following server component software included with Tuxedo for creating applications hosted on Tuxedo:

- Oracle Application-to-Transaction Monitor Interface (ATMI) server software

- Oracle Common Object Request Broker Architecture (CORBA) C++ server software

- Oracle SNMP Agent software

- Oracle Tuxedo Administration Console software

- Link-Level Encryption (LLE) and Secure Sockets Layer (SSL) encryption software

8.2.2 Standalone Tuxedo Clients

The license for Oracle Tuxedo provides unrestricted use of the following client software bundled with Tuxedo for creating standalone clients that access applications hosted on Tuxedo:

- Oracle ATMI Workstation (/WS) client software

- Oracle CORBA C++ client software-includes the C++ client Object Request Broker (ORB) and the environmental objects

- Tuxedo.NET Workstation client software

Oracle Tuxedo installer can be used to install server and client components listed above.

8.3 Add-on Products for Oracle Tuxedo

The Oracle Tuxedo product family consists of following add-on products. Some of these products are included in the Oracle Tuxedo installer, however Oracle Tuxedo license does not extend to these add-on products. Each add-on product must be separately licensed prior to use.

Table 8–1   Add-on Products for Oracle Tuxedo

Product Option	Description
Oracle Tuxedo Jolt	Provides Java-based client API to access the Oracle Tuxedo application services extending functionality of existing Tuxedo applications to Intranet- and Internet-wide availability. The Jolt client API can be used in standalone mode or from within an application server, such as Oracle WebLogic server.
Oracle Service Architecture Leveraging Tuxedo (SALT)	Enables access to Tuxedo services as Web services as well as enables Tuxedo applications to access Web services hosted outside of Tuxedo domain. SALT provides easy to use, configuration driven model, without requiring any programming.
Oracle Tuxedo System and Applications Monitor Plus (TSAM Plus)	Monitors and manages system servers, application servers, and application transactions. Major functionality of Oracle TSAM Plus is as follows: - Performance monitoring and diagnostics: manage across multiple domains, improve performance and availability; diagnose application problems - Operations automations: manage application life cycle; dynamically provision applications and dynamically scale up/out - Service level agreement for business services You must run a TSAM Plus agent on each computer that you want to monitor and manage using TSAM Plus Manager. Each TSAM Plus agent must be licensed. You can run one or more instances of the TSAM Plus Manager and its Console without any additional licenses. Includes a plugin for Oracle Enterprise Manager Cloud Control (OEM CC) 12c to manage Oracle Tuxedo systems and applications. When using OEM CC, each monitored Tuxedo node must be licensed.
Oracle Tuxedo Mainframe Adapters (SNA and TCP)	Provide bi-directional and transactional connectivity between Tuxedo and CICS/IMS services running on IBM or Unisys mainframes. These adapters support automatic data conversion to and from HOST formats.
Oracle Tuxedo JCA Adapter	Enables bi-directional access between Tuxedo services and Java EE application servers, such as Oracle WebLogic Server. Tuxedo JCA Adapter is licensed on the computer where the Java EE application server is running.
Oracle Tuxedo Application Rehosting Workbench	Helps simplify and accelerate mainframe application rehosting by automating code and data migration.

Table 8–1   (Cont.) Add-on Products for Oracle Tuxedo

Product Option	Description
Oracle Tuxedo Application Runtime (ART) for CICS and Batch	Supports IBM mainframe applications rehosted to Oracle Tuxedo. It provides a combination of APIs and services that allows OLTP and Batch mainframe applications to run unchanged, preserving investment in business logic and data.
Oracle Tuxedo Application Runtime (ART) for Batch	Enables rehosting of mainframe batch applications to Oracle Tuxedo running on open systems. Supports JCL converted by ART Workbench and provides required JES services, JCL functions, and standard utilities, which allows batch applications run unchanged, preserving investment in business logic and data, reducing cost and risk of migration. Supports VSAM files, flat files, GDGs, DB2 UDB, DB2Connect, and Oracle DB. Provides CLI shell for batch operations and relies on TSAM/EM for Batch monitoring and operations Web UI. Provides CICS integration with ART for CICS and IMS integration with ART for IMS (to run IMS BMP jobs).
Oracle Tuxedo Application Runtime (ART) for IMS	Supports IBM IMS TM mainframe applications rehosted to Oracle Tuxedo. It provides an IMS-compatible programming model and required services that allow TP and Batch mainframe applications to run unchanged, preserving investment in business logic and data, reducing cost and risk of migration.
Oracle Tuxedo Message Queue	Enterprise messaging product that offers rich messaging functionality, such as store-and-forward, asynchronous queue operations, publish and subscribe, filtering, notification and delivery interest points, reliable message delivery, dynamic queue alias, undelivered message action. Oracle Tuxedo Message Queue must be licensed on all nodes where it is installed.

8.4 Oracle Tuxedo Optimizations for Exalogic Elastic Cloud Software

The following section describe the Oracle Tuxedo optimizations for Exalogic Elastic Cloud Software:

- Section 8.4.1, "Tuxedo Optimization for Inter-node Communication"
- Section 8.4.2, "Socket Direct Protocol for Exalogic Elastic Cloud Software"
- Section 8.4.3, "Tuxedo Optimization for Lock Mechanism"

8.4.1 Tuxedo Optimization for Inter-node Communication

Exalogic Elastic Cloud Software can be configured with Tuxedo to optimize inter-node communication within a Tuxedo domain. These optimizations are enabled when Exalogic domain-level enhancements are enabled as described in *Oracle Tuxedo on Oracle Exalogic User's Guide*.

8.4.2 Socket Direct Protocol for Exalogic Elastic Cloud Software

Exalogic Elastic Cloud can be configured to utilize socket direct protocol (SDP) as a high performance protocol for Tuxedo Network Channels and Oracle Database connectivity. For information about configuring SDP based Tuxedo Network Channels and Oracle Database connections, see *Oracle Tuxedo on Oracle Exalogic User's Guide*.

8.4.3 Tuxedo Optimization for Lock Mechanism

Exalogic Elastic Cloud Software can be configured with Tuxedo to self-tune bulletin board lock mechanism in a Tuxedo domain. This optimization is enabled when enhancement is enabled as described in *Oracle Tuxedo on Oracle Exalogic User's Guide*.

9

Oracle Business Intelligence

This chapter covers licensing for Oracle Business Intelligence products. It contains the following sections:

-

9.1 Oracle Business Intelligence Enterprise Edition

Oracle Business Intelligence Enterprise Edition licensed programs are described in the following sections:

-

9.1.1 Oracle Business Intelligence Suite Enterprise Edition Plus

Oracle Business Intelligence Suite Enterprise Edition Plus is a comprehensive suite of enterprise BI products, delivering the full range of BI capabilities including:

- Interactive dashboards and visualizations

- Proactive intelligence and alerts

- Enterprise reporting and publishing

- Ad hoc analysis and dashboard construction

- Action Framework, to initiate business processes in context of insights

In addition to providing the full range of BI functionality, Oracle Business Intelligence Suite Enterprise Edition Plus is based on a proven, modern service-oriented architecture that delivers true next-generation BI capabilities.

9.1.1.1 Included Products and Components

Table 9–1 lists and summarizes the products and components included in the license for Oracle Business Intelligence Suite Enterprise Edition Plus.

Table 9–1   Oracle Business Intelligence Suite Enterprise Edition Plus Products and Components

Product	Description
Oracle Business Intelligence Server Enterprise Edition	Common enterprise business model and abstraction layer.
Oracle Business Intelligence Answers	Ad-hoc query and reporting.
Oracle Business Intelligence Interactive Dashboards	Highly interactive dashboards for accessing business intelligence and applications content.
Oracle Business Intelligence Reporting and Publishing	High quality, high volume, production reporting. (See Section 9.2, "Oracle Business Intelligence Publisher.")
Oracle Business Intelligence Delivers	Proactive business activity monitoring and alerting.
Oracle Business Intelligence for Microsoft Office (Office Plug-in)	Integrate and leverage Oracle Business Intelligence content in Excel and PowerPoint.
Oracle Business Intelligence Publisher	Enterprise reporting and distribution of highly formatted reports.
Oracle Business Intelligence Server Administrator	Powerful data modeling interface for administrators.
	Restriction: Only one Named User Plus license is included with Oracle Business Intelligence Suite Enterprise Edition Plus. The single Named User Plus license is intended to provide the minimum functionality to install, configure and administer an Oracle BI installation. There is not one Named User Plus license of Oracle Business Intelligence Administrator per Named User Plus license of Oracle Business Intelligence Suite Enterprise Edition, nor is there one Named User Plus license of Oracle Business Intelligence Administrator per Processor license of Oracle Business Intelligence Suite Enterprise Edition. Additional licenses of Oracle Business Intelligence Administrator may be procured separately to enable additional administrators to manage Oracle BI Suite EE.
Oracle Hyperion Interactive Reporting	Intuitive and highly interactive ad-hoc reporting.
	Includes the following:
	■ Hyperion Foundation Services (including SmartView for Office Toolkit)
	■ Hyperion Impact Management Services

Table 9–1   (Cont.) Oracle Business Intelligence Suite Enterprise Edition Plus Products and Components

Product	Description
Oracle Hyperion SQR Production Reporting	High volume, presentation-quality formatted report generation. Includes the following: ■ Hyperion Foundation Services (including SmartView for Office Toolkit) ■ SAP & SAP BW Adapter for Production Reporting
Oracle Hyperion Financial Reporting	Formatted, book-quality financial and management reporting. Includes the following: ■ Hyperion Foundation Services (including SmartView for Office Toolkit) ■ SAP & SAP BW Adapter for Financial Reporting
Oracle Hyperion Web Analysis	Web-based online analytical processing (OLAP) analysis, presentation, and reporting. Includes the following: ■ Hyperion Foundation Services (including SmartView for Office Toolkit) ■ SAP & SAP BW Adapter for Web Analysis
Oracle Containers for Java EE (OC4J)	Provides a Java Enterprise Edition (Java EE) container for running the Java components of Oracle Business Intelligence. Restrictions: Restricted use license
WebLogic Server Standard Edition (for use with OBIEE)	Provides a Java Enterprise Edition (Java EE) container for running Java components of Oracle Business Intelligence. Restrictions: Restricted use license to use for Oracle Business Intelligence Server Enterprise Edition and the components that run on it. **Note**: If clustering is desired, the customer must purchase or supply WebLogic Server Enterprise Edition (or alternative Java EE server when certified for Oracle BI 11*g*)
WebLogic Server Standard Edition (for use with Hyperion Reporting Products)	Provides a Java Enterprise Edition (Java EE) container for running Java components of Oracle Hyperion reporting applications. Restrictions: Restricted use license to host Java EE or Java application logic that is distributed as part of Oracle Hyperion Interactive Reporting, Oracle Hyperion SQR Production Reporting, Oracle Hyperion Financial Reporting, and Oracle Hyperion Web Analysis.
Oracle Internet Directory	Restrictions: Restricted use of Oracle Internet Directory (restricted to storing Oracle Hyperion Interactive Reporting, Oracle Hyperion SQR Production Reporting, Oracle Hyperion Financial Reporting, and Oracle Hyperion Web Analysis user information only).

9.1.2 Oracle Business Intelligence Server Enterprise Edition

Oracle Business Intelligence Server Enterprise Edition is a true BI server that is designed to be highly scalable, optimizing concurrency and parallelism to make the value of BI applications available to the largest possible audience. It provides centralized data access and calculation, essentially creating a large pipe through which anyone can consume any information in any form anywhere in the enterprise. The Oracle Business Intelligence Server is central to all of the business processes that consume information, including dashboards, ad hoc queries, intelligent interaction capabilities, enterprise and production reporting, financial reporting, OLAP analysis, data mining, and other Web service-based applications (Java EE and .NET). All of these applications require rich access to broad sets of data across the enterprise, and they all require a sophisticated calculation and aggregation infrastructure that the platform provides to deliver value.

9.1.2.1 Included Products and Components

Table 9–2 summarizes the products and components included in the license for Oracle Business Intelligence Server Enterprise Edition.

Table 9–2   Oracle Business Intelligence Server Enterprise Edition Products and Components

Product	Description
Oracle Business Intelligence Server Enterprise Edition	Common enterprise business model and abstraction layer.
Oracle Containers for Java EE (OC4J)	Provides a Java Enterprise Edition (Java EE) container for running the Java components of Oracle Business Intelligence.
	Restrictions: Restricted use license
WebLogic Server Standard Edition	Provides a Java Enterprise Edition (Java EE) container for running Java components of Oracle Business Intelligence.
	Restrictions: Restricted use license to use for Oracle Business Intelligence Server Enterprise Edition only.
	Note: If clustering is desired, customer must purchase or supply WebLogic Server Enterprise Edition (or alternative Java EE server when certified for Oracle BI 11*g*)
Oracle Entitlements Server Basic	Provides role based access control based on authorization policies.

9.1.2.2 Options

Table 9–3 summarizes the options available for the Oracle Business Intelligence Server Enterprise Edition license.

Table 9–3   Oracle Business Intelligence Server Enterprise Edition Options

Option	Description
Oracle Business Intelligence Interactive Dashboards	Highly interactive dashboards for accessing business intelligence and applications content.[1]
Oracle Business Intelligence Delivers	Proactive business activity monitoring and alerting.[1]
Oracle Business Intelligence Answers	Ad-hoc query and reporting.[1]

Table 9–3   (Cont.) Oracle Business Intelligence Server Enterprise Edition Options

Option	Description
Oracle Business Intelligence for Microsoft Office (Office Plug-in)	Integrate and leverage BI content in Excel and PowerPoint.[1]
Oracle Reporting and Publishing (Oracle BI Publisher)	High quality production reporting.[1] Include the following: ■ Oracle Business Intelligence Publisher ■ Oracle Hyperion SQR Production Reporting

[1]   The number of options licenses must match the number of licenses of the associated Oracle Business Intelligence Server Enterprise Edition.

9.1.2.3 Additional Usage Notes and Restrictions

Business Intelligence Server and its options restricted to testing and debugging the deployment of applications developed with Oracle Business Intelligence Server Administrator.

9.1.3 Oracle Business Intelligence Suite Enterprise Edition Plus Upgrade Only

This license upgrades each Oracle Business Intelligence Suite Enterprise Edition license to Oracle Business Intelligence Suite Enterprise Edition Plus.

9.1.3.1 Included Products and Components

Table 9–4 summarizes the additional products added when the license for Oracle Business Intelligence Suite Enterprise Edition is upgraded to Oracle Business Intelligence Suite Enterprise Edition Plus.

Table 9–4   Oracle Business Intelligence Suite Enterprise Edition Plus Upgrade Only Products and Components

Product	Description	Included Products and Components
Hyperion Interactive Reporting	Intuitive and highly interactive ad-hoc reporting.	■ Hyperion Foundation Services (including SmartView for Office Toolkit) ■ Hyperion Impact Management Services
Hyperion SQR Production Reporting	High volume, presentation-quality formatted report generation.	■ Hyperion Foundation Services (including SmartView for Office Toolkit) ■ SAP & SAP BW Adapter for Production Reporting
Hyperion Financial Reporting	Formatted, book-quality financial and management reporting.	■ Hyperion Foundation Services (including SmartView for Office Toolkit) ■ SAP & SAP BW Adapter for Financial Reporting
Hyperion Web Analysis	Web-based online analytical processing (OLAP) analysis, presentation, and reporting.	■ Hyperion Foundation Services (including SmartView for Office Toolkit) ■ SAP & SAP BW Adapter for Web Analysis

Table 9–4   (Cont.) Oracle Business Intelligence Suite Enterprise Edition Plus Upgrade Only Products and Components

Product	Description	Included Products and Components
WebLogic Server Standard Edition	Provides a Java Enterprise Edition (Java EE) container for running Java components of Oracle Hyperion reporting applications. Restrictions: Restricted use license to host Java EE or Java application logic that is distributed as part of Oracle Hyperion Interactive Reporting, Oracle Hyperion SQR Production Reporting, Oracle Hyperion Financial Reporting, and Oracle Hyperion Web Analysis.	
Oracle Internet Directory	Restrictions: Restricted use of Oracle Internet Directory (restricted to storing Oracle Hyperion Interactive Reporting, Oracle Hyperion SQR Production Reporting, Oracle Hyperion Financial Reporting, and Oracle Hyperion Web Analysis user information only).	

9.1.3.2 Additional Usage Notes and Restrictions

Existing Oracle Business Intelligence Suite Enterprise Edition customers *may not* license incremental users or processors of Oracle Business Intelligence Suite, but rather must purchase Oracle Business Intelligence Suite Enterprise Edition Plus users or processors.

9.2 Oracle Business Intelligence Publisher

Oracle Business Intelligence Publisher licensed programs are described in the following topics:

- Section 9.2.1, "Oracle Business Intelligence Publisher (Standalone)"

- Section 9.2.2, "Oracle Business Intelligence Publisher within Oracle Business Intelligence Enterprise Edition and Oracle Business Intelligence Standard Edition One"

- Section 9.2.3, "Oracle Business Intelligence Publisher within Oracle E-Business Suite and other Applications"

9.2.1 Oracle Business Intelligence Publisher (Standalone)

Oracle BI Publisher is a reporting solution to author, manage, and deliver all your reports and documents easier and faster than traditional reporting tools. Use your web browser or familiar desktop tools to create everything from pixel-perfect customer facing documents to interactive management reports against practically any data source. View reports online or schedule them and deliver tens of thousands of documents per hour with minimal impact to transactional systems.

9.2.1.1 Included Products and Components

Table 9–5 summarizes the products and components included in the license for Oracle Business Intelligence Publisher.

Table 9–5   Oracle Business Intelligence Publisher Products and Components

Product	Description
Oracle Business Intelligence Publisher	Oracle Business Intelligence Publisher provides a single reporting environment to author, manage, and deliver all of your reports and business documents. Data models can be built against practically any data source from database to web service to file and more. Utilizing a set of familiar desktop tools, users can create and maintain their own report layouts based on data from these diverse sources. Reports can then be viewed on line or scheduled for delivery to a wide range of destinations.
Oracle Containers for Java EE (OC4J)	Provides a Java Enterprise Edition container for running the Java components of Oracle Business Intelligence. Restrictions: ■ Restricted Use license
WebLogic Server Standard Edition	Java EE Web Application Server Restricted to use for Business Intelligence Publisher only. **Note**: If clustering is desired, customer must purchase or supply WebLogic Server Enterprise Edition
Oracle Entitlements Server Basic	Provides role based access control based on authorization policies.

9.2.2 Oracle Business Intelligence Publisher within Oracle Business Intelligence Enterprise Edition and Oracle Business Intelligence Standard Edition One

Oracle Business Intelligence Publisher is included as the following:

■   Part of Oracle Business Intelligence Suite Enterprise Edition Plus. For more information, see Section 9.1.1, "Oracle Business Intelligence Suite Enterprise Edition Plus."

■   An option to the Oracle Business Intelligence Server Enterprise Edition (called Oracle Business Intelligence Reporting and Publishing). For more information, see Section 9.1.2, "Oracle Business Intelligence Server Enterprise Edition."

■   Part of Oracle Business Intelligence Standard Edition One. For more information, see Section 9.3, "Oracle Business Intelligence Standard Edition One."

When included with Oracle Business Intelligence Suite Enterprise Edition, Oracle Business Intelligence Standard Edition One, or as an option to Oracle Business Intelligence Server Enterprise Edition, the Oracle Business Intelligence Publisher license is a full use license. The license has no additional restrictions beyond those that are already in place for each of those products or options. For more information, see:

■   Section 9.1, "Oracle Business Intelligence Enterprise Edition"

■   Section 9.2, "Oracle Business Intelligence Publisher"

■   Section 9.3, "Oracle Business Intelligence Standard Edition One"

9.2.3 Oracle Business Intelligence Publisher within Oracle E-Business Suite and other Applications

For all Oracle E-Business Suite Applications:

■   Restricted Use: Business Intelligence Publisher to publish and/or view either or both the following:

–   Shipped Oracle Business Intelligence Publisher reports. Layout changes are allowed.

- Shipped or newly created Oracle Business Intelligence Publisher reports that are modified to access data from the existing Oracle Applications schema that has not been customized.

- A full use Business Intelligence Publisher license is required if any shipped, modified or newly created Business Intelligence Publisher report accesses data from one of the following:

  - A non-Oracle Applications data source

  - A new schema within the Oracle Applications that is not shipped by Oracle

  - A modified Oracle Applications schema (for example, by adding columns to an existing table)

For all other Oracle Applications that include Business Intelligence Publisher, see that product's documentation for Business Intelligence Publisher license restrictions. In general, if any of the following conditions exist, a full use Business Intelligence Publisher license is required:

- BI Publisher accesses any data outside the Oracle Application for which the restricted BI Publisher license is supplied.

- Any modification is made to the Oracle Applications (for example, by adding columns to an existing table).

Many Applications have tighter restrictions on their restricted use license of Business Intelligence Publisher. Please consult the Price List or Price List Supplement for the associated Application to understand the restricted use license terms.

9.3 Oracle Business Intelligence Standard Edition One

Oracle Business Intelligence Standard Edition One is a comprehensive business intelligence BI offering designed for midsize enterprises or departments in larger organizations. It includes interactive dashboards, highly formatted reporting, ad hoc query and analysis, Extract-Transform-Load (ETL), data modeling, server administration, and Oracle Database Standard Edition One—all in a single package.

Oracle Business Intelligence Standard Edition One has all the components that you need to build your mid-size or departmental BI solution. The BI components of Oracle Business Intelligence Standard Edition One are the same powerful components that are in Oracle Business Intelligence Enterprise Edition, protecting your investment as your usage requirements grow.

Oracle Business Intelligence Standard Edition One licensed programs are described in the following topics:

- Section 9.3.1, "Included Products and Components"

- Section 9.3.2, "Additional Usage Notes and Restrictions"

9.3.1 Included Products and Components

Table 9–6 summarizes the products and components included in the license for Oracle Business Intelligence Standard Edition One.

Table 9–6   Oracle Business Intelligence Standard Edition One Products and Components

Product	Description
Oracle Database Standard Edition One	Leading relational database for business intelligence and data warehousing.
Oracle Warehouse Builder (core ETL)	Oracle Warehouse Builder is an ETL tool that provides an integrated solution for designing and deploying enterprise data warehouses, data marts, and business intelligence applications.
Oracle Business Intelligence Server Enterprise Edition	Common enterprise business model and abstraction layer.
Oracle Business Intelligence Answers	Ad-hoc query and reporting.
Oracle Business Intelligence Interactive Dashboards	Highly interactive dashboards for accessing business intelligence and applications content.
Oracle Business Intelligence Server Administrator	Powerful data modeling interface for administrators. Restrictions: ■ One Named User Plus license
Oracle Business Intelligence Publisher	Enterprise reporting and distribution of highly formatted reports.

9.3.2 Additional Usage Notes and Restrictions

The following usage notes and restrictions apply:

■   You can install Oracle Business Intelligence Standard Edition One on a single machine with up to two sockets.

■   You can license Oracle Business Intelligence Standard Edition One for a minimum of 5 Named User Plus licenses and a maximum of 50 Named User Plus licenses.

■   You can use Oracle Warehouse Builder Core ETL to pull data from any number of data sources. However, you must use only the included Oracle Database Standard Edition One as the target database.

■   The data sources for Oracle Business Intelligence Server and Business Intelligence Publisher are limited to:

–   The included Oracle Database Standard Edition One

–   One other database

–   Any number of flat file sources (for example, CSV, XLS)

■   Table 9–6 shows the Oracle Business Intelligence Enterprise Edition components covered by the Oracle Business Intelligence Standard Edition One license, namely:

–   Oracle Business Intelligence Server Enterprise Edition

–   Oracle Business Intelligence Answers

–   Oracle Business Intelligence Interactive Dashboards

–   Oracle Business Intelligence Server Administrator

–   Oracle Business Intelligence Publisher

Note the Oracle Business Intelligence Standard Edition One installation installs all of the Oracle Business Intelligence Enterprise Edition components, not just those listed above. To use the additional Oracle Business Intelligence Enterprise Edition

components (for example, Oracle Business Intelligence Delivers, and Office Plug-in), you must upgrade to an Oracle Business Intelligence Enterprise Edition license.

- Oracle Business Intelligence Standard Edition One is not supported to run Oracle Business Intelligence Applications.

9.4 Oracle Real-Time Decisions

Oracle Real-Time Decisions (Oracle RTD) enables you to develop adaptive enterprise software solutions. These adaptive solutions continuously learn from business process transactions while they execute and optimize each transaction, in real time, by way of rules and predictive models.

Table 9–7 summarizes the products and components included in the license for Oracle RTD.

Table 9–7   Oracle Real-Time Decisions Products and Components

Product	Description
Real-Time Decision Server	The Real-Time Decision Server is a Java EE application that executes Inline Services. Inline Services describe the necessary business logic for the purpose of business process optimization.
	Includes the following:
	- Decision Connector for Call Center
	- Decision Connector for IVR
	- Decision Connector for Web
Decision Center	Decision Center is a Web-based application that allows the business analyst to monitor and optimize deployed Inline Services. From Decision Center, you can view statistics gathered from the models and fine-tune campaigns such as cross-selling, as well as adjust how decisions are made.
Decision Studio	Decision Studio is an Eclipse-based graphical development tool for application developers to define RTD application logic and to configure Inline Services.
Load Generator	The Load Generator is used in three situations:
	- To characterize the performance of the system under load, measuring response time and making sure the whole system, including back-end data feeds, can cope with the expected load.
	- To initialize the learnings and statistics with some significant data for demonstration purposes.
	- To process off-line batch sources—for example, when exploring previously collected data at the initial stages of a project.
Oracle Entitlements Server Basic	Provides role based access control based on authorization policies.

9.5 Oracle's Hyperion Business Intelligence Technology

Table 9–8 lists the products, components, and restrictions included in the Oracle's Hyperion Business Intelligence Technology licensed programs.

Table 9–8   Hyperion Business Intelligence Technology: Included Products and Components

Product	Description	Included Products and Components
Oracle Essbase Plus	Essbase Plus is the leading online analytical processing (OLAP) server available today. Essbase Plus provides an environment for rapidly developing custom analytic and enterprise performance management (EPM) applications that is managed by business users. Engineered for scalability, security, and rapid-response, Essbase Plus brings analytics to the business user and enables the business to quickly model complex business scenarios. Through an intuitive interface, business users can manipulate large data sets to model complex scenarios, forecast outcomes, and perform what-if analyses to identify trends and optimize business results. Together with other modules, Essbase Plus offers broad support for demanding business intelligence analytics requirements.[1,2]	■ Hyperion Foundation Services (including Smart View for Office Toolkit) ■ Essbase Analytics ■ Enterprise Analytics ■ High Availability Services ■ Application Builder.NET ■ Application Builder Java EE ■ Spreadsheet Toolkit ■ Data Integration Management Adapters for Essbase Plus
Hyperion Interactive Reporting	Hyperion Interactive Reporting provides executives, business users, and analysts with intuitive user-directed relational query capabilities. From interactive dashboards in a readily available context, to complex data modeling for fully ad hoc access to source data, Hyperion Interactive Reporting can pull together data from disparate sources to produce easy to use charts, pivot tables, highly formatted reports, and more.[1,2]	■ Hyperion Foundation Services (including Smart View for Office Toolkit) ■ Hyperion Impact Management Services
Oracle Hyperion SQR Production Reporting	Hyperion SQR Production Reporting generates high volume, presentation-quality and pixel-perfect formatted reports with unparalleled performance regardless of the type and number of disparate sources. Hyperion SQR Production Reporting delivers its comprehensive enterprise reporting capabilities through a graphical report creation environment and a powerful 4GL reporting language (called SQR) for advanced reporting and data processing.[1,2]	■ Hyperion Foundation Services (including Smart View for Office Toolkit) ■ SAP & SAP BW Adapter for Production Reporting
Oracle Hyperion Financial Reporting	Hyperion Financial Reporting enables book-quality financial management and reporting targeted at meeting the unique requirements of the Finance department or any functional area that requires very highly formatted multidimensional reporting.[1,2]	■ Hyperion Foundation Services.[1] (including Smart View for Office Toolkit) ■ SAP BW Adapter for Financial Reporting
Hyperion Web Analysis	Hyperion Web Analysis delivers powerful, intuitive, Web-based interactive analytics to all corners of the enterprise. A highly graphical and easy-to-use interactive interface, it enables users to view their data in a way that makes sense to them. Hyperion Web Analysis facilitates access to packaged application and multidimensional data sources. It supports drill-through to a wide variety of relational data sources, including drill-through to URL.[1,2]	■ Hyperion Foundation Services (including Smart View for Office Toolkit) ■ SAP BW Adapter for Web Analysis

Table 9–8 (Cont.) Hyperion Business Intelligence Technology: Included Products and Components

Product	Description	Included Products and Components
WebLogic Server Standard Edition	Provides a Java Enterprise Edition (Java EE) container for running Java components of Oracle Hyperion reporting applications.	
	Restrictions: Restricted use license to host Java EE or Java application logic that is distributed as part of Oracle Essbase, Oracle Hyperion Interactive Reporting, Oracle Hyperion SQR Production Reporting, Oracle Hyperion Financial Reporting, and Oracle Hyperion Web Analysis.	
Oracle Internet Directory	Restrictions: Restricted use of Oracle Internet Directory (restricted to storing Oracle Essbase, Oracle Hyperion Interactive Reporting, Oracle Hyperion SQR Production Reporting, Oracle Hyperion Financial Reporting, and Oracle Hyperion Web Analysis user information only).	

[1] Customers with legacy Hyperion pre-System 9 product licenses must pay a Foundation Enablement migration fee to migrate to the corresponding Oracle Hyperion licenses, which include Hyperion Foundation Services.

[2] The minimums for all products are 25 Named User Plus licenses or 4 Processor licenses.

9.6 Oracle Scorecard and Strategy Management

Oracle Scorecard and Strategy Management enables you to map organization strategy to goals and monitor via Key Performance Indicators. When separately licensed, it works as an integrated component of Oracle BI Server and the presentation services of Oracle BI Enterprise Edition.

The restricted use license of WebLogic Server Standard Edition that comes with Oracle BI Server Enterprise Edition may be used with Oracle Scorecard and Strategy Management.

9.7 Oracle Business Intelligence Mobile

Oracle Business Intelligence Mobile extends Oracle BI Enterprise Edition capabilities to mobile clients such as Apple iPhone and iPad.

9.8 Oracle Disconnected Analytics

Oracle Disconnected Analytics enables the Oracle BI Enterprise Edition capabilities and user experience on a disconnected laptop. It includes data synchronization capabilities that can be integrated with Siebel CRM.

Disconnected Analytics is only available with Oracle BI 10*g* and is not available with Oracle BI 11*g*.

9.9 Oracle Business Intelligence Administrator

Oracle Business Intelligence Administrator provides a powerful data modeling interface for administrators and developers.

One Named User Plus license is included with Oracle Business Intelligence Server Enterprise Edition, Oracle Business Intelligence Suite Enterprise Edition Plus and Oracle BI Foundation Suite. The single Named User Plus license is intended to provide the minimum functionality to configure and administer metadata for an Oracle BI

installation. There is not one Named User Plus license of Oracle Business Intelligence Administrator per Named User Plus license of Oracle Business Intelligence Suite Enterprise Edition, nor is there one Named User Plus license of Oracle Business Intelligence Administrator per Processor license of Oracle Business Intelligence Suite Enterprise Edition.

Oracle Business Intelligence Administrator allows organizations to purchase additional licenses of Oracle Business Intelligence Administrator to enable additional administrators to manage Oracle BI Suite EE.

9.10 Oracle Business Intelligence Data Integration Products

Oracle Business Intelligence Data Integration products are licensed together with Oracle BI technology for the exclusive use of Oracle BI technology and Oracle BI Applications.

Table 9–9   Oracle Business Intelligence Data Integration Products

Product	Description
Oracle Data Integrator	A comprehensive data integration platform that covers all data integration requirements.[1]
	Restriction: This option may only be used for loading and transforming data that will be used within the Business Intelligence Suite Enterprise Edition Plus product.
	Includes the following:
	■ Data Integrator Enterprise Edition
	■ Application Adapter for Data Integrator Enterprise Edition of customers' choosing (Quantity = 1).
Informatica OEM PowerCenter ETL Server and PowerConnect Adapters	An enterprise data integration platform for accessing, discovering, and integrating data from different business systems.[1], [2]
	Restriction: See [2].
	Includes the following:
	■ Informatica OEM PowerCenter ETL Server with Team-Based Development
	■ Data Warehouse Business Adapter for PeopleSoft (Informatica OEM PowerConnect for PeopleSoft)
	■ Data Warehouse Business Adapter for SAP (Informatica OEM PowerConnect for SAP R/3)

[1] The number of options licenses must match the number of licenses of the associated Oracle Business Intelligence Suite Enterprise Edition Plus or Oracle Business Intelligence Foundation Suite.

[2] The Informatica license is subject to the following terms and conditions: Informatica OEM PowerCenter ETL Server and PowerConnect Adapters may not be used on a standalone basis or as a standalone ETL tool. The Informatica OEM Power Center ETL Server and PowerConnect Adapters may be used with any data source provided the target(s) are: (i) the Oracle Business Intelligence applications programs (excluding Hyperion Financial Performance Management Applications), (ii) the underlying platforms on which the Oracle Business Intelligence Suite Enterprise Edition Plus program, Oracle Business Intelligence Standard Edition One or associated components run, or (iii) a staging database for any of the foregoing. Informatica OEM Power Center ETL Server and PowerConnect Adapters may also be used where the Oracle Business Intelligence applications (excluding Hyperion Financial Performance Management Applications) programs are the source and non-Oracle Business Intelligence application programs are the target, provided that users do not use Informatica OEM PowerCenter ETL Server and PowerConnect Adapters to transform the data.

9.11 Oracle Business Intelligence Foundation Suite

Oracle Business Intelligence Foundation Suite is Oracle's strategic Business Intelligence product, which combines all the necessary components to implement an Intelligent Decision Cycle to Detect, Analyze, Model and Act. Combining principally Oracle BI Enterprise Edition and Oracle Essbase, BI Foundation Suite provides

best-in-class capabilities for Relational OLAP and Multi-dimensional OLAP, with an integrated suite of BI tools. Additionally, it includes legacy Hyperion reporting products to enable a smooth transition to Oracle's most strategic BI solutions.

Table 9–10 summarizes the products and components included in the license for Oracle BI Foundation Suite.

Table 9–10   Oracle Business Intelligence Foundation Suite Products and Components

Product	Description
Oracle Business Intelligence Suite Enterprise Edition Plus	Oracle Business Intelligence Suite Enterprise Edition Plus is a comprehensive suite of enterprise BI products, delivering the full range of BI capabilities including: ■ Interactive dashboards and visualizations ■ Proactive intelligence and alerts ■ Enterprise reporting ■ Ad hoc analysis and dashboard construction ■ Action Framework, to initiate business processes in context of insights Also included are Hyperion Reporting products: ■ Oracle Hyperion Interactive Reporting ■ Oracle Hyperion SQR Production Reporting ■ Oracle Hyperion Financial Reporting ■ Oracle Hyperion Web Analysis ■ Oracle Hyperion Smart View
Oracle Essbase Plus	Essbase Plus is the leading online analytical processing (OLAP) server available today. Essbase Plus provides an environment for rapidly developing custom analytic and enterprise performance management (EPM) applications that is managed by business users. Engineered for scalability, security, and rapid-response, Essbase Plus brings analytics to the business user and enables the business to quickly model complex business scenarios. Through an intuitive interface, business users can manipulate large data sets to model complex scenarios, forecast outcomes, and perform what-if analyses to identify trends and optimize business results. Together with other modules, Essbase Plus offers broad support for demanding business intelligence analytics requirements.
Oracle Scorecard and Strategy Management	Oracle Scorecard and Strategy Management enables you to map organization strategy to goals and monitor via Key Performance Indicators.
Oracle Business Intelligence Mobile	Oracle Business Intelligence Mobile extends Oracle BI Enterprise Edition capabilities to mobile clients such as Apple iPhone and iPad.
Essbase Analytic Link for Hyperion Financial Management	Provides an integration between Hyperion Financial Management and Essbase to perform a data synchronization between HFM and Essbase to facilitate time-sensitive what-if analysis during financial close cycles.

9.12 Oracle Business Intelligence Management Pack

Oracle Business Intelligence Management Pack is a comprehensive, integrated management solution in Oracle Enterprise Manager that helps you achieve high levels of performance and availability, and reduce the costs of managing your Oracle Business Intelligence Enterprise Edition applications.

The Oracle Enterprise Manager Business Intelligence Management Pack provides an integrated solution for ensuring the performance and availability of Oracle Business Intelligence Enterprise Edition (Oracle BI EE) 10*g*. Using the pack, you can receive proactive alerts on impending problems for the application, examine run-time statistics to troubleshoot and tune performance, compare configurations across

different environments, and keep track of configuration changes to avoid configuration-related problems.

You can use the pack with other Oracle Enterprise Manager management packs and plug-ins to achieve end-to-end management of the entire application environment, including both Oracle and non-Oracle databases, operating systems, storage, and network devices.

Oracle Business Intelligence Management Pack is only supported with Oracle Business Intelligence Enterprise Edition 10*g*. Oracle Business Intelligence 11*g* includes certain Oracle Enterprise Manager functionality in the base Oracle BI product.

The minimums for this product are 25 Named User Plus licenses. The number of options licenses must match the number of licenses of the associated Business Intelligence Server Enterprise Edition. If licensing as an option to Business Intelligence Suite Enterprise Edition Plus, the number of options licenses must match the number of licenses of the associated Business Intelligence Suite Enterprise Edition Plus. If licensing by Processor, the number of licenses may not match due to variance in core factors between the time the respective programs were licensed.

9.12.1 Installation and Licensed Links

The Oracle Enterprise Manager Business Intelligence Management Pack is available from the Oracle Enterprise Manager Cloud Control installer.

For complete license details about Business Intelligence Management Pack, see "Business Intelligence Management" in Oracle Enterprise Manager Licensing Information.

9.13 Oracle Business Intelligence Standard Edition

Oracle Business Intelligence Standard Edition is a complete integrated BI solution designed to work especially well within Oracle environments. It is integrated with other key components of Oracle Database and Oracle Fusion Middleware to deliver comprehensive BI functionality. Oracle Business Intelligence Standard Edition is also included in the Oracle Internet Application Server Enterprise Edition offering.

Included product components:

- Discoverer Plus
- Discoverer Viewer
- Discoverer Portlet Provider
- Oracle Reports Services,
- Oracle Enterprise Manager Application Server Control
- 2 iDS Named User Plus licenses per Processor restricted to Reports Builder
- Warehouse Builder
- BI Beans
- Oracle Spreadsheet Add-in
- Discoverer Administration Edition

In order to use the Oracle Business Intelligence Standard Edition offering, you must separately license Oracle Database Standard Edition (for use with Oracle Business Intelligence Discoverer Relational) or Oracle Database Enterprise Edition and the Oracle OLAP option (for use with Oracle Business Intelligence Discoverer OLAP).

In order to use the Oracle Spreadsheet Add-in, you only need to license Oracle Database Enterprise Edition with the Oracle OLAP option. You do not need to license the Oracle Business Intelligence Standard Edition offering.

9.13.1 Restricted-Use Licenses

The following restricted-use licenses are included when Oracle Business Intelligence Standard Edition is separately licensed (i.e. not as part of Oracle Application Server Enterprise Edition license).

- Oracle Internet Developer Suite is provided for use with Oracle Reports Builder and Discoverer Administration Edition only. Two Named User Plus licenses per Processor are provided. Oracle HTTP Server and its modules are provided for running Oracle Business Intelligence applications only.

- Oracle Advanced Security Option is included, with use limited strictly to the Oracle Java SSL Library.

- WebLogic Server Basic is provided as the Java EE container for deployment of Oracle Business Intelligence Applications only.

- The Oracle Database is provided for use with the Oracle Repository Creation Utility database schema for storing Discoverer metadata. Storing any other data in the Oracle Repository Creation Utility database schema requires a full use license of the Oracle Database.

9.14 Oracle Business Intelligence Discoverer Desktop

Oracle Business Intelligence Discoverer Desktop is a windows-based data access tool. It is used to view the information in company's databases. The purpose of Discoverer Desktop is to help the business professional—view the data they want from a database, analyze it to support their business decisions, and create reports to keep track of business metrics.

Discoverer Desktop can be separately licensed. It is also included with Internet Developer Suite offering.

9.15 Oracle Endeca Business Intelligence

Oracle Endeca Business Intelligence is an enterprise analytics platform for rapid, intuitive exploration and analysis of information from any combination of structured and unstructured sources. This platform enables organizations to extend their existing business analytics investments to unstructured data - such as social media, websites, content systems, files, email, database text and big data. Oracle Endeca Business Intelligence provides visibility into any source and more importantly, allows their analysis alongside traditional business intelligence source systems.

Table 9–11 summarizes the products and components included in Oracle Endeca Business Intelligence.

Table 9–11   Oracle Endeca Business Intelligence Products and Components

Oracle Endeca Information Discovery Studio	This highly-interactive, component-based environment is used for quickly and iteratively building enterprise-class analytic applications that query and display results from the Oracle Endeca Server.
Oracle Endeca Information Discovery Integrator	This set of tools enables the rapid unification and augmentation of diverse sources of information. It includes (1) Content Acquisition System for gathering content from file systems, content management systems, and websites, and (2) Integrator which provides out-of-the-box ETL tooling for integrating and enriching enterprise data.
Oracle Endeca Server	Oracle Endeca Server is the core search-analytical database that organizes complex and varied data from disparate source systems into a faceted data model that is extremely flexible and reduces the need for up-front data modeling. This highly-scalable server enables users to explore data in an unconstrained and impromptu manner and to rapidly address new questions that inevitably follow every new insight. This product leverages a restricted use of WebLogic Server Standard Edition to run the Endeca Server APIs.
Oracle Endeca Content Management System Connectors	Oracle Endeca Content Management System Connectors are add-on modules that allow for integration of content stored in various enterprise content management systems. Currently supported systems include: EMC Documentum, EMC Documentum eRoom, FileNet P8, FileNet Document & Image Services, Interwoven TeamSite, Lotus Notes/Domino, Microsoft SharePoint, and OpenText LiveLink.
Oracle Endeca Text Enrichment	Oracle Endeca Text Enrichment is an add-on module that includes text analysis capabilities for extraction of people, places, organizations, quotes, and themes as well as core summarization capabilities for automatic creation of abstracts or topical summaries.
Oracle Endeca Text Enrichment with Sentiment Analysis	Oracle Endeca Text Enrichment with Sentiment Analysis is an add-on module that includes all of the Text Enrichment capabilities as well as advanced text analysis for extraction of aggregate sentiment related to each extracted concept. Sentiment is extracted with a score indicating the positive and negative nature of a document or an entity in the document. These scores can be used within the faceted search experience by varying ranges of positivity and negativity.

9.16 Oracle Exalytics In-Memory Software

Oracle Exalytics In-Memory Software is a separately licensed product that is used with the Oracle Exalytics In-Memory Machine and Oracle products listed below.

If licensing by Named User Plus, the minimum is 20 Named User Plus licenses per Customer. Business Intelligence Foundation Suite is a licensing pre-requisite for this product. All TimesTen In-Memory Database for Exalytics users must have license entitlement to Business Intelligence Foundation Suite. The number of licenses of the Business Intelligence Foundation Suite needs to match the number of licenses of this product.

If licensing by Named User Plus, the minimum is 20 Named User Plus licenses per Customer. The licensing prerequisites for this product are Business Intelligence Foundation Suite or Business Intelligence Suite Enterprise Edition Plus or Business Intelligence Foundation Suite for Oracle Applications or Business Intelligence Suite Enterprise Edition Plus for Oracle Applications and/or Essbase Plus and/or Hyperion Planning Plus.

Table 9–12   Oracle Exalytics In-Memory Software Features

Feature	Description	Product/Component
Summary Advisor for Oracle Business Intelligence Server	Summary Advisor monitors Business Intelligence usage patterns, analyzes them and recommends the optimal data mart for best overall performance improvement.	Oracle Business Intelligence Administrator
Aggregate Persistence (CREATE AGGREGATES, and DELETE AGGREGATES commands) when run against the TimesTen In-Memory Database for Exalytics	The Aggregate Persistence feature enables automated creation of data marts by using Business Intelligence server commands.	Oracle Business Intelligence Server
Exalytics-specific optimizations enabled by "Oracle Hardware acceleration" flags for Oracle Business Intelligence Server	Optimizations to match system architecture resulting in higher query throughput, lower latencies in query processing. Enhanced memory usage for cache.	Oracle Business Intelligence Server
Enhanced Bursting within Oracle Business Intelligence Publisher	Enables piped document generation. Enabled by setting OPTIMIZE_BURST flag in xmlp-server-config.xml file	Oracle Business Intelligence Publisher
Exalytics-specific optimizations enabled by "Oracle Hardware acceleration" flags for Oracle Business Intelligence Presentation Server	Optimized default configuration to use large footprint memory to speed up page rendering and caching.	Oracle Business Intelligence Server
Exalytics-specific optimizations enabled by "Oracle Hardware acceleration" flags for Oracle Essbase Plus	Memory usage optimizations for loading entire data into memory, concurrency improvements to match Exalytics architecture enabling efficient distribution of processing.	Oracle Essbase Plus

10

Oracle WebCenter

This chapter describes licensing for Oracle WebCenter products. It contains the following sections:

- Section 10.1, "The Oracle WebCenter Product Family"

- Section 10.2, "Oracle Management Pack for WebCenter"

- Section 10.3, "Additional Considerations for the Restricted Use Licenses Included in Oracle WebCenter Portal"

- Section 10.4, "WebCenter Licensing with Oracle Internet Application Server"

- Section 10.5, "WebCenter Sites Option Licensing Considerations"

- Section 10.6, "Oracle WebCenter Content Conversion included in Oracle WebCenter Content"

- Section 10.7, "Oracle WebCenter Real-Time Collaboration"

- Section 10.8, "High Availability Considerations"

10.1 The Oracle WebCenter Product Family

The following tables describe the functionality provided by members of the Oracle WebCenter product family. Table 10–1 describes the functionality provided by the core products. Table 10–2 describes the functionality provided by the adapters.

Table 10–1 Oracle WebCenter Product Family: Core Products

Product	Description	Included Features
Oracle WebCenter Suite Plus	Complete product suite for Enterprise Portals, Content Management, Web Experience Management, and Collaboration.	**WebCenter Suite Plus includes:** - WebCenter Content - WebCenter Portal - WebCenter Sites - Management Pack for WebCenter

Table 10–1   (Cont.) Oracle WebCenter Product Family: Core Products

Product	Description	Included Features
Oracle WebCenter Content	Oracle WebCenter Content bundles Oracle's solutions for Contents Management, Records Management, and Imaging, providing a complete solution for customers seeking to implement an enterprise-wide content management system.	**WebCenter Content includes:** ■ Content Management ■ Records Management ■ Imaging ■ Java SE. For Details on Java SE Editions, see http://www.oracle.com/technetwork/java/javase/terms/products/index.html. **Content Management features:** ■ Document Management ■ Digital Asset Management (DAM) ■ Web Content Management (WCM) ■ Desktop Integration Suite ■ Oracle WebCenter Content Conversion ■ Content Server ■ Content Server System Components ■ Content Server Standard Components: Document Management, Web Content Management, Folders, Inbound Refinery, Integration: BPELIntegration, Integration: SESCrawlerExport, Integration: IPMRepository, Integration: WebCenterConfigure **Imaging features:** ■ WebCenter Imaging **Records Management features:** ■ Records Management: Installation Level: Minimal, Installation Level: Typical, Installation Level: DoD Baseline, Installation Level: DoD Classified, Installation Level: Custom **Restricted Use Licenses included:** ■ Restricted Use: WebCenter Content includes use of SOA Suite for Oracle Middleware restricted to BPEL Process Manager, Business Rules, Business Activity Monitoring and Web Services Manager for modeling, securing, executing and monitoring processes that are initiated from WebCenter Content components only. ■ Restricted Use: Unified Business Process Management Suite for modeling, executing and monitoring processes that are initiated from WebCenter Content Components only. ■ Restricted Use: Oracle WebLogic Server Enterprise Edition as host for only WebCenter Content, including run-time components to provide Java runtime environment and HTTP support, as well as configuration and administration components used for the setup and management of these run-time components ■ Restricted Use: Oracle Secure Enterprise Search to be installed and run on the same processor(s) that runs the content management repository and may be used to index and search the local instance of the content management repository. Federation to external servers or other data resources not permitted.

Table 10–1   (Cont.) Oracle WebCenter Product Family: Core Products

Product	Description	Included Features
Oracle WebCenter Portal	Oracle WebCenter Portal bundles Oracle's solutions for transactional Web sites, enterprise portals, team collaborative workspaces, and composite applications, providing a complete solution for customers seeking to implement these across the enterprise.	**WebCenter Portal includes:** ■ WebCenter Portal ■ WebCenter Spaces ■ WebCenter Framework ■ WebCenter Web 2.0 Services, including blogs, wikis, and discussion forums. ■ WebCenter Analytics ■ WebCenter Content adapter ■ WebCenter Ensemble ■ BPEL Worklist ■ JSR 168 Container ■ Oracle Portlet Bridge ■ WebLogic Portal ■ GroupWare Portlets for Lotus Notes and Microsoft Exchange ■ WebCenter Interaction ■ WebCenter Collaboration ■ WebCenter Application Accelerator for .NET ■ WebCenter Console for Microsoft SharePoint ■ WebCenter Content Services for Lotus Notes, Microsoft Exchange, EMC Documentum, and Microsoft Files ■ WebCenter Interaction Container for WSRP ■ WebCenter Interaction Identity Service ■ WebCenter Web Control Consumer for .NET ■ Oracle Entitlements Server Basic: Provides role based access control based on authorization policies **Restricted Use Licenses included:** ■ Restricted Use: WebCenter Content (restricted to managing documents, Web Content (WCM), Digital Assets (DAM), and other content management components for content delivery as part of a WebCenter portal or application). ■ Restricted Use: Secure Enterprise Search (solely for use with WebCenter Portal to search and index content delivered through a WebCenter portal or application). ■ Restricted Use: SOA Suite (restricted to BPEL Process Manager for running workflows/processes delivered as part of a WebCenter portal or application and OWSM for securing authentication between WebCenter Portal components). ■ Restricted Use: Oracle Access Manager for enabling Single-Sign On (SSO) between WebCenter Portal components. Use of Oracle Access Manager to a) enable SSO for any custom services or functions or third party applications; b) Direct Oracle Access Manager SDK calls; or c) Third party directory integration, is not allowed. ■ Restricted use of Oracle Internet Directory ■ Restricted use of WebLogic Communication Services and Oracle Communications Presence

Table 10–1   (Cont.) Oracle WebCenter Product Family: Core Products

Product	Description	Included Features
Oracle WebCenter Sites	Comprehensive web content management (WCM) solution that enables organizations to deliver a compelling web experience by building, deploying, and managing large-scale, persuasive, and interactive web sites	**WebCenter Sites includes:** ■ Analytics ■ Community Server ■ Content Integration Platform ■ Content Server ■ CS-Engage ■ Gadget Server ■ Language Packs ■ Satellite Server **Restricted Use Licenses included:** ■ Restricted Use: WebCenter Content restricted to managing documents, Web Content (WCM), Digital Assets (DAM), and other content management components for content delivery as part of a Web site.
Oracle WebCenter Sites for Oracle ATG Web Commerce	Comprehensive web content management (WCM) solution that enables organizations to deliver a compelling web experience by building, deploying, and managing large-scale, persuasive, and interactive web sites with ATG Web Commerce	**WebCenter Sites for Oracle ATG Web Commerce includes:** ■ Oracle WebCenter Sites Note that Oracle WebCenter Sites for Oracle ATG Web Commerce can only be used to serve content to ATG, either by delivering it to ATG Web Commerce or by delivering it directly to the end user browser. In addition, WebCenter Sites for ATG Web Commerce can only be used to serve content to Web sites that are also being served by ATG Web Commerce under a common fully qualified domain name. Any content delivered for a standalone Web site (e.g. a marketing Web site) or to a separate fully qualified domain name not being served by ATG Web Commerce requires a full-use license of WebCenter Sites.
Oracle WebCenter Sites Mobile Option	Mobile Option for Oracle WebCenter Sites and Oracle WebCenter Sites for Oracle ATG Web Commerce	■ Mobile Device Detection ■ Mobile Device Group Management (including all features in the Mobility tab of the Admin UI) ■ Mobile Device Group Navigation ■ Website Previews for Mobile Device Skins ■ Mobile Template Variants (including using suffix extensions on templates)

Table 10–1 (Cont.) Oracle WebCenter Product Family: Core Products

Product	Description	Included Features

Oracle WebCenter Universal Content Management	Oracle WebCenter Universal Content Management provides a unified application for delivering document management, Web content management (WCM), digital asset management (DAM), and retention management.
	
	Oracle WebCenter Universal Content Management includes restricted use Oracle BPEL Process Manager for creating workflows/processes within and between WebCenter Content, WebCenter Records, WebCenter Imaging, WebCenter Content Conversion, and WebCenter Universal Content Management only.
	
	Oracle WebCenter Universal Content Management includes restricted use of Oracle Outside In Technology. Outside In Technology program libraries can only be accessed from WebCenter Universal Content Management — either using standard WebCenter Universal Content Management features or using custom components running on WebCenter Universal Content Management. Outside In libraries cannot be accessed directly from any other application under this license.
	
	Oracle WebCenter Universal Content Management includes restricted use of WebLogic Server Enterprise Edition as host for only Oracle WebCenter Universal Content Management, including run-time components to provide Java run-time environment and HTTP support, as well as configuration and administration components used for the setup and management of these run-time components.
	
	Oracle WebCenter Universal Content Management also includes restricted use of Oracle Secure Enterprise Search to be installed and run on the same processor(s) that runs the content management repository and may be used to index and search the local instance of thecontent
	
	management repository. Federation to external server or other data resources is not permitted.
		Included products:
		■ Oracle WebCenter Content Conversion
		■ Restricted Use Oracle BPEL Process Manager
		■ Restricted Use Oracle WebLogic Server Enterprise Edition
		■ Oracle Java SE
		■ Restricted Use Oracle Secure Enterprise Search
		
		Included features:
		■ Desktop Integration Suite
		■ Content Server
		■ Content Server System Components
		■ Content Server Standard Components:
		    ■ Document Management
		    ■ Web Content Management
		    ■ Folders
		    ■ Inbound Refinery
		    ■ Integration: BPELIntegration
		    ■ Integration: SESCrawlerExport
		    ■ Integration: IPMRepository
		    ■ Integration: WebCenterConfigure
		■ Records Management:
		    ■ Installation Level: Minimal
		    ■ Installation Level: Typical

Table 10–1   (Cont.) Oracle WebCenter Product Family: Core Products

Product	Description	Included Features
Oracle WebCenter Imaging	Oracle WebCenter Imaging provides imaging and business process management capabilities for enterprise applications, such as accounts payable and human resources, as well as for business applications, such as loan origination and claims processing.	**WebCenter Imaging includes:** ■ Content Server System Components ■ Content Server Standard Components: Content Tracker, Content Tracker Reports ■ Content Server ■ WebCenter Imaging Server **Restricted Use Licenses included:** ■ Restricted Use: WebCenter Imaging includes use of SOA Suite for Oracle Middleware restricted to BPEL Process Manager, Business Rules, Business Activity Monitoring and Web Services Manager for modeling, securing, executing and monitoring processes that are initiated from WebCenter Imaging components only. ■ Restricted Use: Unified Business Process Management Suite for modeling, executing and monitoring processes that are initiated from WebCenter Imaging. ■ Restricted Use: Oracle Internet Application Server Enterprise Edition for the following purposes only: (a) Run-time components to provide Java runtime environment and HTTP support, as well as configuration and administration components used for the setup and management of these runtime components. and (b) Run-time and design-time components to display and customize screens provided with WebCenter Imaging ■ Restricted Use: WebCenter Content for the storage of documents originating from WebCenter Imaging. Specific components included with this license are: Content Server, Content Tracker, and Oracle Secure Enterprise Search. ■ Restricted Use: Oracle WebLogic Server Enterprise Edition as host for only WebCenter Imaging, including run-time components to provide java runtime environment and http support, as well as configuration and administration components used for the setup and management of these run-time components

Table 10–2   Oracle WebCenter Product Family: Adapters

Product	Description	Included Features
Oracle WebCenter Adapter	Third party application adapters.	**Separately licensed adapters available for:** ■ EMC Documentum ■ IBM FileNet ■ IBM Lotus Domino ■ Microsoft SharePoint ■ Symantec Enterprise Vault
Oracle WebCenter Adapter Framework	Technology and operating system adapters	**Separately licensed adapters available for:** ■ Enterprise Application Adapter Framework ■ File System ■ Java ■ Microsoft .NET
Oracle WebCenter Applications Adapter	Enterprise applications adapters	**Separately licensed adapters available for:** ■ E-Business Suite ■ PeopleSoft ■ Siebel

10.2 Oracle Management Pack for WebCenter

This pack delivers comprehensive management for WebCenter environments and provides comprehensive modeling for WebCenter Portal environments running in Oracle WebLogic Server as well as the underlying Java EE components.

For complete license details about Management Pack for WebCenter, see "Oracle Middleware Enterprise Management" in *Oracle Enterprise Manager Licensing Information*. This document is available from the Oracle Enterprise Manager Documentation page at http://www.oracle.com/technetwork/oem/grid-control/documentation/index.html.

10.3 Additional Considerations for the Restricted Use Licenses Included in Oracle WebCenter Portal

The following are additional considerations to the restricted use licenses described in Table 10–1:

■ **Secure Enterprise Search** allows you to search and index any content stored in the content repository, as well as any page delivered as part of a WebCenter Portal application or portal. If a page includes portlets, the information delivered within the portlet can be indexed as part of the search results as well. However, searching and indexing *all* of the information in the backend system that supplies portlet content requires a full use license of Secure Enterprise Search.

■ **WebCenter Content** can be used to store all content that is delivered as part of any WebCenter Portal web site, application, or portal. This includes base content management features, such as versioning and rendering different renditions of content, as well as indexing content in the repository for integration with search results within the site, portal, or application. This also includes full feature usage of the Web Content Management (WCM), Digital Asset Management (DAM), and other UCM components for content delivered via WebCenter Portal. All

interactions can be done through the WebCenter Portal portal interface, a custom application, Desktop integrations, or the UCM user interface including administration activities.

- **Oracle SOA Suite** is restricted to Oracle Web Services Manager (OWSM) and Oracle BPEL Process Manager.

    - OWSM is restricted to securing authentication between WebCenter Portal components. This includes using OWSM security policies when interacting with WebCenter Web service interfaces. Authoring and management tooling is limited to the capabilities delivered with the base Oracle WebCenter Portal console screens. New policies may be authored with command line and scripting tools only. The use of OWSM is further limited to enforcing message-level security between WebCenter Portlet Producers and consumers and securing interactions between WebCenter services, BPEL Process Manager, and Discussion server. Any other use outside of OWSM requires a full use license of SOA Suite.

    - BPEL Process Manager is restricted to running existing deployed processes and responding to requests that require user input delivered inside of a WebCenter Portal application or portal. However, the ability to define, deploy, and run new BPEL processes is allowed provided that all process endpoints exist entirely within WebCenter Portal delivered components. The modification of document BPEL processes included with the content repository can also be integrated with existing BPEL processes. The pre-built BPEL portlet and taskflows, which enable viewing of a user's worklist items from any combination of backend BPEL servers, is also included. Any other use outside of BPEL Process Manager requires a full use license of either BPEL Process Manager or SOA Suite.

        > **Note:** Oracle BPEL Process Manager bundles UDDI client libraries from the HP SOA Systinet Registry. Such libraries and UDDI client functionality are licensed only to the end user for the purpose of connecting to and communicating with the Oracle Service Registry.

- **WebLogic Server Enterprise Edition** is a prerequisite to WebCenter Portal. Customers can leverage WebLogic Server SAML support to enable Single Sign-On for WebCenter applications or portals and WebCenter Portal delivered components.

- **Oracle Internet Directory (OID)** and **Oracle Wallet** are included for use with WebCenter Portal applications or portals and WebCenter Portal components with the following restrictions:

    - The use of OID is restricted to storing credentials and policies specific to WebCenter Portal and its delivered components.

    - The use of file-based Oracle Wallet is restricted to storing credentials specific to WebCenter Portal and its delivered components.

- **Oracle WebLogic Communication Services (OWLCS)** and **Oracle Communications Presence (OCP)** are included for development and evaluation purposes only. OWLCS can be used to set and display presence information and enable text chat functionality within WebCenter Portal applications or portals. OCP provides a central repository of real-time presence states for users over various communications networks. OWLCS and OCP are restricted to development and non-production systems only.

10.4 WebCenter Licensing with Oracle Internet Application Server

Customers who have previously licensed Oracle Internet Application Server as a pre-requisite for WebCenter Services or WebCenter Portal have the right to use WebLogic Server Basic to run WebCenter Services and WebCenter Portal as part of their existing Oracle Internet Application Server Standard Edition or Enterprise Edition license. This right is only for products within WebCenter Services and WebCenter Portal that were previously certified against Oracle Internet Application Server. WebLogic Server Basic cannot be used to run the following: WebLogic Portal, WebCenter Interaction, WebCenter Collaboration, WebCenter Ensemble, WebCenter Analytics, Oracle WebCenter Console for Microsoft SharePoint, and Oracle WebCenter Application Accelerator for .NET. Instead, a separate WebLogic Server license is required to run these. WebLogic Server Basic is defined in Appendix A, "WebLogic Server Basic."

10.5 WebCenter Sites Option Licensing Considerations

WebCenter Sites Options must match the number of licenses of the associated WebCenter product. When licensing the Option for WebCenter Sites for Oracle ATG Web Commerce the number of licenses of the Option must match the deployed Processors of WebCenter Sites for Oracle ATG Web Commerce.

10.6 Oracle WebCenter Content Conversion included in Oracle WebCenter Content

Oracle WebCenter Content Conversion provides content conversion services in support of Content Server.

WebCenter Content Conversion includes Java SE. For details on Java SE Editions, see http://www.oracle.com/technetwork/java/javase/terms/products/index.html.

Included features:

- Inbound Refinery
- Inbound Refinery Standard Components

Restricted Use Licenses included:

- Restricted Use: Oracle Outside In Technology. Outside In Technology program libraries can only be accessed from WebCenter Content Conversion—either using standard Content Conversion features or using custom components running on WebCenter Content Conversion. Outside In libraries cannot be accessed directly from any other application under this license.

- Restricted Use: Oracle WebLogic Server Enterprise Edition as a host only for WebCenter Content Conversion to provide java runtime environment and http support, as well as configuration and administration for the setup and management WebCenter Content Conversion.

10.7 Oracle WebCenter Real-Time Collaboration

Oracle WebCenter Real-Time Collaboration enables users to connect and collaborate with others via web and voice conferencing, instant messaging, presence, and chat rooms. It complements other Enterprise 2.0 services available in WebCenter by connecting users who require direct interaction and immediate response.

For licensing details, see "Oracle WebCenter Licenses" in *Oracle Beehive Licensing Information* at the following URL:

`http://download.oracle.com/docs/cd/E16671_`
`01/bh.200/e16646/beehivelicensing.htm`

10.8 High Availability Considerations

Oracle WebCenter products have high availability features that require special licensing considerations. These considerations are similar to the licensing considerations for the high availability features of the Oracle Database and WebLogic Server.

10.8.1 Cold Failover Clusters

Failover clusters use a two or more node hardware cluster for failover. Failover is the process by which the hardware clusters automatically relocate the execution of an application from a failed primary node to a designated standby node.

The primary node is the processor that is actively executing one or more content management services at any given time. If the primary node fails, the hardware cluster automatically fails the content management services over to the standby node.

When using cold failover clusters, ten days of failover per calendar year are included in the license for the primary node. If you use more than ten days of failover per calendar year, additional server licenses are required for the standby nodes.

Cold Failover Cluster licensing applies to:

- WebCenter Content
- WebCenter Portal
- WebCenter Sites

11

Oracle Identity and Access Management Independent License Offerings

This chapter describes the separately licensed Oracle Identity and Access Management independent license offerings.

The following sections describe the Oracle Identity and Access Management products and product families that can be separately licensed, independent of the packaged Oracle Application Server or WebLogic editions.

- Section 11.1, "Oracle Enterprise Identity Services Suite"
- Section 11.2, "Oracle Identity Governance Suite"
- Section 11.3, "Oracle Entitlements Server"
- Section 11.4, "Oracle Entitlements Server Security Module"
- Section 11.5, "Oracle Directory Services Plus"
- Section 11.6, "Oracle Access Manager"
- Section 11.7, "Oracle Identity Federation"
- Section 11.8, "Oracle Identity Manager"
- Section 11.9, "Oracle Identity Manager Connectors"
- Section 11.10, "Oracle Enterprise Single Sign-On Suite Plus"
- Section 11.11, "Oracle Access Management Suite Plus"
- Section 11.12, "Oracle API Gateway"
- Section 11.13, "Oracle Identity and Access Management Suite Plus"
- Section 11.14, "Oracle Mobile Security Suite"
- Section 11.15, "Oracle Secure Mail Manager"
- Section 11.16, "Oracle Management Pack Plus for Identity Management"
- Section 11.17, "Oracle Database License Requirements"

You may not use the options, packs, or products described below without separately purchased licenses. The fact that these options, packs, or products may be included in product CDs or downloads or described in documentation that you receive does not authorize you to use them without purchasing the appropriate licenses.

See Section 11.17, "Oracle Database License Requirements," for important license requirements regarding the use of Oracle Database with the products described in this chapter.

11.1 Oracle Enterprise Identity Services Suite

Oracle Enterprise Identity Services Suite can be separately licensed, independent of any Oracle Application Server or WebLogic edition. It includes:

- Oracle Identity Governance Suite
- Oracle Access Management Suite Plus
- Oracle Directory Services Plus
- Oracle Mobile Security Suite

11.2 Oracle Identity Governance Suite

Oracle Identity Governance Suite can be separately licensed, independent of any Oracle Application Server or WebLogic edition. It includes:

- Identity Analytics (includes Identity Auditor)
- Identity Manager
- Privileged Account Manager
- Identity Manager Connector for Database User Management, Identity Manager Connectors for Microsoft Active Directory, Identity Manager Connector for Microsoft Windows, Identity Manager Connector for Microsoft Exchange, Identity Manager Connector for Novell eDirectory, Identity Manager Connector for Oracle Internet Directory, Identity Manager Connector for Sun Java System Directory, Identity Manager Connector for Oracle Directory Server Enterprise Edition, Identity Manager Connector for Oracle Unified Directory, Identity Manager Connector for Web Services, and Identity Manager Connector for UNIX

The following restricted-use licenses are included when you separately license Oracle Identity Governance Suite:

- Restricted Use: Oracle Internet Application Server Enterprise Edition or WebLogic Enterprise Edition as host for only all components licensed under Identity Governance Suite, including run-time components to provide java runtime environment and http support, as well as configuration and administration components used for the setup and management of these run-time components.
- Restricted Use: Business Intelligence Publisher to publish and/or view:
  1. Shipped BI Publisher reports. Layout changes are allowed, AND
  2. Shipped or newly created BI Publisher reports that are modified to access data from the existing Identity Management schema that has not been customized.
- Restricted Use: BPEL Process Manager for creating workflows where Identity Analytics is one of the endpoints. Note: Oracle BPEL Process Manager bundles UDDI client libraries from the HP SOA Systinet Registry. Such libraries and UDDI client functionality are licensed only to the end user for the purpose of connecting to and communicating with the Oracle Service Registry.
- A license to Oracle Identity Governance Suite (IGS) includes a restricted-use license to Oracle Advanced Security (OAS), with OAS restricted to its Transparent Data Encryption component used solely for encrypting passwords for the Oracle Privileged Account Manager component of IGS. OAS is separately installed as a component of Oracle Database Enterprise Edition (DB EE). You have no further rights to use OAS or DB EE unless you have separately licensed those products.

11.3 Oracle Entitlements Server

Oracle Entitlements Server can be separately licensed, independent of any Oracle Application Server or WebLogic edition. For using Oracle Entitlements Server, a license of Oracle Entitlements Server Security Module is required.

11.3.1 Restricted-Use Licenses

The following restricted-use licenses are included when you separately license Oracle Entitlements Server:

- Restricted Use: Business Intelligence Publisher to publish and/or view:
  - Shipped BI Publisher reports. Layout changes are allowed, AND
  - Shipped or newly created BI Publisher reports that are modified to access data from the existing Identity Management schema that has not been customized.

- Oracle Internet Application Server Enterprise Edition or WebLogic Enterprise Edition as host for only Oracle Entitlements Server, including run-time components to provide Java run-time environment and HTTP support, as well as configuration and administration components used for the setup and management of these run-time components.

11.4 Oracle Entitlements Server Security Module

Oracle Entitlements Server Security Module can be separately licensed, independent of any Oracle Application Server or WebLogic edition.

Note that to use the Oracle Entitlements Server Security Module, you need to license Oracle Entitlements Server or Oracle Access Management Suite Plus (which includes Oracle Entitlements Server).

11.5 Oracle Directory Services Plus

Oracle Directory Services Plus can be separately licensed, independent of any Oracle Application Server or WebLogic edition. It includes:

- Oracle Directory Server Enterprise Edition

- Oracle Internet Directory (including Delegated Administration Services and Directory Integration Platform). These components are described in Section 2.3.2.2.2, "Oracle Identity Management."*

- Oracle Unified Directory*

- Oracle Virtual Directory*

- Oracle Authentication Services for Operating Systems (OAS4OS). OAS4OS is certified to work with Oracle Internet Directory (OID) only.

* Includes usage of Oracle Directory Services Manager.

11.5.1 Restricted-Use Licenses

The following restricted-use licenses are included when you separately license Oracle Directory Services Plus:

- Oracle Single Sign-On is provided for authentication services to users accessing Oracle Delegated Administration Services only.

- Restricted Use: Business Intelligence Publisher to publish and/or view:

    – Shipped BI Publisher reports. Layout changes are allowed, AND

    – Shipped or newly created BI Publisher reports that are modified to access data from the existing Identity Management schema that has not been customized.

- Oracle Internet Application Server Enterprise Edition or WebLogic Enterprise Edition as host for only Oracle Directory Services Plus, including run-time components to provide Java run-time environment and HTTP support, as well as configuration and administration components used for the setup and management of these run-time components.

- Oracle Database Standard Edition. This infrastructure database is only to be used for storing LDAP related data related to the use of Internet Directory as a general purpose LDAP directory. Storing any other data in the infrastructure database requires a full use license of Oracle Database Standard Edition.

11.6 Oracle Access Manager

Oracle Access Manager can be separately licensed, independent of any Oracle Application Server or WebLogic edition.

11.6.1 Restricted-Use Licenses

The following restricted-use licenses are included when you separately license Oracle Access Manager:

- Restricted Use: Business Intelligence Publisher to publish and/or view:

    – Shipped BI Publisher reports. Layout changes are allowed, AND

    – Shipped or newly created BI Publisher reports that are modified to access data from the existing Identity Management schema that has not been customized.

- Oracle Internet Application Server Enterprise Edition or WebLogic Enterprise Edition as host for only Oracle Access Manager, including run-time components to provide Java run-time environment and HTTP support, as well as configuration and administration components used for the setup and management of these run-time components.

- Oracle Identity Manager and associated Identity Manager LDAP Connectors (Microsoft AD, Novell eDirectory, Oracle Internet Directory, and Sun Java System Directory) are restricted to managing users in a directory specific to the following:

    – Self-service registration

    – Self-service user profile view and/or modify

    – Self-service password reset

    – Lost password management (setting up challenge questions)

    – Password reset on first login

    – Password policy enforcement (password strength, expiration period, and so on)

    – Password expiration notification

    – Delegated administration of administrative capabilities (down to the attribute level) to lower level administrators to manage users in the system

■ Oracle Coherence Enterprise Edition (restricted to run in the same JVM as Oracle Access Manager) for user session, configuration, and policy synchronization within Oracle Access Manager. Any other use, including running Oracle Coherence Enterprise Edition on a separate processor, triggers a full use license.

11.6.2 Oracle Access Manager Clients

The license for Oracle Access Manager provides unrestricted use of Access Manager WebGates, which are web server plug-ins that intercept requests from users for resources and forwards these requests to the Access Manager server for authentication and authorization. This license also provides unrestricted use of Access Manager authentication provider for application servers.

11.7 Oracle Identity Federation

Oracle Identity Federation can be separately licensed, independent of any Oracle Application Server or WebLogic edition. It includes Oracle OpenSSO Fedlet.

11.7.1 Restricted-Use Licenses

The following restricted-use licenses are included when you separately license Oracle Identity Federation:

■ Restricted Use: Business Intelligence Publisher to publish and/or view:

– Shipped BI Publisher reports. Layout changes are allowed, AND

– Shipped or newly created BI Publisher reports that are modified to access data from the existing Identity Management schema that has not been customized.

■ Oracle Internet Application Server Enterprise Edition or WebLogic Enterprise Edition as host for only Oracle Identity Federation, including run-time components to provide Java run-time environment and HTTP support, as well as configuration and administration components used for the setup and management of these run-time components.

11.8 Oracle Identity Manager

Oracle Identity Manager can be separately licensed, independent of any Oracle Application Server or WebLogic edition and includes Identity Connector Server.

11.8.1 Restricted-Use Licenses

The following restricted-use licenses are included when you separately license Oracle Identity Manager:

■ Restricted Use: Business Intelligence Publisher to publish and/or view:

– Shipped BI Publisher reports. Layout changes are allowed, AND

– Shipped or newly created BI Publisher reports that are modified to access data from the existing Identity Management schema that has not been customized.

■ Oracle Internet Application Server Enterprise Edition or WebLogic Enterprise Edition as host for only Oracle Identity Manager, including run-time components to provide Java run-time environment and HTTP support, as well as configuration and administration components used for the setup and management of these run-time components.

- Restricted use license of BPEL Process Manager for creating approval workflows, reviewing and approving approval tasks, invoking and consuming external web services and Java code, and performing endpoint routing and selection only for Oracle Identity Manager.

- Restricted Use: Oracle Identity Manager product includes use of Oracle Entitlements Server product solely for defining and managing authorization policies for Oracle Identity Manager

11.9 Oracle Identity Manager Connectors

Oracle Identity Manager Connectors can be separately licensed, independent of any Oracle Application Server or WebLogic edition. Oracle Identity Manager Connectors require Oracle Identity Manager.

Available Identity Manager Connectors are:

- BMC Remedy Ticketing

- BMC Remedy User Management

- CA ACF2

- CA Top Secret

- Database Applications Table

- Database User Management

- Google Apps

- IBM Lotus Notes/Domino

- IBM OS/400

- IBM RACF

- JDEdwards EnterpriseOne

- Microsoft Active Directory

- Microsoft Exchange

- Microsoft Windows

- Novell eDirectory

- Novell Groupwise

- Oracle CRM On Demand

- Oracle Directory Server Enterprise Edition

- Oracle e-Business

- Oracle Internet Directory

- Oracle Retail

- Oracle Unified Directory

- PeopleSoft Enterprise Applications

- RSA Authentication Manager

- RSA ClearTrust

- SAP Enterprise Applications

- SAP Enterprise Portal

- Siebel Enterprise Applications

- Sun Java System Directory

- UNIX

- Web Services

11.10 Oracle Enterprise Single Sign-On Suite Plus

Oracle Enterprise Single Sign-On Suite Plus (ESSO Suite Plus) can be separately licensed, independent of any Oracle Application Server or WebLogic Server edition. ESSO Suite Plus includes the following integrated components:

- Oracle Enterprise Single Sign-On Anywhere

- Oracle Enterprise Single Sign-On Authentication Manager

- Oracle Enterprise Single Sign-On Kiosk Manager

- Oracle Enterprise Single Sign-On Logon Manager

- Oracle Enterprise Single Sign-On Password Reset

- Oracle Enterprise Single Sign-On Provisioning Gateway

- Oracle Enterprise Single Sign-On Universal Authentication Manager

- Oracle Access Portal

11.10.1 Restricted-Use Licenses

- The Oracle Traffic Director portion of the Oracle Access Portal is restricted to the following features: High Availability Virtual IP, Access Manager WebGate, and Origin Server Load Balancing to WebLogic Server.

- A license to Oracle Enterprise Single Sign-On Suite Plus (ESSO Suite Plus) includes a restricted-use license for Oracle Business Intelligence Publisher (BI Publisher), Oracle Internet Application Server Enterprise Edition (IASEE) or Oracle WebLogic Server Enterprise Edition (WLSEE) and Oracle Access Manager.

  – Use of Oracle Access Manager is restricted to use with Oracle Access Portal.

  – Use of Oracle Business Intelligence Publisher (BI Publisher) is restricted to publishing and/or viewing:

    * Included BI Publisher reports. Layout changes are allowed; AND

    * Included or newly created BI Publisher reports that are modified to access data from the existing Oracle Identity Management schema that has not been customized.

  – Oracle Internet Application Server Enterprise Edition or Oracle WebLogic Server Enterprise Edition may be used solely as host for Oracle Access Manager, including run-time components to provide Java run-time environment and HTTP support, as well as configuration and administration components used for the setup and management of those run-time components.

11.11 Oracle Access Management Suite Plus

Oracle Access Management Suite Plus (AMSP) can be separately licensed, independent of any Oracle Application Server or WebLogic edition. AMSP includes the following integrated components:

- Oracle Access Manager

- Oracle Adaptive Access Manager (includes Adaptive Authentication Service feature)

- Oracle Identity Federation

- Oracle Entitlements Server

- Oracle OpenSSO Fedlet

- Oracle Security Token Service (STS)

- Oracle Mobile and Social

- Oracle Access Portal

11.11.1 Restricted-Use Licenses

- The Oracle Traffic Director portion of the AMSP is restricted to the following features: High Availability Virtual IP, Access Manager WebGate, and Origin Server Load Balancing to WebLogic Server.

- A license to Oracle Access Management Suite Plus (AMSP) includes a restricted-use license for Oracle Business Intelligence Publisher (BI Publisher), Oracle Internet Application Server Enterprise Edition (IASEE) or Oracle WebLogic Server Enterprise Edition (WLSEE), Oracle Web Services Manager (OWSM) and Oracle User Messaging Service (OUMS).

  - Use of Oracle Business Intelligence Publisher (BI Publisher) is restricted to publishing and/or viewing:

    * Included BI Publisher reports. Layout changes are allowed; AND

    * Included or newly created BI Publisher reports that are modified to access data from the existing Identity Management schema that has not been customized.

  - Oracle Internet Application Server Enterprise Edition or WebLogic Server Enterprise Edition may be used solely as host for AMSP, including run-time components to provide Java run-time environment and HTTP support, as well as configuration and administration components used for the setup and management of these run-time components.

  - Use of OWSM to protect web services must be performed in conjunction with at least one of the other components within AMSP (i.e., one or more of the following:

    * Authentication — OWSM requires integration with Oracle Access Manager for authentication.

    * Authorization — OWSM requires integration with Oracle Entitlements Server for authorization.

    * Federation — OWSM requires integration with Oracle Identity Federation for federation.

* OWSM agents acting as a WS-Trust client to the OpenSSO or Oracle STS server.

- Use of Oracle User Messaging Service (OUMS) is restricted to messaging needs related to Oracle Adaptive Access Manager security features. Message delivery is available in all formats including SMS, email, IM, and voice for the following:

    * Delivery of the Oracle Adaptive Access Manager one-time password authentication.

    * Delivery of transaction confirmation messages.

    * Security alerts to administrators/investigators.

11.12 Oracle API Gateway

Oracle API Gateway can be licensed independently of any edition of Oracle Internet Application Server or Oracle WebLogic Server. Oracle API Gateway includes the following components:

- Oracle API Gateway Admin Node Manager

- Oracle API Gateway Node Manager

- Oracle API Gateway Policy Studio

- Oracle API Gateway Manager

- Oracle API Gateway Analytics

- Oracle API Gateway Explorer

Oracle API Gateway has license prerequisites of Database Standard Edition, or Database Enterprise Edition, or SOA Suite for Oracle Middleware, or Service Bus, or Access Management Suite Plus, or Access Manager, or Entitlements Server.

11.13 Oracle Identity and Access Management Suite Plus

Oracle Identity and Access Management Suite Plus can be separately licensed, independent of any Oracle Application Server or WebLogic edition. It includes:

- Oracle Access Manager

- Oracle Directory Services Plus (see Section 11.5, "Oracle Directory Services Plus")

- Oracle Identity Federation

- Oracle Identity Manager

- Oracle OpenSSO Fedlet

- Oracle Security Token Service (STS)

- Oracle Single Sign-On (see Section 2.3.2.2.2, "Oracle Identity Management")

11.13.1 Restricted-Use Licenses

The following restricted-use licenses are included when you separately license Oracle Identity and Access Management Suite Plus:

- Restricted Use: Business Intelligence Publisher to publish and/or view:

    - Shipped BI Publisher reports. Layout changes are allowed, AND

- Shipped or newly created BI Publisher reports that are modified to access data from the existing Identity Management schema that has not been customized.

- Oracle Internet Application Server Enterprise Edition or WebLogic Enterprise Edition as host for only Identity and Access Management Suite, including run-time components to provide Java run-time environment and HTTP support, as well as configuration and administration components used for the setup and management of these run-time components.

- Oracle Database Standard Edition. This infrastructure database is only to be used for storing LDAP related data related to the use of Internet Directory as a general purpose LDAP directory. Storing any other data in the infrastructure database requires a full use license of Oracle Database Standard Edition.

> **Note:** If an included product (for example, Oracle Access Manager) comes with restricted-use licenses, the restricted-use licenses still apply when you separately license Oracle Identity and Access Management Suite Plus.

11.14 Oracle Mobile Security Suite

Oracle Mobile Security Suite can be separately licensed, independent of the packaged Oracle Internet Application Server Enterprise Edition (IASEE) or Oracle WebLogic Server Enterprise Edition (WLSEE). It includes:

- Mobile Security Container

- Mobile Security Containerization Tool

- Mobile Security Access Server

- Mobile Security File Manager

- Mobile Security Notification Server

- Mobile Security Administrative Console

11.14.1 Restricted Use Licenses

- Restricted Use: A license to Oracle Mobile Security Suite includes a restricted-use license for Oracle Access Management Suite Plus (AMSP) restricted to the Oracle Mobile and Social component.

- Restricted Use: A license to Oracle Mobile Security Suite includes a restricted-use license for WebLogic Server Enterprise Edition (WLSEE). WLSEE may be used solely as host for the Oracle Mobile and Social component in AMSP to provide Java runtime environment components and administration components used for the setup and management of these run-time components.

- Restricted Use: A license to Oracle Mobile Security Suite includes a restricted-use license for Business Intelligence Publisher (BI Publisher). Use of BI Publisher is restricted to the Oracle Mobile and Social component in AMSP to publish and/or view:

  - Included BI Publisher reports. Layout changes are allowed; AND

  - Included or newly created BI Publisher reports that are modified to access data from the existing Oracle Identity Management schema that has not been customized.

11.15 Oracle Secure Mail Manager

Oracle Secure Mobile Mail Manager can be separately licensed, independent of the packaged Oracle Internet Application Server Enterprise Edition or Oracle WebLogic Server Enterprise Edition.

11.16 Oracle Management Pack Plus for Identity Management

The Management Pack for Identity Management enables enterprises to proactively monitor the availability, performance, load, and security metrics of various Identity Management components. This pack helps improve performance and availability, and reduce the cost and complexity of managing Identity Management deployments, including the following environments:

- Directory Integration Platform

- Oracle Access Manager

- Oracle Adaptive Access Manager

- Oracle Directory Server Enterprise Edition (formerly Sun Java Directory Server Enterprise Edition)

- Oracle Identity Federation

- Oracle Identity Manager

- Oracle Internet Directory

- Oracle Unified Directory

- Oracle Virtual Directory

Management Pack Plus for Identity Management includes a restricted use license of Real User Experience Insight. The Key Performance Indicators (KPI) Tracking and Reporting, Complete User Experience Monitoring and Service Modeling components of Real User Experience Insight (RUEI) are limited to use with Identity Management Products for Single Sign On (SSO).

For complete license details about Management Pack for Identity Management, see "Identity Management Enterprise Management" in *Oracle Enterprise Manager Licensing Information*. This document is available from the Oracle Enterprise Manager Documentation page at
http://www.oracle.com/technetwork/oem/grid-control/documentation/index.html.

11.17 Oracle Database License Requirements

Storing any data other than the Oracle Repository Creation Utility database schema in the Oracle Application Server Infrastructure database requires a full use license of the Oracle Database (Standard Edition, Standard Edition One, or Enterprise Edition).

11.17.1 Full Use License of Oracle Database Standard Edition or Standard Edition One

Some examples of the kinds of data that require the purchase of a full use license for the Oracle Database Standard Edition or Standard Edition One include:

- Documents or any other objects stored in the Oracle Database under Oracle Content Management SDK

- Documents or any kind of content stored in the Portal Repository

■ Oracle Integration B2B

■ Any BPEL Process Manager process instance data, which includes using Oracle Database as the dehydration store

■ Any other custom data that is created or updated by an application

11.17.2 Full Use License of Oracle Database Enterprise Edition

Two kinds of data require the purchase of a full use license of the Oracle Database Enterprise Edition:

■ Any Oracle Portal that leverages the VPD functionality of the database for hosting

■ Any LDAP data related to the use of an Oracle Internet Directory LDAP Directory, and database replication is used

11.17.3 When is a Full Use License of Oracle Database Not Required?

The following scenarios do not require the purchase of a full use license of the Oracle Database when you purchase Oracle Internet Application Server:

■ If you are only using Oracle Web Cache

■ If you are using Oracle Business Intelligence Discoverer only against a non-Oracle database

■ If you are using Oracle Reports Services only against a non-Oracle database

12

Oracle Application Specific Technology Products

Oracle Application Specific Technology products are designated by the suffix "for Oracle Applications" and are limited use programs. The current set of Oracle Application Specific Technology products includes the following:

- Oracle Application Management Pack for Oracle Fusion Applications
- Oracle BPEL Process Manager for Oracle Applications
- Oracle Business Intelligence Foundation Suite for Oracle Applications
- Oracle Business Intelligence Publisher for Oracle Applications
- Oracle Business Intelligence Suite Enterprise Edition Plus for Oracle Applications
- Oracle Coherence Enterprise Edition for Oracle Applications
- Oracle Data Integrator Enterprise Edition for Oracle Applications
- Oracle GoldenGate for Oracle Applications
- Oracle Identity and Access Management Suite Plus for Oracle Applications
- Oracle SOA Suite for Oracle Middleware for Oracle Applications
- Oracle Unified Business Process Management Suite for Oracle Applications
- Oracle WebCenter Imaging for Oracle Applications
- Oracle WebCenter Portal for Oracle Applications
- Oracle WebLogic Suite for Oracle Applications
- Endeca Information Discovery for Oracle Applications
- Oracle In-Memory Database Cache for Oracle Applications
- Berkeley DB – High Availability for Oracle Applications
- Berkeley DB – Transactional Data Store for Oracle Applications
- Berkeley DB Java Edition—High Availability for Oracle Applications
- Berkeley DB Java Edition—Transactional Data Store for Oracle Applications

These limited use programs may only be used with "eligible" Oracle application programs and have additional licensing requirements.

For more details see the Applications Licensing Table at the following URL:

http://www.oracle.com/us/corporate/pricing/application-licensing-table-070571.pdf

13

Base Oracle Enterprise Manager Cloud Control Functionality

The base installation of Oracle Enterprise Manager Cloud Control 12c includes several features free of charge with the purchase of any Oracle software license or Support contract. For the list of features that are included with the base functionality of Oracle Enterprise Manager Cloud Control 12c, refer to *Chapter 10: Base Enterprise Manager Functionality* in the Oracle Enterprise Manager Cloud Control 12c Licensing Information documentation available on the Oracle Technology Network (OTN) at the following URL:

http://docs.oracle.com/cd/E24628_01/license.121/e24474/ch10_base_functionality.htm#BGBFJBHH

A

WebLogic Server Basic

This appendix describes WebLogic Server Basic and the WebLogic Server functionality that is available in the WebLogic Server Basic license. The following topics are included:

- Section A.1, "WebLogic Server Basic Overview"
- Section A.2, "Installation of WebLogic Server Basic"
- Section A.3, "Restricted Primary Services in WebLogic Server"
- Section A.4, "Restricted WebLogic Web Services Features"
- Section A.5, "Restricted Tooling Features"
- Section A.6, "Restricted APIs"
- Section A.7, "Feature Usage Measurement"

A.1 WebLogic Server Basic Overview

WebLogic Server Basic is a license-constrained version of WebLogic Server that is available in licenses for the following Oracle products:

- Oracle Internet Application Server Standard Edition
- Oracle Forms and Reports
- Oracle Business Intelligence Standard Edition

The license for each edition of Oracle Internet Application Server and for Oracle Forms and Reports enables the right to full use of the WebLogic Server Basic license.

> **Note:** All editions of the products Oracle Internet Application Server and Oracle Forms and Reports Server include rights to WebLogic Server Basic. WebLogic Server Basic is only for running components provided within these products such as Forms, Reports, Discoverer and Portal. It can also be used for custom Java applications such as those developed for Oracle Containers for J2EE. Products outside of Oracle Internet Application Server and Oracle Forms and Reports that have licensing dependencies on any edition of Oracle Internet Application Server or Oracle Forms and Reports do not have the right to run those products on WebLogic Server Basic unless stated specifically within their licensing documentation.

The WebLogic Server Basic license includes usage rights, with the limitations summarized in Table A–1, to the following WebLogic Server features:

- Core WebLogic application server

- Java Platform, Enterprise Edition (Java EE)

- WebLogic Server management tools, including the Administration Console and WebLogic Scripting Tool

- WebLogic JDBC Drivers, WebLogic Server Clients, and WebLogic and Apache Web Server Plug-Ins

- Basic JMS messaging, deployment, and high availability functionality

- Transactional business logic with persistence with support of JPA and EJB

- Basic WebLogic Server clustering support, including load balancing, failover, and cluster management

Table A–1 summarizes the WebLogic Server features that have usage restrictions under the terms of the WebLogic Server Basic license.

Table A–1   WebLogic Server Basic License Feature Constraints

Feature Category	Summary of Restrictions in WebLogic Server Basic License
Primary services	WebLogic Server provides a number of services to assist with the construction of production architectures that are restricted, or that may not be used, in the WebLogic Server Basic license. These services fall into the following categories: ■ High availability features, such as whole server migration, service migration, custom Work Managers, and overload management ■ Deployment services and features, such as application versioning; standalone deployment of JMS, JDBC, and WLDF modules; and FastSwap ■ JMS messaging service features ■ Services such as the WebLogic Diagnostics Framework, WebLogic SNMP agents, and the WebLogic Tuxedo Connector For details about these services and restrictions on their use, see Section A.3, "Restricted Primary Services in WebLogic Server."
WebLogic Web Services	Use of the following WebLogic Web Services features is not permitted in the WebLogic Server Basic license: ■ Buffered Web Services ■ Asynchronous Web Services ■ Conversational Web Services ■ JMS transport For information about these WebLogic Web Services features and restrictions on their use, see Section A.4, "Restricted WebLogic Web Services Features."
Tooling	Use of the following tooling features is not permitted in the WebLogic Server Basic license: ■ Configuration Wizard, or the `pack` and `unpack` commands, for creating custom domains ■ Domain Template Builder, or the `pack` and `unpack` commands, for creating domain or domain extension templates ■ Recording WebLogic Server Administration Console operations as a series of WebLogic Scripting Tool (WLST) commands ■ Extending the WebLogic Server Administration Console For details about these tooling features and restrictions on their use, see Section A.5, "Restricted Tooling Features."

Table A–1   (Cont.) WebLogic Server Basic License Feature Constraints

Feature Category	Summary of Restrictions in WebLogic Server Basic License
APIs	Use of the following APIs is not permitted in the WebLogic Server Basic license: ■ Custom or CommonJ Work Manager usage outside the default WebLogic Server Work Manager ■ WebLogic JMS client for Microsoft .NET and C For details about these APIs and restrictions on their use, see Section A.6, "Restricted APIs."

A.2 Installation of WebLogic Server Basic

To install WebLogic Server Basic, use any of the WebLogic Server package or net installers as described in *Oracle WebLogic Server Installation Guide*, as appropriate for your platform. Each installer includes the core Java EE application server, Administration Console, Configuration Wizard and Upgrade Framework, WebLogic and third-party JDBC drivers, JMS, WebLogic Server clients, Web server plug-ins, UDDI and Xquery Support, WebLogic Server examples, Oracle Enterprise Pack for Eclipse, and Sun or Oracle JRockit JDKs (depending on platform).

To install WebLogic Server Basic, use any of the WebLogic Server package or net installers as described in Oracle WebLogic Server Installation Guide, as appropriate for your platform. Each installer includes the core Java EE application server, Administration Console, Configuration Wizard and Upgrade Framework, WebLogic and third-party JDBC drivers, JMS, WebLogic Server clients, Web server plug-ins, UDDI and Xquery Support, WebLogic Server examples, Oracle Enterprise Pack for Eclipse, and Sun or Oracle JRockit JDKs (depending on platform).

For a description of the individual components of WebLogic Server that may be selectively installed, see *Oracle Fusion Middleware Getting Started With Installation for Oracle WebLogic Server*.

A.3 Restricted Primary Services in WebLogic Server

The following sections describe the primary services in WebLogic Server that may not be used, or that have usage restrictions in, WebLogic Server Basic.

■ Section A.3.1, "High Availability Services"

■ Section A.3.2, "Deployment Services and Features"

■ Section A.3.3, "JMS Messaging Services"

■ Section A.3.4, "Additional Primary Services"

A.3.1 High Availability Services

Table A–2 lists and describes the high availability services that have restrictions, or that may not be used, in WebLogic Server Basic.

Table A–2   Primary Services Restricted in WebLogic Server Basic License

Feature	Description
Whole server migration	Whole server-level migration enables a migratable server instance, and all of its services, to be migrated to a different physical computer. When a migratable server becomes unavailable for any reason, for example, if it hangs, loses network connectivity, or its host computer fails—migration is automatic. Upon failure, a migratable server is automatically restarted on the same computer if possible. If the migratable server cannot be restarted on the computer where it failed, it is migrated to another computer.
	In the license for WebLogic Server Basic, whole server migration is not permitted.
	For more information about this feature, see "Whole Server Migration" in *Oracle Fusion Middleware Using Clusters for Oracle WebLogic Server*.
Service migration	In a WebLogic Server cluster, most subsystem services are hosted homogeneously on all server instances in the cluster, enabling transparent failover from one server to another. In contrast, pinned services, such as JMS-related services, the JTA Transaction Recovery Service, and user-defined singleton services are hosted on individual server instances within a cluster—for these services, the WebLogic Server migration framework supports failure recovery with service migration, as opposed to failover. Service-level migration in WebLogic Server is the process of moving the pinned services from one server instance to a different available server instance within the cluster.
	In the license for WebLogic Server Basic, the configuration and execution of automatic service-level migration is not permitted.
	For more information about this feature, see "Service Migration" in *Oracle Fusion Middleware Using Clusters for Oracle WebLogic Server*.
Managed Server cloning	WebLogic Server provides the capability of cloning an existing Managed Server instance that is part of a cluster. This capability is typically used when an administrator wants to make a duplicate copy of an existing Managed Server.
	In the WebLogic Server Basic license, the use of the WebLogic Server Administration Console for cloning a Managed Server instance is not permitted.
	For information about how to clone a Managed Server instance, see "Clone machines" in *Oracle Fusion Middleware Oracle WebLogic Server Administration Console Help*.
MAN and WAN state replication	In addition to providing HTTP session state replication across servers within a cluster, WebLogic Server provides the ability to replicate HTTP session state across multiple clusters in a Metropolitan Area Networks (MAN) or in a Wide Area Network (WAN). This improves high-availability and fault tolerance by allowing clusters to be spread across multiple geographic regions, power grids, and Internet service providers.
	Resources within a MAN are often in physically separate locations, but are geographically close enough that network latency is not an issue. Network communication in a MAN generally has low latency and fast interconnect. Clusters within a MAN can be installed in physically separate locations which improves availability. Resources in a WAN are frequently spread across separate geographical regions. In addition to requiring network traffic to cross long distances, these resources are often separated by multiple routers and other network bottle necks. Network communication in a WAN generally has higher latency and slower interconnect.
	Slower network performance within a WAN makes it difficult to use a synchronous replication mechanism like the one used within a MAN. WebLogic Server provides failover across clusters in WAN by using an asynchronous data replication scheme.
	In the license for WebLogic Server Basic, the use of either the MAN and WAN state replication type is not permitted.
	For more information about this feature, see "Session State Replication Across Clusters in a MAN/WAN" in *Oracle Fusion Middleware Using Clusters for Oracle WebLogic Server*.

Table A–2   (Cont.) Primary Services Restricted in WebLogic Server Basic License

Feature	Description
Singleton service	Within an application, or as a standalone artifact, you can define a singleton service that can be used to perform tasks that you want to be executed on only one member of a cluster at any give time. A singleton service is active on exactly one server in the cluster at a time and processes requests from multiple clients. A singleton service is generally backed by private, persistent data, which it caches in memory. It may also maintain transient state in memory, which is either regenerated or lost in the event of failure. Upon failure, a singleton service must be restarted on the same server or migrated to a new server.
	In the license for WebLogic Server Basic, the configuration of either a standalone or application-provided singleton service is not permitted.
	For more information about singleton services, see "Service Migration" in *Oracle Fusion Middleware Using Clusters for Oracle WebLogic Server*.
Cluster constraints deployment	The default cluster deployment behavior ensures homogeneous deployment for all clustered server instances that can be reached at the time of deployment. However, if the Administration Server cannot reach one or more clustered servers due to a network outage, those servers do not receive the deployment request until the network connection is restored.
	It is possible to change WebLogic Server default deployment behavior for clusters by setting the `ClusterConstraintsEnabled` option when starting the WebLogic Server domain. This option enforces strict deployment for all servers configured in a cluster. A deployment to a cluster succeeds only if all members of the cluster are reachable and all can deploy the specified files.
	In the license for WebLogic Server Basic, the use of cluster constraints deployment is not permitted.
	For more information about cluster constraints deployment, see "Enforcing Consistent Deployment to All Configured Cluster Members" in *Oracle Fusion Middleware Deploying Applications to Oracle WebLogic Server*.
Overload management	WebLogic Server has features for detecting, avoiding, and recovering from overload conditions. WebLogic Server overload protection features help prevent the negative consequences—degraded application performance and stability—that can result from continuing to accept requests when the system capacity is reached.
	In the license for WebLogic Server Basic, the configuration of any overload protection scheme at either a cluster or server level is not permitted.
	For more information about overload management, see "Avoiding and Managing Overload" in *Oracle Fusion Middleware Configuring Server Environments for Oracle WebLogic Server*.
Server ADMIN and STANDBY mode	The series of states through which a WebLogic Server instance can transition is called the *server life cycle*. At any time, a WebLogic Server instance is in a particular operating state. Two states in which WebLogic Server can be started include the following: ■ ADMIN — WebLogic Server is up and running, but available only for administration operations, allowing you to perform server and application-level administration tasks. ■ STANDBY — WebLogic Server does not process any request; its regular Listen Port is closed. The Administration Port is open and accepts life cycle commands that transition the server instance to either the RUNNING or the SHUTDOWN state. Other administration requests are not accepted. Starting a server instance in STANDBY is a method of keeping it available as a "hot" backup, a useful capability in high-availability environments.
	In the license for WebLogic Server Basic, starting a WebLogic Server instance in either ADMIN or STANDBY state is not permitted.
	For more information about these operating states, see "Understanding Server Life Cycle" in *Oracle Fusion Middleware Managing Server Startup and Shutdown for Oracle WebLogic Server*.

Table A–2   (Cont.) Primary Services Restricted in WebLogic Server Basic License

Feature	Description
GridLink data sources, also known as Active GridLink for RAC	A single GridLink data source provides connectivity between WebLogic Server and an Oracle Database service targeted to an Oracle RAC cluster. It uses the Oracle Notification Service (ONS) to adaptively respond to state changes in an Oracle RAC instance.
	In the license for WebLogic Server Basic, the configuration and usage of GridLink data sources are not permitted.
	For more information about GridLink data sources, see "Using GridLink Data Sources" in *Configuring and Managing JDBC Data Sources for Oracle WebLogic Server*.

A.3.2 Deployment Services and Features

Table A–3 lists and describes the deployment services and features that have restrictions, or that may not be used, in WebLogic Server Basic.

Table A–3   WebLogic Deployment Features Restricted in WebLogic Server Basic License

Feature	Description
Production redeployment	Production redeployment strategy involves deploying a new version of an updated application alongside an older version of the same application. WebLogic Server automatically manages client connections so that only new client requests are directed to the new version. Clients already connected to the application during the redeployment continue to use the older version of the application until they complete their work, at which point WebLogic Server automatically retires the older application. This capability is supported by deploying the application in Administration mode, which makes it available only through a configured Administration channel.
	In the license for WebLogic Server Basic, deploying any application that uses a version identifier is not permitted.
	For more information about this feature, see "Distributing a New Version of a Production Application" in *Oracle Fusion Middleware Deploying Applications to Oracle WebLogic Server*.
Application Administration mode	Distributing an application copies deployment files to target servers and places the application in a prepared state. You can then start the application in Administration mode, which restricts access to the application to a configured Administration channel so you can perform final testing without opening the application to external client connections or disrupting connected clients. You can start an application in Administration mode with the `-adminmode` option. After performing final testing, you can either undeploy the application to make further changes, or start the application in Production mode to make it generally available to clients.
	In the license for WebLogic Server Basic, configuring any application to start in Administration mode is not permitted.
	For more information, see in "Administration Mode for Isolating Production Applications" in *Oracle Fusion Middleware Deploying Applications to Oracle WebLogic Server*.

Table A–3   (Cont.) WebLogic Deployment Features Restricted in WebLogic Server Basic License

Feature	Description
Changing the order of deployment	You can change the deployment order for a deployed application or standalone module by setting the `AppDeploymentMBean DeploymentOrder` attribute in the Administration Console (or programmatically using the AppDeploymentMBean). The `DeploymentOrder` attribute controls the load order of deployments relative to one another—modules with lower `DeploymentOrder` values deploy before those with higher values. By default, each deployment unit is configured with a `DeploymentOrder` value of 100. Deployments with the same `DeploymentOrder` value are deployed in alphabetical order using the deployment name. In all cases, applications and standalone modules are deployed after the WebLogic Server instance has initialized dependent subsystems. In the license for WebLogic Server Basic, deploying an application or module with a non-default deployment order setting is not permitted. For more information about deployment order, see "Changing the Order of Deployment at Server Startup" in *Oracle Fusion Middleware Deploying Applications to Oracle WebLogic Server*.
FastSwap	Java SE 6 introduced the ability to redefine a class at run time without dropping its ClassLoader or abandoning existing instances. This allows containers to reload altered classes without disturbing running applications, vastly speeding up iterative development cycles and improving the overall development and testing experiences. The usefulness of the Java EE dynamic class redefinition is severely curtailed, however, by the restriction that the shape of the class—its declared fields and methods—cannot change. The purpose of FastSwap is to remove this restriction in WebLogic Server, allowing the dynamic redefinition of classes with new shapes to facilitate iterative development. With FastSwap, Java classes are redefined in-place without reloading the ClassLoader, thereby having the decided advantage of fast turnaround times. This means that you do not have to wait for an application to redeploy and then navigate back to wherever you were in the Web page flow. Instead, you can make your changes, auto compile, and then see the effects immediately. In the license for WebLogic Server Basic, deploying an application in which FastSwap is enabled is not permitted. For more information about FastSwap, see "Using FastSwap Deployment to Minimize Redeployment" in *Oracle Fusion Middleware Deploying Applications to Oracle WebLogic Server*.
WebLogic JMS and JDBC module deployment	Standalone JDBC, JMS, and WLDF application modules can be deployed similar to standalone Java EE modules. For a standalone JDBC, JMS, or WLDF application module, the target list determines the WebLogic Server domain in which the module is available. JNDI names specified within an application module are bound as global names and available to clients. For example, if you deploy a standalone JDBC application module to a single-server target, applications that require resources defined in the JDBC module can only be deployed to the same server instance. You can target application modules to multiple servers, or to WebLogic Server clusters to make the resources available on additional servers. In the license for WebLogic Server Basic, the standalone deployment of WebLogic JDBC, JMS and WLDF modules is not permitted. For more information, see "Deploying JDBC, JMS, and WLDF Application Modules" in *Oracle Fusion Middleware Deploying Applications to Oracle WebLogic Server*.

A.3.3 JMS Messaging Services

Table A–4 lists and describes the JMS messaging services and features that have restrictions, or that may not be used, in WebLogic Server Basic.

Table A–4   JMS Messaging Services Features Restricted in WebLogic Server Basic License

Feature	Description
Message Unit-of-Order	Message Unit-of-Order is a WebLogic Server value-added feature that enables a standalone message producer, or a group of producers acting as one, to group messages into a single unit with respect to the processing order. This single unit is called a Unit-of-Order and requires that all messages from that unit be processed sequentially in the order they were created.
	In the license for WebLogic Server Basic, changing the default Unit-of-Order for a message producer is not permitted.
	For more information about this feature, see "Using Message Unit-of-Order" in *Oracle Fusion Middleware Programming JMS for Oracle WebLogic Server*.
Unit-of-Work Message Groups	Many applications need an even more restricted notion of a group than provided by the Message Unit-of-Order (UOO) feature. If this is the case for your applications, WebLogic JMS provides the Unit-of-Work (UOW) Message Groups, which allows applications to send JMS messages, identifying some of them as a group and allowing a JMS consumer to process them as such. For example, a JMS producer can designate a set of messages that need to be delivered to a single client without interruption, so that the messages can be processed as a unit. Further, the client will not be blocked waiting for the completion of one unit when there is another unit that is already complete.
	In the license for WebLogic Server Basic, changing the default value of the `UnitOfWorkHandlingPolicy` value for a JMS resource is not permitted.
	For more information about this feature, see "Using Unit-of-Work Message Groups" in *Oracle Fusion Middleware Programming JMS for Oracle WebLogic Server*.
JMS Store-and-Forward agents	The WebLogic Store-and-Forward (SAF) client provides a mechanism whereby standalone clients can reliably send JMS messages to server-side JMS destinations, even when the SAF client cannot reach the JMS destination due to a network connection failure (for example, a temporary blip or a network failure). While disconnected, messages sent by a SAF client are stored locally on the client and are forwarded to server-side JMS destinations once the client is reconnected.
	In the license for WebLogic Server Basic, configuring any SAF agents is not permitted.
	For more information about this feature, see "Configuring SAF for JMS Messages" in *Oracle Fusion Middleware Configuring and Managing Store-and-Forward for Oracle WebLogic Server*.

A.3.4 Additional Primary Services

Table A–5 lists and describes additional services and components that have restrictions, or that may not be used, in WebLogic Server Basic.

Table A–5   Additional Services Restricted in WebLogic Server Basic License

Component or Feature	Description
WebLogic Diagnostics Framework	The WebLogic Diagnostic Framework (WLDF) is a monitoring and diagnostic framework that defines and implements a set of services that run within WebLogic Server processes and participate in the standard server life cycle. Using WLDF, you can create, collect, analyze, archive, and access diagnostic data generated by a running server and the applications deployed within its containers. This data provides insight into the run-time performance of servers and applications and enables you to isolate and diagnose faults when they occur.
	In the license for WebLogic Server Basic, the use of WLDF is not permitted.
	For more information about the WebLogic Diagnostic Framework (WLDF), see "What Is the WebLogic Diagnostic Framework?" in *Oracle Fusion Middleware Configuring and Using the Diagnostics Framework for Oracle WebLogic Server*.

Table A–5   (Cont.) Additional Services Restricted in WebLogic Server Basic License

Component or Feature	Description
WebLogic Server SNMP agents	WebLogic Server SNMP agents query the WebLogic Server management system and communicate the results to managers over the SNMP protocol. The WebLogic Server management system exposes management data through a collection of managed beans (MBeans). When a WebLogic Server SNMP agent receives a request from a manager, it determines which MBean corresponds to the OID in the manager's request. Then it retrieves the data and wraps it in an SNMP response.
	In the license for WebLogic Server Basic, all SNMP agents must be disabled.
	For more information about WebLogic Server SNMP agents, see *Oracle Fusion Middleware SNMP Management Guide for Oracle WebLogic Server*.
WebLogic Tuxedo Connector	The Oracle WebLogic Tuxedo Connector provides interoperability between WebLogic Server applications and Tuxedo services. The connector allows WebLogic Server clients to invoke Tuxedo services and Tuxedo clients to invoke WebLogic Server Enterprise Java Beans (EJBs) in response to a service request.
	In the license for WebLogic Server Basic, use of Oracle WebLogic Tuxedo Connector is not permitted.
	For more information about WebLogic Tuxedo Connector, see *Oracle Fusion Middleware Tuxedo Connector Administration Guide for Oracle WebLogic Server*
WebLogic HTTP Publish-Subscribe Server	An HTTP Publish-Subscribe Server is a mechanism whereby Web clients subscribe to channels and then publish messages to these channels using asynchronous messages over HTTP.
	In the license for WebLogic Server Basic, use of the WebLogic HTTP Publish-Subscribe Server is not permitted.
	For more information about this feature, see "Using the HTTP Publish-Subscribe Server" in *Oracle Fusion Middleware Developing Web Applications, Servlets, and JSPs for Oracle WebLogic Server*.
Use of Work Managers to prioritize and optimize work	WebLogic Server prioritizes work and allocates threads based on an execution model that takes into account administrator-defined parameters and actual run-time performance and throughput.
	Administrators can configure a set of scheduling guidelines and associate them with one or more applications, or with particular application components. For example, you can associate one set of scheduling guidelines for one application, and another set of guidelines for other applications. At run time, WebLogic Server uses these guidelines to assign pending work and enqueued requests to execution threads.
	In the license for WebLogic Server Basic, the creation of either global or application-specific Work Managers to modify the default work model is not permitted.
	For more information about Work Managers, see "Understanding Work Managers" in *Oracle Fusion Middleware Configuring Server Environments for Oracle WebLogic Server*.

A.4 Restricted WebLogic Web Services Features

Table A–6 describes the WebLogic Web Services features that are not available for use under the terms of the WebLogic Server Basic license.

Table A–6   WebLogic Web Services Features Restricted in WebLogic Server Basic License

Feature	Description
Buffered Web Services	When a buffered operation is invoked by a client, the method operation goes on a JMS queue and WebLogic Server deals with it asynchronously. As with Web Service reliable messaging, if WebLogic Server goes down while the method invocation is still in the queue, it will be dealt with as soon as WebLogic Server is restarted. When a client invokes the buffered Web Service, the client does not wait for a response from the invoke, and the execution of the client can continue.
	In the license for WebLogic Server Basic, the use of buffered Web Services is not permitted.
	For more information about this feature, see "Creating Buffered Web Services" in *Oracle Fusion Middleware Programming Advanced Features of JAX-RPC Web Services for Oracle WebLogic Server*.
Asynchronous Web Services	When you invoke a Web Service synchronously, the invoking client application waits for the response to return before it can continue with its work. In cases where the response returns immediately, this method of invoking the Web Service is common. However, because request processing can be delayed, it is often useful for the client application to continue its work and handle the response later on, or in other words, use the asynchronous request-response feature of WebLogic Web Services.
	In the license for WebLogic Server Basic, the use of the asynchronous request-response feature is not permitted.
	For more information about this feature, see "Invoking a Web Service Using Asynchronous Request-Response" in *Oracle Fusion Middleware Programming Advanced Features of JAX-RPC Web Services for Oracle WebLogic Server*.
Conversational Web Services	A Web Service and the client application that invokes it may communicate multiple times to complete a single task. Also, multiple client applications might communicate with the same Web Service at the same time. Conversations provide a straightforward way to keep track of data between calls and to ensure that the Web Service always responds to the correct client.
	In the license for WebLogic Server Basic, the use of conversational Web Services is not permitted.
	For more information about this feature, see "Creating Conversational Web Services" in *Oracle Fusion Middleware Programming Advanced Features of JAX-RPC Web Services for Oracle WebLogic Server*.
JMS transport	WebLogic Web Services may be configured to use the JMS transport as an alternative to the HTTP/HTTPS connection protocol for use by WebLogic clients. Using JMS transport offers the following benefits: reliability, scalability, and quality of service. As with Web Service reliable messaging, if WebLogic Server goes down while the method invocation is still in the queue, it will be dealt with as soon as WebLogic Server is restarted. When a client invokes a Web Service, the client does not wait for a response from the invoke, and the execution of the client can continue.
	In the license for WebLogic Server Basic, the use or configuration of JMS transport in either WebLogic Web Services or WebLogic Web Services clients is not permitted.
	For more information about this feature, see "Using JMS Transport as the Connection Protocol" in *Oracle Fusion Middleware Programming Advanced Features of JAX-RPC Web Services for Oracle WebLogic Server*.

A.5 Restricted Tooling Features

Table A–7 describes the tooling features in WebLogic Server that are not available for use under the terms of the WebLogic Server Basic license.

Table A–7   WebLogic Server Tooling Features Restricted in WebLogic Server Basic

Feature	Description
Configuration Wizard, Domain Template Builder, and `pack` and `unpack` commands	The Configuration Wizard guides you through the process of creating a domain for your target environment by selecting the WebLogic Server components to include in your domain, or by using domain templates. If required, you can also customize the domain to suit your environment by adding and configuring Managed Servers, clusters, and computer definitions, or customizing predefined JDBC data sources, and JMS file store directories.
	After you create a domain and add resources and applications to it, you can use the Domain Template Builder, or `pack` and `unpack` commands, to create a custom domain or domain extension template. These templates provides a convenient means to replicate a domain, or domain extension, throughout your environment.
	In the license for WebLogic Server Basic: none of the following are permitted:
	■ Use of the Configuration Wizard to create domains based on templates not supplied by Oracle
	■ Use of the Domain Template Builder to create custom domain or domain extension templates
	■ Use of the `pack` or `unpack` commands to create custom domains, domain extension, domain templates, or domain extension templates
	For more information about these tools, see the following:
	■ *Oracle WebLogic Server Creating WebLogic Domains Using the Configuration Wizard*
	■ *Oracle WebLogic Server Creating Domain Templates Using the Domain Template Builder*
	■ *Oracle WebLogic Server Creating Templates and Domains Using the Pack and Unpack Commands*
Recording Administration Console operations	To help automate the task of configuring a domain, you can record your configuration actions in the WebLogic Server Administration Console as a series of WebLogic Scripting Tool (WLST) commands and then use WLST to replay the commands.
	In the license for WebLogic Server Basic, use of the Record element in the Administration Console tool bar is not permitted.
	For more information about this feature, see "Record WLST Scripts" in *Oracle Fusion Middleware Oracle WebLogic Server Administration Console Help*.
Extending the Administration Console	Administration Console extensions enable you to add content to the WebLogic Server Administration Console, replace content, and change the logos, styles and colors without modifying the files that are installed with WebLogic Server. For example, you can add content that provides custom monitoring and management facilities for your applications.
	In the license for WebLogic Server Basic, the modification or extension of the Administration Console is not permitted. This restriction is placed on making any additions or changes to the Administration Console using the console extension mechanism.
	For more information about this feature, see *Oracle Fusion Middleware Extending the Administration Console for Oracle WebLogic Server*.

A.6 Restricted APIs

Table A–8 describes the APIs in WebLogic Server that have restricted use under the terms of the WebLogic Server Basic license.

Table A–8   WebLogic Server APIs Restricted in WebLogic Server Basic

API	Description
Use of CommonJ Work Manager for application initiated work	WebLogic Server also provides a programmatic way of handling work from within an application. This is provided through the CommonJ API. WebLogic Server implements the `commonj.work` and `commonj.timers` packages of the CommonJ specification.
	In the license for WebLogic Server Basic, the use of CommonJ Work Manager for application initiated work is not permitted.
	For more information about this feature, see "Using CommonJ With WebLogic Server" in *Oracle Fusion Middleware Configuring Server Environments for Oracle WebLogic Server*.
WebLogic JMS clients for Microsoft .NET and C	The WebLogic JMS .NET client is a fully-managed .NET run-time library and application programming interface (API). It enables programmers to create .NET C# client applications that can access WebLogic Java Message Service (JMS) applications and resources.
	The WebLogic JMS C API is an application program interface that enables you to create C client applications that can access WebLogic JMS applications and resources. The C client application then uses the Java Native Interface (JNI), described at `http://download.oracle.com/javase/1.5.0/docs/guide/jni/index.html`, to access the client-side Java JMS classes
	In the license for WebLogic Server Basic, the use of WebLogic JMS clients for .NET and C is not permitted.
	For more information about the WebLogic JMS .NET client, see *Oracle Fusion Middleware Using the WebLogic JMS Client for Microsoft .NET for Oracle WebLogic Server*. For more information about the WebLogic JMS C API, see "WebLogic JMS C API" in *Oracle Fusion Middleware Programming JMS for Oracle WebLogic Server*.

A.7 Feature Usage Measurement

It is the end user's responsibility to ensure that the features available in WebLogic Server Basic are used in accordance with the terms of the license agreement. This section explains how the appropriate usage of license-restricted features can be easily measured, or how their usage can be prevented, to help ensure that each installation of WebLogic Server Basic is used in accordance with the terms of the license agreement.

To help with determining that WebLogic Server is being used in accordance with the WebLogic Server Basic license, a WLST script is available from My Oracle Support that you can download and run. This script is described in the following My Oracle Support article:

Doc ID: **885587.1**

Subject: **WebLogic Server Basic Feature Usage Measurement Script**

This script measures the features of a WebLogic Server installation and generates a report that provides data about the usage or configuration of restricted WebLogic Server features defined by WebLogic Server Basic. Not every license-restricted feature is measured by this script, so its coverage is not exhaustive. But it can simplify feature usage measurement of most restricted features. (None of the data gathered by this script is transmitted or reported anywhere, and the use of this script is not mandatory. It is provided only as a convenience.) You can log in to My Oracle Support at the following URL to obtain this script:

`https://support.oracle.com/CSP/ui/flash.html`

For each license-restricted feature in WebLogic Server Basic, Table A–9 provides the following information:

- A description of the specific license restriction associated with the feature. If the feature can be disabled by a specific configuration setting, this table identifies that setting.

- Whether the measurement script can confirm that the feature is being used in accordance with the WebLogic Server Basic license.

Table A–9   Methods of Determining License Compliance

Feature	Restriction and Method of Measurement
Whole server migration	This feature may not be used.
	Whole server migration must be disabled.
	You can confirm that whole server migration is disabled in a domain either by viewing Migratable Targets in the Administration Console or by examining the values of the following MBean attributes:
	■ `ServerMBean::AutoMigrationEnabled`
	■ `ClusterMBean::MigrationBasis`
	You can obtain the values of these attributes by running the measurement script.
Service migration	This feature may not be used.
	Make sure that none of the following services are configured in the domain:
	■ Server Migration framework
	■ User defined Singleton Services
	■ Migratable targets with migration policy other than manual
	■ Clustered EJB Timers
	■ JTA Transaction Recovery service
	You can determine whether these services are configured by running the measurement script.
MAN/WAN state replication	The use of either of these replication types is not permitted.
	You can confirm that these replication types are not configured by running the measurement script.
Managed Server cloning	You may not enable the **Clone** attribute, which is available in the Administration Console by navigating to the **Environment** > **Machines** page.
Singleton services	Configuring either a standalone or application-provided singleton service is not permitted.
	You can confirm that no singleton services are configured by running the measurement script.
GridLink data sources (also known as Active GridLink for RAC)	By validating the within the JDBC data source configuration files the elements `<fan-enabled>`, `<ons-node-list>` and `<ons-wallet-file>` are not configured.
Cluster constraints deployment	Setting the `ClusterConstraintsEnabled` option in a cluster is not permitted.
	You can confirm that this feature is not in use by running the measurement script.

Table A–9   (Cont.) Methods of Determining License Compliance

Feature	Restriction and Method of Measurement
Overload management	Configuring any of the following overload protection schemes at either a cluster or server level is not permitted:
	■ Limiting requests in the thread pool. You may not change the value of the **Shared Capacity For Work Managers** attribute in the Administration Console from the default value of 65536.
	■ Limiting HTTP sessions. You may not use `<max-in-memory-sessions>` in the `<session-descriptor>` element of the Web application deployment descriptor file.
	■ Exiting on "Out of Memory" exceptions. You may not configure this, either in the Administration Console or by editing the `config.xml` file.
	■ Stuck thread handling. You may not configure WebLogic Server to exit if all application threads are stuck.
	You can confirm this feature is not used by running the measurement script.
Server ADMIN and STANDBY mode	You may not use the ADMIN or STANDBY parameters in the command to start a WebLogic Server instance.
	You can confirm that neither of these states is enabled by running the measurement script.
Production redeployment	Deploying an application in which a version identifier is specified, either indirectly through the manifest.mf file or directly through the `weblogic.Deployer` utility, is not permitted.
	You can confirm this feature is not used by running the measurement script.
Application Administration mode	You may not use the `-adminmode` option to start any application hosted in a WebLogic Server instance.
	You can confirm this feature is not used by running the measurement script.
Changing the order of deployment	This feature may not be used.
	Do not change the value of the Deployment Order attribute, which can be set in the Administration Console or in the `DeploymentOrder` attribute of the `AppDeploymentMBean`.
	You can confirm this feature is not used by running the measurement script.
FastSwap	This feature may not be used.
	Make sure the `<fast-swap>true</fast-swap>` element is not present in the `weblogic-application.xml` file.
	You can confirm this feature is not used by running the measurement script.
Deploying standalone JMS, JDBC, and WLDF modules	The deployment of standalone JMS, JDBC, or WLDF modules is not permitted. This restriction encompasses both module-level targeting as well as sub-module targeting.
	You can confirm this feature is not used by running the measurement script.

Table A–9   (Cont.) Methods of Determining License Compliance

Feature	Restriction and Method of Measurement
Message Unit-of-Order	Configuring a JMS resource in which the default Unit-of-Order for a message producer is changed from the default value of `None` is not permitted.
	You can confirm this feature is not used by running the measurement script.
Unit-of-Work Message Groups	Configuring a JMS resource to set the value of `UnitOfWorkHandlingPolicy` to anything other than the default value of `Pass-Through` is not permitted.
	You can confirm this feature is not used by running the measurement script.
JMS Store-and-Forward agents	Configuring any store and forward agents is not permitted.
	You can confirm this feature is not used by running the measurement script.
WebLogic Diagnostics Framework	The WebLogic Diagnostics Framework may not be configured.
	You can confirm this feature is not used by running the measurement script.
WebLogic Server SNMP agents	All SNMP agents must be disabled.
	You can confirm this feature is not used by running the measurement script.
WebLogic Tuxedo Connector	This component may not be used.
WebLogic HTTP Publish-Subscribe Server	The installation of this component is not permitted.
Use of custom Work Managers to prioritize and optimize work	This feature may not be used.
	You can confirm that no custom Work Managers are configured in the domain by examining the value of the `WorkManagerMBean`. Note that the Console Work Manager is permitted in the WebLogic Server Basic license. This configuration MBean is accessed in the run-time tree or configuration tree, depending on how the Work Manager is accessed by an application:
	■ If a Work Manager is defined at the module level, the `WorkManagerRuntimeMBean` is available through the corresponding `ComponentRuntimeMBean`.
	■ If a Work Manager is defined at the application level, then `WorkManagerRuntimeMBean` is available through the `ApplicationRuntimeMBean`.
	■ If a Work Manager is defined globally in the domain, each application creates its own instance of the Work Manager. Each application has its own corresponding `WorkManagerRuntimeMBean` available at the application level.
Buffered Web Services	Using the buffered Web Services feature of WebLogic Web Services is not permitted. None of the following tasks involving the use of this feature are permitted by the WebLogic Server Basic license:
	■ Configuring a WebLogic Server instance for buffered Web Services
	■ Implementing or deploying a buffered Web Service
	■ Implementing a client that invokes a buffered Web Service

Table A–9   (Cont.) Methods of Determining License Compliance

Feature	Restriction and Method of Measurement
Asynchronous Web Services	Using the asynchronous request-response feature of WebLogic Web Services is not permitted. None of the following tasks involving the use of this feature are permitted by the WebLogic Server Basic license: ■ Configuring a WebLogic Server instance so that asynchronous Web Services may be deployed on it ■ Implementing or deploying clients that invoke Web Services asynchronously
Conversational Web Services	Implementing or deploying a Web Service that uses the conversational Web Service feature of WebLogic Web Services is not permitted.
JMS transport	Configuring or using the JMS transport feature of WebLogic Web Services as a connection protocol for invoking Web Services is not permitted. None of the following tasks involving the use of this feature are permitted by the WebLogic Server Basic license: ■ Configuring the JMS transport Web Service in a WebLogic domain ■ Using the `@WLJmsTransport` JWS annotation in a Web Service ■ Creating Web Service clients that use the JMS transport
Configuration Wizard, or the `pack` and `unpack` commands, for creating custom domains	Only domain templates and domain extension templates provided by Oracle may be used to create WebLogic domains. The use of these tools to create custom domains, create custom domain extension templates, or modify an existing domain through a custom domain extension template, is not permitted.
Domain Template Builder, or the `pack` and `unpack` commands, for creating domain or domain extension templates	The following tools may not be used: ■ Domain Template Builder ■ `pack` command ■ `unpack` command
Recording WebLogic Server Administration Console operations as a series of WebLogic Scripting Tool (WLST) commands	You may not use this feature in the Administration Console.
Extending the WebLogic Server Administration Console	You may not modify the WebLogic Server Administration Console through using the console extension feature.
Custom or CommonJ Work Manager usage outside the default WebLogic Server Work Manager	Any use of the CommonJ API in deployed applications is not permitted.
WebLogic JMS client for Microsoft .NET and C	Neither JMS client may be used.

B

Oracle Access Manager Basic

This appendix describes Oracle Access Manager Basic and the Oracle Access Manager functionality that is available in the Oracle Access Manager Basic license. The following topics are included:

- Section B.1, "Oracle Access Manager Basic Overview"

- Section B.2, "Oracle Access Manager Basic License Feature Constraints"

B.1 Oracle Access Manager Basic Overview

Oracle Access Manager Basic is a version of Oracle Access Manager that is available in licenses for the following Oracle products:

- Oracle Internet Application Server Standard Edition

- Oracle Internet Application Server Standard Edition One

- Oracle Internet Application Server Enterprise Edition

- Oracle Forms and Reports

The license for each edition of Oracle Internet Application Server enables the right to use of the Oracle Access Manager Basic license.

Oracle Access Manager Basic is only for providing single sign-on capabilities to Oracle Internet Application Server and for custom Java applications previously developed for Oracle Containers for Java EE (OC4J). Oracle Access Manager Basic license rights are also granted to Oracle Forms and Reports running on Weblogic Server for authentication services to users accessing Oracle Forms and Reports. For certification matrix covering system requirements and supported platforms for Oracle Forms and Reports see: http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html. Notwithstanding the foregoing, no other products and applications have the right to use Oracle Access Manager Basic.

The Oracle Access Manager Basic license includes Oracle Access Manager usage rights, with the limitations summarized below:

- No explicit usage of Access Manager SDK

- No explicit usage of Custom Plug-Ins

- LDAP limited to Oracle Internet Directory

- Application Server limited to Oracle Containers for Java EE (OC4J) or WebLogic Server

- Web Server limited to Oracle HTTP Server (OHS)

- No integration with Oracle Adaptive Access Manager permitted
- No integration with Oracle Identity Federation permitted

B.2 Oracle Access Manager Basic License Feature Constraints

Table B–1 summarizes the Oracle Access Manager features that have usage restrictions under the terms of the Oracle Access Manager Basic license. For full use of these capabilities you are required to license Oracle Access Manager.

Table B–1   Oracle Access Manager Basic License Feature Constraints

Feature Category	Summary of Restrictions in Access Manager Basic License
Access Manager SDK	The Access Manager SDK is used to create custom Access Gates for protecting resources protected by Access Manager.
	Use of the Access Manager SDK is not permitted in the Access Manager Basic License.
Custom Plug-Ins	Oracle Access Manager provides APIs that allow software developers to write custom programs or components that integrate closely with Oracle Access Manager. These modules may represent anything from custom extensions of base Oracle Access Manager functionality to significant applications that are outside of Oracle Access Manager, but need to interact with Oracle Access Manager for identity or access control functions.
	Use of Custom Plug-Ins is not permitted in the Access Manager Basic License.
LDAP	Oracle Access Manager supports a range of directory technologies for storing identity and policy data.
	The Access Manager Basic License only permits the use of Oracle Internet Directory for the storage of identity and policy data—no other directory use is permitted.
	Not withstanding the foregoing, use of Active Directory as a repository exclusively to permit Kerberos authentication to Oracle Access Manager Basic secured applications is permitted.
Application Servers	Oracle Access Manager can be integrated with a variety of application server containers.
	The Access Manager Basic License only permits integration with Containers for Java EE (OC4J) or WebLogic Server—integration with other application servers or containers is not permitted.
Web Servers	Oracle Access Manager can be integrated with a variety of Web servers.
	The Access Manager Basic License only permits integration with Oracle HTTP Server (OHS)—integration with other Web servers is not permitted.
Adaptive Access Manager Integration	Oracle Adaptive Access Manager provides Web access, real-time fraud detection, and multi-factor online authentication security for the enterprise.
	The Access Manager Basic License does not permit integration with Oracle Adaptive Access Manager.
Identity Federation Integration	Users need to access content on different corporate Web sites. Corporate Web sites need to authenticate and authorize users from different domains that use different security products. The Oracle Identity Federation product addresses these problems.
	The Access Manager Basic License does not permit integration with Oracle Identity Federation.

C

Oracle Entitlements Server Basic

This appendix describes Oracle Entitlements Server and Oracle Entitlements Server Security Module functionality that is available in the Oracle Entitlements Server Basic license. The following topics are included:

- Section C.1, "Oracle Entitlements Server Basic Overview"
- Section C.2, "Oracle Entitlements Server Basic License Feature Constraints"

C.1 Oracle Entitlements Server Basic Overview

Oracle Entitlements Server Basic replaces the embedded authorization engine within Oracle Platform Security Services (OPSS) and is used to define, enforce and audit basic Role Based Access Control and Java2/JAAS permission based authorization policies. A license of Oracle Entitlements Server Basic is included and available for use only with Oracle products that lists this component in their respective licensing documentation.

C.2 Oracle Entitlements Server Basic License Feature Constraints

Table C–1 summarizes the Oracle Entitlements Server and Oracle Entitlements Server Security Module features that have usage restrictions under the terms of the Oracle Entitlements Server Basic license. For full use of these capabilities you are required to license Oracle Entitlements Server and Oracle Entitlements Server Security Module.

> **Note:** Oracle Entitlements Server Basic included in Oracle WebLogic Server editions via the inclusion of Oracle TopLink and Application Development Framework is only for applications built on Application Development Framework.

Table C–1   Oracle Entitlements Server Basic License Feature Constraints

Feature Category	Summary of Restrictions in Oracle Entitlements Server Basic License
Role Based Access Control (RBAC) and Java2 / JAAS permissions	RBAC and Java2/JAAS permissions are two authorization standards supported in Oracle Entitlements Server.
	Oracle Entitlements Server Basic permits use of RBAC and Java2/JAAS permissions to define, enforce, and audit authorizations for the Oracle products that includes Oracle Entitlements Server Basic.
	Only positive "grant" or "permit" based authorization policies are permitted under the Oracle Entitlements Server Basic license.
Resources & Roles	Oracle Entitlements Server enables applications to define resource catalogs, application roles, role hierarchies, authorization policies, and dynamic role mapping policies.
	Oracle Entitlements Server Basic only permits use of authorization for Java2/JAAS permissions and resources based on resource types that are out of the box secured by Oracle products that includes Oracle Entitlements Server Basic. Use of Application roles, role hierarchies, and static (unconditional) role assignment is permitted under Oracle Entitlements Server Basic License.
	Use of dynamic role mapping policies is not permitted under the Oracle Entitlements Server Basic license.
XACML, Attribute Based Access Control (ABAC), Data Security	XACML, ABAC, and Data Security are authorization standards / models supported in Oracle Entitlements Server and enables organizations to define and enforce advanced, rule based role mapping and authorization policies based on Conditions and Obligations.
	Use of XACML, ABAC, attributes, functions, controlling access to data, Conditions and Obligations is not permitted in the Oracle Entitlements Server Basic License.
Custom, 3rd party Application, Middleware, Application Server, Database Support	Oracle Entitlements Server enables organizations to define, enforce and manage authorization policies to a broad variety of applications, middleware, application servers, and databases.
	Authorization and integration with / for 3rd party (non-Oracle) applications, middleware, application servers, and databases is not permitted under the Oracle Entitlements Server Basic License.
	Oracle Entitlements Server Basic only permits integration with custom applications built using Oracle Fusion Middleware technologies which includes Oracle Entitlements Server Basic, subject to all license terms / restrictions defined for Oracle Entitlements Server Basic.
Audit & Administration UI	Oracle Entitlements Server enables organizations to administer authorization and role mapping policies as well as audit authorization decisions and policy changes at runtime.
	Oracle Entitlements Server Basic permits use of the Oracle Entitlements Server Administration UI console (Authorization Policy Manager) subject to all license terms / restrictions defined for Oracle Entitlements Server Basic. Auditing and reporting of audit data is permitted.
PDP / Security Module deployment	Oracle Entitlements Server provides organizations with multiple deployment options for the Oracle Entitlements Server PDP / Security Module.
	Oracle Entitlements Server Basic only permits use of the default embedded PDP / Security Module that is preinstalled with Oracle Fusion Middleware technologies and Oracle Applications that include Oracle Entitlements Server Basic. Only the default "Uncontrolled Pull" policy distribution mode and the embedded/in process deployment mode of the authorization engine is allowed as part of Oracle Entitlements Server Basic.

Table C–1   (Cont.) Oracle Entitlements Server Basic License Feature Constraints

Feature Category	Summary of Restrictions in Oracle Entitlements Server Basic License
Oracle Entitlements Server SDK's	Oracle Entitlements Server SDK's provide runtime authorization decisions and tooling for managing Oracle Entitlements Server artifacts.
	Oracle Entitlements Server Basic permits use of Java based Oracle Entitlements Server runtime authorization decision API's only for applications built on Oracle Fusion Middleware technologies that includes Oracle Entitlements Server Basic, subject to all license terms / restrictions defined for Oracle Entitlements Server Basic.
	Administration and authoring of policy related artifacts through Oracle Entitlements Server management (MAPI) SDK's is not permitted under the Oracle Entitlements Server Basic license.
Policy Store	Oracle Entitlements Server provides organizations with a large number of options on where to store authorization policies.
	Oracle Entitlements Server Basic permits storage of authorization policies and related artifacts in the certified policy stores.
Policy Simulation	Oracle Entitlements Server provides organizations with facilities to simulate the evaluation and outcome of authorization and role mapping policies.
	Usage of the Policy Simulation UI is permitted under the Oracle Entitlements Server Basic license, subject to all license terms / restrictions defined for Oracle Entitlements Server Basic.
Identity Store	Oracle Entitlements Server enables organizations to use / reference one or more identity stores, typically LDAP servers or databases, for user and external roles / group information.
	Oracle Entitlements Server Basic permits use of a global identity store / configuration for the applications being managed. Use of application specific identity stores is not permitted under Oracle Entitlements Server Basic.

D

Oracle WebLogic Management Framework

Oracle WebLogic Management Framework is a comprehensive set of features from Oracle WebLogic Server and Oracle Coherence providing consistent management capabilities for Fusion Middleware products in which it is expressly included.

This appendix describes the WebLogic Server and Coherence features available in WebLogic Management Framework. The following topics are included:

- Section D.1, "Oracle WebLogic Management Framework Overview"
- Section D.2, "Oracle WebLogic Management Framework Features and License"
- Section D.3, "Installation of Oracle WebLogic Management Framework"

D.1 Oracle WebLogic Management Framework Overview

WebLogic Management Framework provides heterogeneous management capabilities for Oracle Fusion Middleware products that require basic administrative capabilities. Its capabilities include start, stop, configuration settings and other such basic product lifecycle operations through a common command line, API and user interface. WebLogic Management Framework is comprised of specific WebLogic Server and Coherence features.

D.2 Oracle WebLogic Management Framework Features and License

Table D-1 and Table D-2 summarize the Oracle WebLogic Server and Oracle Coherence features that are available as part of WebLogic Management Framework.

Each WebLogic Management Framework feature is limited to use solely with the Oracle products for which WebLogic Management Framework is listed as a component in each product's product licensing documentation. For full use of these features independent of the WebLogic Management Framework, you must separately license other Oracle products. For the WebLogic Server features you are required to license WebLogic Server Standard Edition, WebLogic Server Enterprise Edition, or WebLogic Suite; and for the Coherence features you are required to license Coherence Standard Edition, Enterprise Edition, or Coherence Grid Edition.

Table D–1   Oracle WebLogic Management Framework Features: Oracle WebLogic Server

Feature	Description
WebLogic Server Administration Server	WebLogic Administration Server is a central control entity for managing the configuration of server infrastructure. (`http://docs.oracle.com/cd/E28280_01/web.1111/e13716/understand_domains.htm#sthref8`)

Table D–1   (Cont.) Oracle WebLogic Management Framework Features: Oracle WebLogic

Feature	Description
WebLogic Scripting Tool	WebLogic Scripting Tool is a tool for scripting the configuration of server infrastructure. (http://docs.oracle.com/cd/E28280_01/web.1111/e13715/using_wlst.htm)
WebLogic Server JMX and MBean infrastructure	WebLogic Server JMX and MBean infrastructure provides a set of Mbeans for monitoring, configuring and managing WebLogic Server and its resources. (http://docs.oracle.com/cd/E28280_01/web.1111/e13728/understandwls.htm#JMXCU112)
Weblogic.deployer	WebLogic.deployer is a command lined based tool for deploying Java archives to server infrastructure. (http://docs.oracle.com/cd/E28280_01/web.1111/e13702/wldeployer.htm#i1010724)
WebLogicServer RESTful Management Services	WebLogic Server RESTful Management Services provides representational state transfer (REST) resources that enable you to monitor server infrastructure through HTTP requests and responses. (http://docs.oracle.com/cd/E28280_01/web.1111/e24682/toc.htm#CHDGIHJI)
WebLogic Server Administration Console	WebLogic Server Administration Console provides a browser based graphical user interface for administering WebLogic server infrastructure. (http://docs.oracle.com/cd/E28280_01/apirefs.1111/e13952/index.html)
Fusion Middleware Management Console	Fusion Middleware Control console is a browser based graphical user interface for administering Fusion Middleware server infrastructure.
Fusion Middleware Configuration Wizard	Fusion Middleware Configuration Wizard provides a graphical user driven wizard interface for creating and configuring Fusion Middleware server infrastructure. (http://docs.oracle.com/cd/E28280_01/web.1111/e14140/intro.htm#i1061120)
WebLogic Server Node Manager	WebLogic Server Node Manager is a utility that enables you to start, shut down, and restart Administration Server and Managed Server instances from a remote location. (http://docs.oracle.com/cd/E28280_01/web.1111/e13740/overview.htm#NODEM112)

Table D–2   Oracle WebLogic Management Framework Features: Oracle Coherence

Feature	Description
Coherence Caching for WebLogic Management Framework	Coherence caching is used to communicate management events in memory for the WebLogic Management Framework.

D.3 Installation of Oracle WebLogic Management Framework

Oracle WebLogic Management Framework is provided as a set of features within the standard installer distribution of Oracle Fusion Middleware WebLogic Server and Oracle Coherence.