Oracle® Fusion Middleware

Licensing Information

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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. 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.

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Application Server Products

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

1.1 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. Oracle TopLink, Application Development Framework, and Oracle MapViewer are also included in all of the Oracle Internet Application Server and WebLogic Server and Suite editions.

When you license Oracle TopLink and Application Development Framework separately, the license includes Oracle TopLink Mapping Workbench and Oracle MapViewer.

> **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.

1.2 The Oracle WebLogic Server Product Family

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 1–1 introduces the Oracle WebLogic Server licensing options.

Table 1–1   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, Oracle Application Development Framework, and Oracle MapViewer ■ 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	Includes: ■ Java EE 5/EJB 3.0 ■ High performance JMS messaging ■ Web 2.0 HTTP Pub-Sub Server ■ WebLogic JDBC Drivers, WebLogic Server Clients, and WebLogic and Apache Web Server Plug-Ins

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

Licensing Edition	High Level Functionality	Features Included
Enterprise Edition	Includes all of the Standard Edition functionality, plus: ■ Clustering support ■ Oracle Enterprise Manager Diagnostics Pack for Oracle Middleware ■ Oracle Virtual Assembly Builder ■ Oracle Java SE Advanced (restricted for WebLogic Server. Java SE is included for client applications that access these server components).	All Standard Edition features, plus: ■ Whole-server migration and service migration ■ Oracle Enterprise Manager Diagnostic Pack for Oracle Middleware includes Application Diagnostics for Java (AD4J). 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`. ■ Oracle Virtual Assembly Builder (OVAB) enables rapid configuration and provisioning of multi-tier application topologies onto virtualized and cloud environments.

Table 1–1 (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 Management 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 1.6, "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 1.3, "The Oracle Internet Application Server Product Family."

1.2.1 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 Enterprise Manager Grid Control

- Oracle Application Diagnostics for Java (AD4J)

- 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 1–2   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 Enterprise Manager Grid Control - Oracle Application Diagnostics for Java (AD4J) - Oracle Virtual Assembly Builder (OVAB) **Notes:** - Adding cluster support does not require an additional installation procedure. - The installers for both Oracle Enterprise Manager Grid Control and AD4J must be run to obtain Oracle Enterprise Manager Diagnostics Pack for Oracle Middleware.

Table 1–2   (Cont.) Installation Programs Required for WebLogic Product Editions

Licensing Edition	Corresponding Installation Programs
WebLogic Suite	The installation programs for WebLogic Suite include all those for Enterprise Edition, plus: ■ Oracle Identity Management ■ Oracle Coherence Enterprise Edition ■ Oracle Enterprise Manager Management 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 1.2.2.4, "WebLogic SIP Server."

1.2.2 Licensing Considerations for Additional Features

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

1.2.2.1 WebLogic for Oracle Internet Application Server

The license for Oracle Internet Application Server within WebLogic Suite includes the unrestricted rights to the full capabilities of the WebLogic Server Enterprise Edition.

> **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.

1.2.2.2 Management and Diagnostics

The following topics describe license considerations for management and diagnostics features for editions of Oracle WebLogic Server.

1.2.2.2.1 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.

■   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 Grid Control, which is Oracle's integrated tool for managing your Oracle Grid and the components running on the grid.

1.2.2.2.2   Diagnostics Pack for Oracle Middleware   The Oracle Enterprise Manager Diagnostics Pack for Oracle Middleware improves the availability and performance of Java applications with low overhead, as well as providing in-depth diagnostics. It enables administrators to proactively monitor application performance and diagnose the root cause of performance problems, such as an application crashing and hanging in a production environment, which may severely impact businesses.

For feature highlights and license details, see the Oracle Enterprise Manager Licensing Information document available at
`http://www.oracle.com/technetwork/oem/grid-control/documentation/index.html`

1.2.2.3 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 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.

1.2.2.3.1   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:

- 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

1.2.2.3.2 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

  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.

1.2.2.3.3 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.

1.2.2.3.4 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 1–3 lists and describes the license restricted Oracle WebLogic Server GridLink data source XML configuration elements.

Table 1–3   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*.

1.2.2.4 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.

1.2.2.5 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/

1.2.2.6 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.

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

1.2.2.6.2 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 and is restricted for WebLogic Server. Java SE is included for client applications that access these server components.

1.2.2.6.3 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 and is restricted for WebLogic Server, Oracle Containers for J2EE and Coherence. Java SE is included for client applications that access these server components.

1.2.2.7 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 1–4:

Table 1–4   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

Table 1–4   (Cont.) Client JAR files and Other Resources Provided for Standalone Clients

Client Type	Bundled Resources	Key Features
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
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

1.2.2.8 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 1–5 for the licensed WebLogic Server installation.

Table 1–5   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

1.2.3 Restricted-Use Licensing

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

1.2.3.1 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 1.3.3, "Restricted-Use Licensing" for details.

1.2.3.2 Oracle Internet Application Server Requirements

See Section 1.3.3, "Restricted-Use Licensing," for details about restricted-use licenses included with WebLogic Suite Edition.

1.2.3.3 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.

1.2.3.4 Oracle Java SE Advanced and Oracle Java SE Suite

WebLogic Server EE includes a restricted use license for Oracle Java SE Advanced (restricted for WebLogic Server. Java SE is included for client applications that access WebLogic Server).

WebLogic Suite includes a restricted use license for 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).

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

1.2.4 General Licensing Information

Oracle WebLogic Server Standard Edition, WebLogic Server Enterprise Edition, and WebLogic Suite Edition can be licensed with the Named User Plus metric and/or the Processor metric.

1.3 The Oracle Internet Application Server Product Family

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 1–6 introduces the Oracle Internet Application Server licensing options.

Table 1–6   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 ■ Oracle MapViewer ■ 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 Oracle Fusion Middleware 11*g*, customers of Oracle Internet Application Server continue to have rights to OC4J 10*g* Release 2 and Release 3. 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 Section 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 9.14, "Oracle Identity and Access Management Suite Plus."	■ mod_ossl ■ mod_oradav ■ mod_fastcgi ■ mod_rewrite ■ Proxy Plug-In ■ XML Developer Kit ■ Oracle Application Development Framework (ADF) ■ 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
Standard Edition One	Oracle Internet Application Server Standard Edition One includes all of the Standard Edition functionality.	All features included in Standard Edition

Table 1–6 (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 Section 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 1.3.2.2.2, "Oracle Identity Management," for details about Identity Management features.

1.3.1 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 1–7 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 1–8.

Table 1–7   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 or Standard Edition One
JDeveloper	Standard Edition
TopLink	Standard Edition
Oracle Identity Management	Standard Edition or Standard Edition One
Portal, Forms, Reports and Discoverer	Standard Edition or Standard Edition One
Integration, Oracle B2B	Enterprise Edition
Repository Creation Utility	Standard Edition or Standard Edition One

Table 1–8 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 1–8   Installation Types Included with Editions of Oracle Internet Application Server

Edition	Installation Types	Exceptions
Standard Edition or Standard Edition One	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 1.3.3, "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 1.3.3, "Restricted-Use Licensing."

1.3.2 Licensing Considerations for Additional Features

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

■   Section 1.3.2.1, "Management Features"

■   Section 1.3.2.2, "Security Features"

■   Section 1.3.2.3, "High Availability Features"

■   Section 1.3.2.4, "Adapters"

1.3.2.1 Management Features

All editions of Oracle Internet Application Server include Oracle Enterprise Manager Fusion Middleware Control, which is used for managing all the components within Oracle Internet Application Server. In addition, all of the Oracle Internet Application Server editions work with Oracle Enterprise Manager Grid Control, which is Oracle's integrated tool for managing your Oracle Grid and the components running on the grid (for example, single instance databases, Real Application Clusters, Oracle Applications, Oracle Fusion Middleware, and third-party products).

Grid Control includes a restricted-use license for the Oracle Database and Oracle Application Server components required to deploy Grid Control. Refer to Section 1.3.3, "Restricted-Use Licensing," for details on the restricted-use licenses.

1.3.2.2 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.

1.3.2.2.1 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.

1.3.2.2.2 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 Section 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 1.3.3, "Restricted-Use Licensing."

1.3.2.3 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 1.2.2.3.3, "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."

1.3.2.4 Adapters

See Chapter 3, "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.

1.3.3 Restricted-Use Licensing

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

1.3.3.1 Standard Edition and Standard Edition One

- 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.

1.3.3.2 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.

1.3.3.3 Oracle Database License Requirements: Oracle Internet Application Server (Standard Edition, Standard Edition One, 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).

1.3.3.3.1 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

1.3.3.3.2 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

1.3.3.3.3 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

1.3.4 General Licensing Information

Oracle Internet Application Server Standard Edition, Oracle Internet Application Server Standard Edition One, and Oracle Internet Application Server Enterprise Edition can be licensed with the Named User Plus metric and/or the Processor metric.

1.4 The 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

- Enterprise Manager, GlassFish Control — management console

- 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.

1.4.1 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.

1.5 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.

1.6 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 1.6.1, "Oracle Coherence Standard and Enterprise Edition"

- Section 1.6.2, "Oracle Coherence Grid Edition"

- Section 1.6.3, "Coherence*Web OptimizeModifiedSessions"

- Section 1.6.4, "Java SE with Oracle Coherence"

- Section 1.6.5, "Oracle TopLink with Oracle Coherence"

- Section 1.6.6, "Management Pack for Oracle Coherence"

- Section 1.6.7, "Feature Availability in Coherence Server Editions"

- Section 1.6.8, "Feature Availability in Coherence Client Editions"

1.6.1 Oracle Coherence Standard and Enterprise Edition

This section includes the following topics:

- License Model

- Client Access to Enterprise and Standard Edition Clusters

1.6.1.1 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[1] and Cache Servers[2]. With Standard and Enterprise Editions Cache Clients must be licensed with the appropriate Server Edition license.

1.6.1.2 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 1–1 shows what an Enterprise or a Standard Edition deployment may look like from the licensing perspective.

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[1] *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.

[2] *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 1–1   Oracle Coherence Standard or Enterprise Edition Deployment
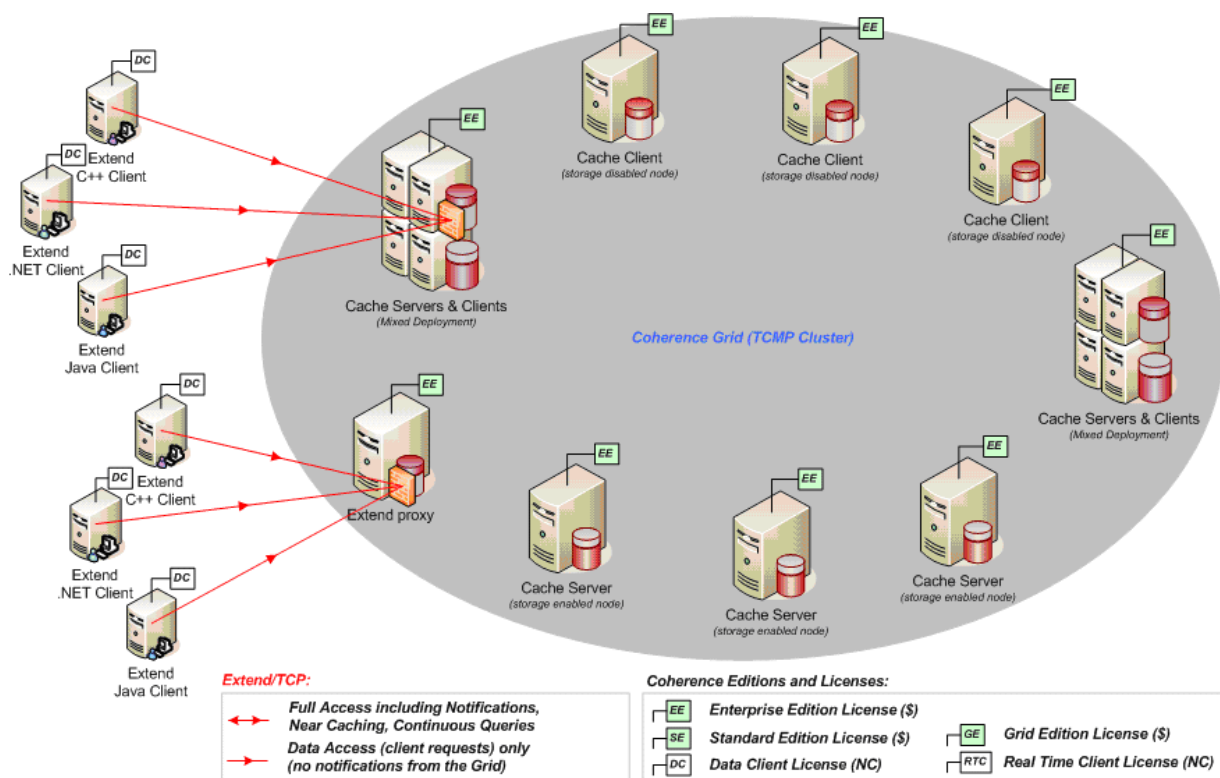
1.6.2 Oracle Coherence Grid Edition

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

1.6.2.1 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).

1.6.2.2 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 1–2 shows what a Grid Edition deployment may look like from the licensing perspective.

Figure 1–2   Oracle Coherence Grid Edition Deployment
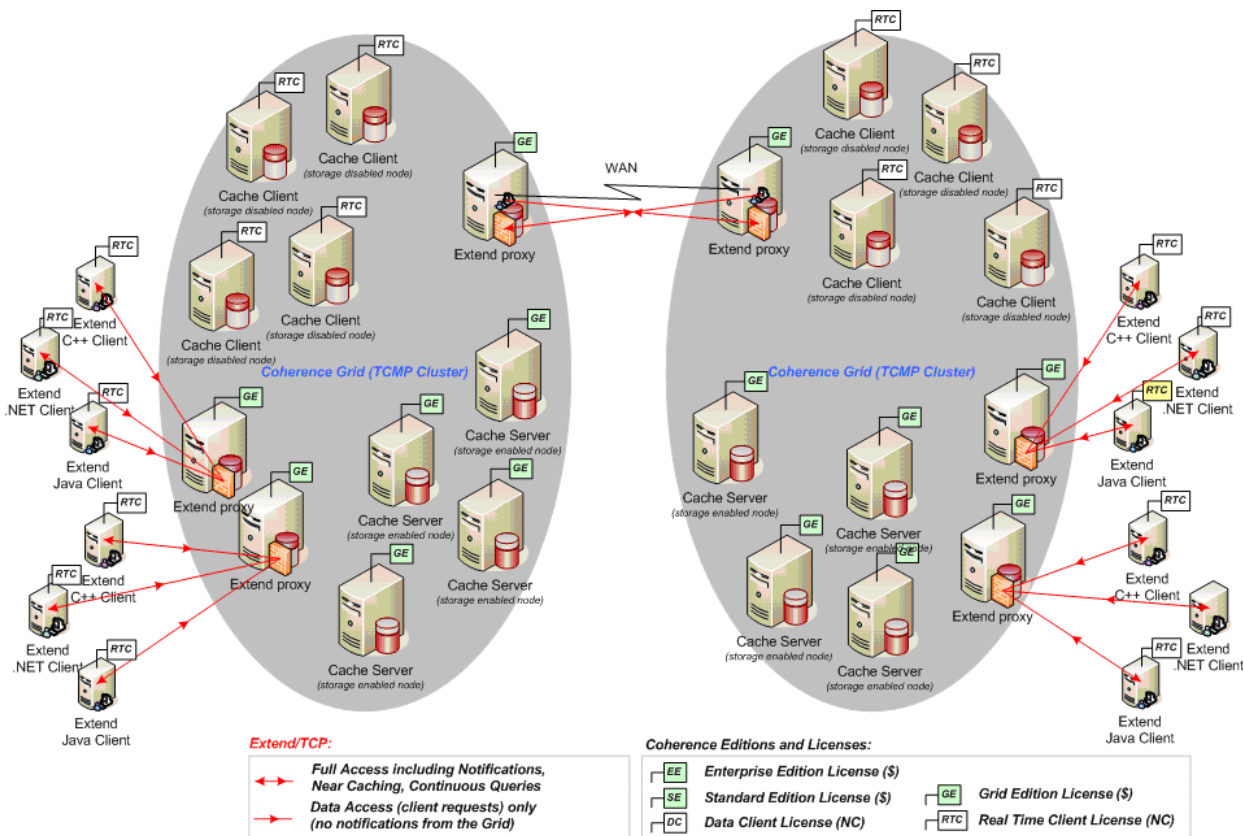
1.6.3 Coherence*Web OptimizeModifiedSessions

The Oracle Coherence*Web OptimizeModifiedSessions feature requires licensing Oracle Exalogic Elastic Cloud Software.

1.6.4 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.

1.6.5 Oracle TopLink with Oracle Coherence

A restricted use license for Oracle TopLink and Application Development Framework (see Section 1.1, "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.

1.6.6 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`.

1.6.7 Feature Availability in Coherence Server Editions

Table 1–9 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 1–9   Coherence Server Editions

Category	Feature	Standard Edition	Enterprise Edition	Grid Edition
General	Fault-tolerant data caching	✔	✔	✔
General	Data management including write-behind, transactions, analytics and events	N/A	✔	✔
General	Support for heterogeneous clients	N/A	N/A	✔
Connectivity	Embedded Data Client and Real Time Client functionality[1]	✔	✔	✔
Connectivity	TCMP cluster technology[2,3]	✔	✔	✔
Connectivity	Support for cross-platform Data Clients	✔	✔	✔

Table 1–9   (Cont.) Coherence Server Editions

Category	Feature	Standard Edition	Enterprise Edition	Grid Edition
Connectivity	Multicast-free operation (WKA)	N/A	✔	✔
Security	Network traffic encryption	✔	✔	✔
Security	Java Authentication & Authorization Service (JAAS)	✔	✔	✔
Management & Monitoring	Management host[4]	✔	✔	✔
Management & Monitoring	Manageable through clustered JMX	N/A	✔	✔
Caching	Local cache, Near cache, continuous query cache, real-time events	✔	✔	✔
Caching	Fully replicated data management	✔	✔	✔
Caching	Partitioned data management	✔	✔	✔
Caching	Data source integration through read-through/write-through caching	✔	✔	✔
Caching	Elastic Data	N/A	N/A	✔
Integration	TopLink integration	✔	✔	✔
Integration	Hibernate integration	✔	✔	✔
Integration	HTTP session management for application servers	N/A	✔	✔
Integration	BEA Portal "p13n cache" integration	N/A	✔	✔
Analytics	Parallel InvocableMap and QueryMap[5]	N/A	✔	✔
Transactions	Write-behind caching	N/A	✔	✔
Transactions	J2CA Resource Adapter	N/A	✔	✔
Compute Grid	InvocationService	N/A	✔	✔
Compute Grid	WorkManager	N/A	✔	✔
Enterprise Data Grid	WAN support[6]	N/A	N/A	✔
Enterprise Data Grid	Support for cross-platform Real Time Clients	N/A	N/A	✔

[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.

1.6.8 Feature Availability in Coherence Client Editions

Table 1–10 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 1–10   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	✔	✔	✔
General	Real time synchronization with the data grid	N/A	✔	✔
API Language	Java	✔	✔	✔
API Language	.NET	✔	✔	N/A
API Language	C++	✔	✔	N/A
Client API	Data transformation (PIFPOF / ExternalizableLite / XmlBean)	✔	✔	✔
Client API	InvocationService[1]	✔	✔	✔
Client API	NamedCache (core)	✔	✔	✔
Client API	NamedCache (with ObservableMap real time events)	N/A	✔	✔
Client API	MemberListener	N/A	N/A	✔
Connectivity	Coherence*Extend client[2]	✔	✔	✔
Connectivity	Multicast-free operation[2]	✔	✔	✔
Connectivity	TCMP cluster technology[3]	N/A	N/A	✔

Table 1–10 (Cont.) Coherence Client Editions

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

[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] 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).

1.7 Oracle Enterprise Gateway

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

- Oracle Enterprise Gateway Service Explorer

- Oracle Enterprise Gateway Policy Studio

- Oracle Enterprise Gateway Policy Center

- Oracle Enterprise Gateway Service Manager

- Oracle Enterprise Gateway Service Monitor

1.8 Oracle BPEL Process Manager

Oracle BPEL Process Manager enables enterprises to model, deploy, and manage BPEL (Business Process Execution Language) processes. It includes a BPEL business process modeler, a scalable BPEL run-time engine, an extensible WSDL binding framework, and a monitoring console.

Oracle BPEL Process Manager can be separately licensed as a standalone product or as an option to WebLogic Suite (see Section 2.1, "Oracle BPEL Process Manager Option"). Oracle BPEL Process Manager is also a component of the following suites:

- SOA Suite for Non Oracle Middleware
- SOA Suite for Oracle Middleware

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.

Oracle BPEL Process Manager includes a restricted-use license for Oracle Coherence Standard Edition for clustering use only.

1.9 Oracle WebLogic Integration

Oracle WebLogic Integration is a comprehensive and flexible java-based solution that allows integrating systems, data, and people within and across companies to make the most of existing assets wherever they are. It includes standards-based connectivity for all major packaged applications, support for best practice patterns, and a unified development environment designed to allow rapid construction of complex, transactional process scenarios. WebLogic Integration accelerates SOA initiatives by rapidly enabling corporate information and process integrations as a service to drive continued business innovation

Oracle WebLogic Integration is separately licensed as a standalone product.

1.10 Oracle Service Registry

Oracle Service Registry (OSR) provides a "DNS"-like reference for SOA. A fully compliant UDDI v3 registry, Oracle Service Registry provides a standards-based interface for SOA run-time infrastructure to dynamically discover and bind to deployed service end points. As part of the Oracle SOA Governance solution, Oracle Service Registry bridges the gap between the design time and run-time environments through automated synchronization with Oracle Enterprise Repository and SOA Suite for Oracle Middleware.

Oracle Service Registry is separately licensed as a standalone product; however, OSR works together with Oracle Enterprise Repository, Oracle Web Services Manager, and SOA Management Pack Enterprise Edition to provide an enterprise-class SOA Governance solution.

Customers who licensed Oracle Internet Application Server (Java Edition, Standard Edition, or the Enterprise Edition), before August 8, 2008, continue to be licensed for the free 50 Service Registry entries. All Internet Application Server (any edition) licenses after August 8, 2008 do not contain these.

1.11 Oracle Enterprise Repository

The Oracle Enterprise Repository (OER) is a comprehensive repository that provides visibility into all SOA assets and their relationships to eliminate redundancy, promote reuse, and manage impact of change; end-to-end governance of the SOA lifecycle for risk reduction through automated, repeatable processes; and analytics that provide insight into the business value of SOA for better decision-making.

OER includes a restricted-use license to Oracle Unified Business Process Management Suite or Oracle Unified Business Process Management Suite for Non Oracle Middleware to modify existing workflows that are supplied with OER and implement new Repository-centric workflows. The following capabilities of Oracle BPM Suite are not included in the restricted-use license and would trigger the full use license: Simulation, Business Activity Monitoring, Process Analytics, and Process Portal.

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 would trigger a full use license.

Oracle Enterprise Repository is separately licensed as a standalone product; however, OER works together with Oracle Service Registry, Oracle Web Services Manager, and SOA Management Pack Enterprise Edition to provide an enterprise-class SOA Governance solution.

1.12 Oracle Web Services Manager

Oracle Web Services Manager provides policy based declarative security and reliability for Web services and their clients. Oracle Web Services Manager is licensed as part of SOA Suite for Oracle Middleware. Oracle Web Services Manager works together with Oracle Enterprise Repository, Oracle Service Registry, and SOA Management Pack Enterprise Edition to provide an enterprise-class SOA Governance solution.

1.13 SOA Suite for Non Oracle Middleware

SOA Suite is an integrated, best-in-class suite of products that help you build, deploy, and manage deployments ranging from department-level to enterprise-wide systems. Customers using WebLogic Server should use SOA Suite for Oracle Middleware (Section 2.3, "SOA Suite for Oracle Middleware"). Customers with non-Oracle application servers, such as WebSphere, should license this "Non Oracle" version.

SOA Suite for Non Oracle Middleware includes the same components and licenses as SOA Suite for Oracle Middleware, with the following exceptions:

- Oracle B2B and Technology Adapters are included in SOA Suite for Non Oracle Middleware. SOA Suite for Oracle Middleware includes Oracle B2B and Technology Adapters indirectly as components of the prerequisite WebLogic Suite.

- Oracle Service Bus (Section 2.2, "Oracle Service Bus") is not included in SOA Suite for Non Oracle Middleware.

1.14 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 (Section 2.4, "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.

1.15 Oracle Business Process Analysis Suite

Oracle BPA Suite is a modeling and analysis tool targeted at business analysts. It supports rigorous process methodologies such as Six Sigma and hierarchical process modeling including value-chain diagrams, ultimately decomposing down to BPMN models. These BPMN models are shared with the BPEL editor, including full bidirectional synchronization, for seamless round trip design. BPA Suite also includes rich analysis, simulation, and reporting.

Although it is not included in the Oracle BPM Suite package, Oracle BPA Suite is an integral part of the Oracle Business Process Management platform.

1.16 Event-Driven Architecture Suite

The EDA Suite is a differentiated suite of Oracle integration products focused on meeting the event-driven application development needs of developers defining front-office applications that require low latency, high throughput and deterministic processing of data or event streams.

The Event-Driven Architecture Suite includes:

- Oracle Complex Event Processing (CEP)

  Oracle CEP (formerly BEA's WebLogic Event Server) is the first and only Java server for the development of high-performance event driven applications. It is a lightweight Java application container built from the ground up, based on Equinox OSGi, with shared services, including a powerful Complex Event Processing (CEP) service, which provides a rich, declarative environment to improve the efficiency and effectiveness of managing business operations. CEP detects patterns in the flow of events, often based on filtering, correlation, and aggregation across event sources and includes industry leading temporal and ordering capabilities. It supports ultra-high throughput (in excess of one million events per second) and microsecond latency. Oracle CEP includes the Oracle JRockit JVM.

- Oracle Business Activity Monitoring

  Oracle Business Activity Monitoring (BAM) is a complete solution for building real-time operational dashboards, monitoring and alerting applications over the Web. It enables customers to monitor business processes and their emanating

events to understand the impact on the Key Performance Indicators affecting their business.

- Oracle Enterprise Service Bus (see Section 1.13, "SOA Suite for Non Oracle Middleware")

- Oracle Business Rules

  Oracle Business Rules is an inference capable declarative rules engine that enables externalization of rules and policies processes and applications. It includes an authoring environment and run-time server.

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

The EDA Suite is separately licensed as a standalone product; however, when Coherence is used as an Oracle CEP caching system, Oracle CEP requires Coherence Enterprise Edition licensing.

1.17 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 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."

1.17.1 Restricted-Use Licenses

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

- Oracle Single Sign-On is provided for authentication services to users accessing Oracle Forms and Reports.

- 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.

1.18 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. No Oracle software product may be run on a processor that is licensed for, and running, the Exalogic Elastic Cloud Software using a "Standard Edition" license.

There are no supported means of operating the Exalogic Elastic Cloud Hardware that does not require use of the Exalogic Elastic Cloud Software, nor are there any supported approaches to "hard partitioning" that would allow customers to avoid licensing all of the physical processors for a given Exalogic Elastic Cloud X2-2 Hardware compute node (server) that is powered on.

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.

- **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.

- **Exalogic Elastic Cloud Software option for WebLogic Suite**: This is a set of features implemented within WebLogic Suite that are technically dependant on the underlying Exalogic Elastic Cloud Software. For detailed information, please see the WebLogic Suite Options licensing information.

2

WebLogic Suite Options

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

- Section 2.1, "Oracle BPEL Process Manager Option"
- Section 2.2, "Oracle Service Bus"
- Section 2.3, "SOA Suite for Oracle Middleware"
- Section 2.4, "Unified Business Process Management Suite"
- Section 2.5, "SOA Suite and BPEL PM Licensing with Oracle Internet Application Server"
- Section 2.6, "WebLogic Coherence Grid Edition Option"
- Section 2.7, "Application Server Enterprise Management"
- Section 2.8, "Exalogic Elastic Cloud Software"

2.1 Oracle BPEL Process Manager Option

Oracle BPEL Process Manager, described in Section 1.8, "Oracle BPEL Process Manager," can be licensed as an option to WebLogic Suite.

2.2 Oracle Service Bus

Oracle Service Bus (OSB – formerly BEA AquaLogic Service Bus) is a proven, lightweight SOA integration platform and a key component of the SOA Suite for Oracle Middleware product family. OSB is designed for connecting, mediating and managing interactions between heterogeneous services, not just Web services, but also Java and .Net, messaging services and legacy endpoints.

OSB uniquely delivers the integration capabilities of an Enterprise Service Bus (ESB) with operational service management in a single product with an efficient, seamless user experience. With its flexible deployment options and automated integration with Oracle SOA Governance Suite, Oracle Service Bus is designed to handle the deployment, management and governance challenges of implementing service-oriented architecture (SOA) from department to enterprise scale.

Oracle Service Bus is licensed as an option to WebLogic Suite and is also included in SOA Suite for Oracle Middleware. Note that customers running SOA Suite for Oracle Middleware on WebLogic Server Basic, described in Section 2.5, "SOA Suite and BPEL PM Licensing with Oracle Internet Application Server," are not entitled to run Oracle Service Bus.

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

2.3 SOA Suite for Oracle Middleware

SOA Suite for Oracle Middleware is an integrated, best-in-class suite of products that helps you build, deploy, and manage deployments ranging from department-level to enterprise-wide systems. This 100% standards-based, hot-pluggable infrastructure interoperates with your existing IT investments. Many Oracle customers have succeeded in deploying high-volume, mission-critical SOA systems by leveraging the industry's best Service Bus and BPEL orchestration engine combined with Oracle's extensive connectivity options and renowned extreme-scalability on a grid computing infrastructure.

This SOA Suite version is for customers running WebLogic Server. In Fusion Middleware 11*g*, SOA Suite for Oracle Middleware provides heightened design-time and run-time integration using Oracle's SOA Service Platform based on SCA (Service Composite Architecture).

The suite includes:

- Oracle BPEL Process Manager (see Section 1.8, "Oracle BPEL Process Manager")

- Oracle Service Bus (see Section 2.2, "Oracle Service Bus")

- Mediator

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

  The 11*g* Mediator is derived from Oracle Enterprise Service Bus (OESB), which was introduced in Fusion Middleware 10*g* Release 3 and was Oracle's primary ESB on Oracle Containers for J2EE as well as on 3rd-party Java EE platforms such as WebSphere. Licensees of SOA Suite 10*g* can migrate functionality from OESB to the Mediator component of SOA Suite 11*g*. In SOA Suite 11*g*, Oracle Service Bus has become the Fusion Middleware strategic inter-application service bus going forward.

- 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. Oracle BAM is a complete solution for building real-time operational dashboards, monitoring and alerting applications over the Web.

  > **Note:** Oracle Business Activity Monitoring includes restricted use of Oracle Data Integrator Enterprise Edition for scenarios where Oracle Business Activity Monitoring is the source of and/or destination for the transformed data.

- 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 Business Rules has seamless integration with Oracle BPEL PM and rest of the SOA stack.

- Oracle Human Workflow

  Oracle Human Workflow facilitates the inclusion of human tasks in SOA composite applications. With a SOA composite, 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.

- Oracle Complex Event Processing

  Oracle Complex Event Processing (CEP) provides a rich, declarative environment to detect patterns in the flow of events based on filtering, correlation, and aggregation across event sources and includes numerous temporal and ordering capabilities.

- JDeveloper and ADF

  Oracle JDeveloper is a free integrated enterprise development environment with end-to-end support for modeling, developing, debugging, optimizing, and deploying Java based SOA applications. Oracle JDeveloper introduces a new approach to Java EE development with features that enable visual and declarative development. The innovative Oracle Application Development Framework (ADF) simplifies Java EE development. Oracle JDeveloper's "productivity with choice" offers a choice of development approach, technology scope, and deployment platform.

- Adapters

  See Chapter 3, "Oracle Fusion Middleware Adapters," for a description of Fusion Middleware Adapters. Technology adapters are included in the SOA Suite license via the inclusion of Internet Application Server Enterprise Edition in WebLogic Suite. Others require separate licensing.

- Oracle B2B (included via the inclusion of Internet Application Server Enterprise Edition in WebLogic Suite)

  For an enterprise to extend business processes to its trading partners requires a well-defined architecture that addresses compliance, security, visibility, scalability, and standards. SOA Suite for Oracle Middleware provides this platform, enabling process orchestration, administration, monitoring, inter-enterprise connectivity and more. As an integral part of this architecture, Oracle B2B enables an enterprise to define, configure, manage, and monitor the exchange of information, electronically, with its trading partners.

  Oracle B2B includes the B2B engine and the following adapters, which must be licensed separately:

  - RosettaNet Adapter
  - EDI Adapter

- Healthcare Adapter

- ebXML Adapter

SOA Suite for Oracle Middleware is licensed as an option to WebLogic Suite. Customers who are running SOA Suite for Oracle Middleware on WebLogic Server Basic, Section 2.5, "SOA Suite and BPEL PM Licensing with Oracle Internet Application Server," are licensed to run all components of SOA Suite for Oracle Middleware except Oracle Service Bus and Oracle Complex Event Processing.

> **Note:** SOA Suite for Oracle Middleware 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. SOA Suite for Oracle Middleware includes a restricted-use license for Oracle Coherence Standard Edition for clustering use only.

2.4 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.

An integral part of the Oracle Unified Business Process Management platform, though not included in BPM Suite, is Oracle Business Process Analysis Suite (Oracle BPA Suite). Oracle BPA Suite is a modeling and analysis tool targeted at business analysts. It supports rigorous process methodologies such as Six Sigma and hierarchical process modeling including value-chain diagrams, ultimately decomposing down to BPMN models. These BPMN models are shared with the BPEL editor, including full bidirectional synchronization, for seamless round trip design. BPA Suite also includes rich analysis, simulation, and reporting.

2.5 SOA Suite and BPEL PM Licensing with Oracle Internet Application Server

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

2.6 WebLogic Coherence Grid Edition Option

Oracle Coherence Grid Edition can be licensed as an option to WebLogic Suite. For more information, see Section 1.6.2, "Oracle Coherence Grid Edition."

2.7 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

2.7.1 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, Enterprise Manager Grid 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.

2.7.2 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. At a high level, this pack provides capabilities for application performance management, configuration management, service level management, Coherence management, provisioning, and patch automation for Oracle Application Server, Oracle Fusion Middleware, and Oracle WebLogic Server software.

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.

2.8 Exalogic Elastic Cloud Software

Oracle Exalogic Elastic Cloud Software includes a license-restricted set of features that enables improved performance and reliability of products within Oracle WebLogic Suite. For information about using these optimizations on the Exalogic Elastic Cloud, see "Enabling Exalogic-Specific Enhancements in Oracle WebLogic Server 11*g* Release 1 (10.3.4)" in *Exalogic Elastic Cloud Enterprise Deployment Guide*.

The following sections describe Oracle WebLogic Server configuration options that are restricted to Oracle Exalogic Elastic Cloud Software licenses:

- Section 2.8.1, "Input/Output and Work Manager Optimizations for Exalogic Elastic Cloud Software"

- Section 2.8.2, "JDBC and Data Source Optimizations for Exalogic Elastic Cloud Software"

- Section 2.8.3, "Cluster State Replication Optimizations for Exalogic Elastic Cloud Software"

- Section 2.8.4, "Socket Direct Protocol for Exalogic Elastic Cloud Software"

2.8.1 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 2–1 lists and describes the MBean attributes and WebLogic Server startup options for configuring WebLogic Server with these options that are restricted to Exalogic Elastic Cloud Software licenses.

Table 2–1 Exalogic Elastic Cloud Software Configuration Enabled in WebLogic Server

MBean Attribute[1]	WebLogic Server Startup Option[2]	Description
KernelMBean.ScatteredReadsEnabled=true	-Dweblogic.ScatteredReadsEnabled=true	Increases efficiency during I/O in environments with high network throughput
KernelMBean.GatheredWritesEnabled=true	-Dweblogic.GatheredWritesEnabled=true	Increases efficiency during I/O in environments with high network throughput
KernelMBean.AddWorkManagerThreadsByCpuCount	-Dweblogic.AddWorkManagerThreadsByCpuCount=true	Increases efficiency of the self-tuning thread pool by aligning it with the Exalogic processor architecture threading capabilities

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

[2] For more information about these startup options, see "weblogic.Server Command-Line Reference" in *Command Reference for Oracle WebLogic Server*.

2.8.2 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 2–2 lists and describes the Oracle JDBC features that are restricted to Exalogic Elastic Cloud Software licenses. Note, as stated in Section 2.8.4, "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 2–2   Exalogic Elastic Cloud Software Oracle JDBC Options

Option	Description
`oracle.jdbc.enableJavaN etFastPath`	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 1.2.2.3.4, "Database Integration."

2.8.3 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 *Exalogic Enterprise Deployment Guide*.

Table 2–3 lists and describes the WebLogic Server cluster state replication MBeans that are restricted to Exalogic Elastic Cloud.

Table 2–3   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.setOneWayRmiForReplicationEnab led(boolean enable)`	Enables state replication to be set directionally to one-way only.
`ClusterMBean.setSessionLazyDeserializationE nabled(boolean enable)`	Increases efficiency with session replication.

2.8.4 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 2–4 lists and describes Oracle WebLogic Server SDP features that are restricted to Exalogic Elastic Cloud Software licenses.

Table 2–4   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*.

3

Oracle Fusion Middleware Adapters

This chapter covers licensing for Oracle Fusion Middleware adapters.

Table 3–1 lists the types of integration adapters:

Table 3–1   Oracle Fusion Middleware Adapters

Application Adapters[1]	Mainframe and TP-Monitor	Changed Data Capture (CDC) Adapters	B2B Adapters[2]	Technology Adapters
SAP	CICS	VSAM Batch	RosettaNet	File
PeopleSoft	IMS DB	Adabas	EDI	FTP
Siebel	IMS TM	DB2/390	Healthcare	JMS
J. D. Edwards	Tuxedo	Microsoft SQL Server 2000		Advanced Queueing
Oracle Applications (for E-Business Suite)	VSAM	Microsoft SQL Server 2005	ebXML	Database
	BeanConnect	IMS/DB		MQ Series
		VSAM CICS		Socket

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

[2] Note that the B2B for ebXML adapter is available either standalone, or as a component (for no additional charge) of B2B for RosettaNet, B2B for EDI, or Healthcare Adapter.

Technology adapters are included in the Oracle Internet Application Server and WebLogic Suite license upon which SOA Suite for Oracle Middleware has a licensing dependency. Technology adapters are also included in SOA Suite for Non Oracle Middleware. All other adapters are licensed separately.

An additional separately licensed adapter, Enterprise Link for Business Activity Monitoring, is offered as an extension of the Oracle BAM 10*g* product for customers who are looking to leverage Oracle BAM's embedded extract, transform and load (ETL) tooling. Enterprise Link is only one of five major ways to source data into Oracle BAM and is not required in all customer implementations. Customers who do not need Enterprise Link are any customers connecting to Oracle BAM only through BPEL PM Sensors or the Web Services API for Oracle BAM's Active Data Cache. Enterprise Link is required for all customers connecting to Oracle BAM through JMS queues or though query-based ETL updates. This includes customers who want to listen to JMS messages in existing integration environments, transfer large data sets into BAM, or archive data out of the BAM Active Data Cache on a scheduled basis. Enterprise Link is an extension to the 10*g* version of Oracle BAM only.

4

Java SE Products

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

- Section 4.1, "Oracle Java SE Advanced"
- Section 4.2, "Oracle Java SE Suite"

4.1 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

4.2 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

5

Data Integration Technology

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

5.1 Oracle Data Integrator Enterprise Edition

Oracle Data Integrator Enterprise Edition is a comprehensive software package for enabling scalable data integration in heterogeneous data environments. Oracle Data Integrator Enterprise Edition is separately licensed independent of any Oracle WebLogic Server edition, Oracle Business Intelligence Server Enterprise Edition, or Oracle Business Intelligence Suite Enterprise Edition. Therefore, to obtain high availability in Oracle Data Integrator Enterprise Edition, a separate license for the appropriate edition of Oracle WebLogic Server or Oracle Coherence is required.

Oracle Data Integrator Enterprise Edition includes the following components:

- Oracle Data Integrator (ODI) — a heterogeneous platform for data integration that includes design time components for modeling and mapping, and run-time components for executing bulk data movement and transformation. ODI includes Job Scheduler Services, Changed Data Capture components, and a complete set of Knowledge Modules for access to an unrestricted number of Source technologies.

- Oracle Warehouse Builder Enterprise ETL — an enterprise-class data integration platform for the Oracle Database that includes design time components for modeling and mapping, run-time components for executing bulk data movement and transformation, and administration components for managing the metadata repository.

Oracle Warehouse Builder Enterprise ETL extends the Oracle Database ETL features 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
  - Change Data Capture mappings in ETL
  - 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

- 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

- 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

- 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)

For more information about Warehouse Builder functionality, see the Oracle Database 11.2 Documentation Library for Data Warehousing and Business Intelligence.

5.1.1 Restricted Use Licensing

Oracle Data Integrator Enterprise Edition includes a restricted use license for Oracle WebLogic Server Standard Edition restricted to use for running the Oracle Data Integrator Web Console. Any other use will trigger a Full Use License.

5.2 Oracle Data Integration Suite

Oracle Data Integration Suite is a comprehensive software bundle for enabling scalable, highly-accessible data integration in any heterogeneous data environment. It can be separately licensed, independent of any Oracle Internet Application Server edition.

Oracle Data Integration Suite includes:

■ Oracle Data Integrator Enterprise Edition

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

5.2.1 Restricted-Use Licensing

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

■ Oracle WebLogic Suite is included as host for only 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.

5.3 Oracle Enterprise Data Quality

Oracle Enterprise Data Quality is a broad-based data quality platform. It includes the following products:

- Oracle Enterprise Data Quality Profiling for Oracle Data Integrator
- Oracle Enterprise Data Quality Batch Processing for Oracle Data Integrator

5.3.1 Oracle Enterprise Data Quality Profiling for Oracle Data Integrator

Oracle Enterprise Data Quality Profiling for Oracle Data Integrator enables business users to assess the quality, completeness, and usability of their data through interactive exploration. This can be used to determine appropriate data quality rules to be applied to the data.

5.3.2 Oracle Enterprise Data Quality Batch Processing for Oracle Data Integrator

Oracle Enterprise Data Quality Batch Processing for Oracle Data Integrator is a data quality platform that enables data parsing, standardization, match, merge, de-duplication, householding and name and address cleansing, as well as broad applicability to other data domains.

5.4 Oracle Data Profiling

Oracle Data Profiling enables business users to assess the quality of their data through metrics, to discover or infer rules based on this data, and to monitor the evolution of data quality over time.

Oracle Data Profiling has a prerequisite requirement that the license holder also owns a valid license for Oracle Data Integrator.

5.5 Oracle Data Quality for Data Integrator

Oracle Data Quality for Data Integrator is a comprehensive data quality platform that enables data standardization, match, merge, de-duplication, householding and name and address cleansing.

Oracle Data Quality for Data Integrator has a prerequisite requirement that the license holder also owns a valid license for Oracle Data Integrator.

5.5.1 Oracle Data Quality for Data Integrator: Up to a Maximum of 100 Million Records

Data Quality for Data Integrator is licensed using the Per Processor metric for up to a maximum of 100 million records per calendar year. Records are to be any distinct non-duplicated set of related data attributes identified by a unique key that are cleansed in the production environment.

One Oracle Data Quality Rules rule set is included in the Data Quality for Data Integrator (up to a maximum of 100 million records) license. Each additional rule set must be licensed separately.

5.5.2 Oracle Data Quality for Data Integrator: For Greater than 100 Million Records

Oracle Data Quality for Data Integrator (for greater than 100 Million Records) allows usage of Oracle Data Quality for Data Integrator over 100 million records per year. It is licensed using the Per 1000 Records metric. Records are to be any distinct

non-duplicated set of related data attributes identified by a unique key that are cleansed in the production environment.

5.6 Oracle Data Quality Rules for Data Integrator

Oracle Data Quality Rules for Data Integrator provide a set of pre-defined cleansing rules that extend Oracle Data Quality for Data Integrator capabilities explicitly for name and address cleansing for one or more countries.

Each Oracle Data Quality Rules for Data Integrator license gives the holder the capability to use these rules for one given country.

Rule Sets are available for the following countries and each Rule Set is licensed separately: Argentina, Australia, Austria, Belgium, Brazil, Brunei Darussalam, Canada, Chile, China, Colombia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hong Kong, Hungary, India, Ireland, Israel, Italy, Jamaica, Japan, Korea, Luxembourg, Malaysia, Mexico, Netherlands, New Zealand, Norway, Peru, Philippines, Poland, Portugal, Russia, Saudi Arabia, Singapore, South Africa, Spain, Sweden, Switzerland, Taiwan, Turkey, United Arab Emirates, United Kingdom, United States, and Venezuela.

5.7 Oracle Application Adapters for Data Integration

Oracle Application Adapters for Data Integration provide specific software components for reverse-engineering metadata and extracting bulk data from various ERP software applications. Each unique Application Adapter for Data Integration is licensed separately, but must be used with Oracle Data Integrator Enterprise Edition and the Data Integrator component.

Application Adapters for Data Integration are available for PeopleSoft, JD Edwards, E-Business Suite, Siebel, and SAP Applications. Each Application Adapter for Data Integration is licensed separately.

5.8 Oracle Application Adapters for Warehouse Builder

Oracle Application Adapters for Warehouse Builder provide specific software connectors for reverse-engineering metadata and extracting bulk data from various ERP software applications. Each unique 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 documented APIs, requires a license for Oracle Data Integrator Enterprise Edition.

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

5.9 Oracle GoldenGate

Oracle GoldenGate is a log-based, real-time change data capture (CDC) software platform that moves high volumes of transactional data between databases with very low latency, and allows logical data replication. A typical environment includes a capture, pump, and delivery process. Each of these processes can run on most of the popular operating systems. You can replicate all or a portion of your data, and you can even manipulate the data within any of these processes not only for heterogeneous environments but also different database schemas.

The Oracle GoldenGate product can be used in conjunction with Oracle GoldenGate for Non Oracle Database and/or with Oracle GoldenGate for Mainframe and/or with Oracle GoldenGate for Teradata Replication Services in order to achieve heterogeneous replication to an Oracle database from another third party database or from an Oracle database to another third party database.

The license for Oracle GoldenGate includes the ability to capture database transactions from Oracle Database and deliver database transactions to Oracle Database. It also includes a full use license for Oracle Active Data Guard and a full use license for XStream. Note that the capture and deliver features of Oracle GoldenGate work with any edition of the Oracle Database, while Active Data Guard and XStream require Oracle Database Enterprise Edition.

When Oracle GoldenGate is used in an Oracle to Oracle environment, it includes the following components:

- **XStream**, which is built on the infrastructure of Oracle Streams, provides application programming interfaces (APIs) that enable client applications to receive real-time data changes from an Oracle database (using XStream Out APIs) and to send real-time data changes to an Oracle database (using XStream In APIs). These data changes can be shared between Oracle databases and other systems, such as file systems and non-Oracle databases.

- **Oracle Active Data Guard** enables a physical standby database to be opened as read-only while changes are applied to it from the primary database, enabling read-only reporting on the physical standby with minimal latency between reporting and production data. Oracle Active Data Guard also allows backup operations to be off-loaded to the standby database using fast incremental backups. Oracle Active Data Guard provides the additional benefit of high availability and disaster protection by quickly failing over to the standby database in the event of a planned or an unplanned outage at the production site.

For more information about Oracle Active Data Guard and XStream functionality, see the Oracle Database 11.2 Documentation Library for High Availability.

5.10 Oracle GoldenGate for Non Oracle Database

Oracle GoldenGate is a log-based, real-time change data capture (CDC) software platform that moves high volumes of transactional data between databases with very low latency, and allows logical data replication. A typical environment includes a capture, pump and delivery process. Each of these processes can run on most of the popular operating systems. You can replicate all or a portion of your data, and you can even manipulate the data within any of these processes not only for heterogeneous environments but also different database schemas.

The Oracle GoldenGate for Non Oracle Database product can be used in conjunction with Oracle GoldenGate, which supports Oracle Databases, and/or with Oracle GoldenGate for Mainframe, and/or with Oracle GoldenGate for Teradata Replication Services in order to achieve heterogeneous replication. For example, it is possible to use Oracle GoldenGate for Non Oracle Database to capture from a third party database and use Oracle GoldenGate to deliver to an Oracle database, or any other heterogeneous combination.

The license for Oracle GoldenGate for Non Oracle Database includes the ability to capture database transactions from supported non-Oracle open systems databases and deliver database transactions to supported non-Oracle open systems databases.

5.10.1 Database Platform Availability

Oracle GoldenGate for Non Oracle Database 11*g* Release 1 is currently available for the following database platforms. A detailed certification matrix is available from Oracle Support Services.

- IBM DB2 database platform on Windows, UNIX, and Linux

- Microsoft SQL Server 2000, 2005, 2008

- Sybase on Windows, UNIX, and Linux

- Teradata on Windows, UNIX, and Linux

- MySQL on Windows, UNIX, and Linux

- TimesTen on Windows and Linux (only for delivery)

5.11 Oracle GoldenGate for Mainframe

Oracle GoldenGate is a log-based, real-time change data capture (CDC) software platform running on HP NonStop databases (Enscribe, SQL/MX, and SQL/MP) and DB2 running on z/OS that replicates high volumes of transactional data between homogeneous and heterogeneous database environments. All of the data or a portion of the data can be replicated, and you can even manipulate the data for not only heterogeneous environments but also unequal database schemas too.

The Oracle GoldenGate for Mainframe product can be used in conjunction with Oracle GoldenGate, which supports Oracle Databases, and/or with Oracle GoldenGate for Non Oracle Database, and/or with Oracle GoldenGate for Teradata Replication Services in order to achieve heterogeneous replication. For example, it is possible to use Oracle GoldenGate for Non Oracle Database to capture from a third party database and use Oracle GoldenGate to deliver to an Oracle database, or any other heterogeneous combination.

The license for Oracle GoldenGate for Mainframe includes the ability to capture database transactions from supported mainframe platforms and deliver database transactions to supported mainframe platforms.

5.11.1 SyncFile

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.

SyncFile is a component that manages non-database file duplication. For example, you may want to replicate configuration files, which are small and change infrequently. This is used for maintaining a secondary system that may have frequent database changes, but infrequent configuration file changes.

5.11.2 Database Platform Availability

Oracle GoldenGate for Mainframe 11*g* Release 1 is currently available for the following database platforms. Detailed certification matrix is available from Oracle Support Services.

- IBM DB2 database platform on z/OS

- IBM DB2 for i database platform (only for delivery from Windows using ODBC)

5.12 Oracle GoldenGate for Teradata Replication Services

Oracle GoldenGate is a log-based, real-time change data capture (CDC) software platform that moves high volumes of transactional data between databases with very low latency, and allows logical data replication. A typical environment includes a capture, pump, and delivery process. Each of these processes can run on most of the popular operating systems. You can replicate all or a portion of your data, and you can even manipulate the data within any of these processes not only for heterogeneous environments but also different database schemas.

The Oracle GoldenGate for Teradata Replication Services product can be used in conjunction with Oracle GoldenGate, which supports Oracle Databases, and/or with Oracle GoldenGate for Mainframe, and/or with Oracle GoldenGate for Teradata Replication Services in order to achieve heterogeneous replication. For example, it is possible to use Oracle GoldenGate for Teradata Replication Services to capture from a Teradata database and use Oracle GoldenGate to deliver to an Oracle database or any other heterogeneous combination. Oracle GoldenGate for Teradata Replication Services also allows homogeneous replication between a Teradata source and Teradata target.

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

5.13 Oracle GoldenGate Application Adapters

The following components are licensed together as part of the Oracle GoldenGate Application Adapter for Base24:

- **Oracle GoldenGate D24** — Allows transactional data to be synchronized bi-directionally in real time throughout the day. In the event of an outage on one system, the full transaction load is processed on the remaining systems, ensuring continuous availability.

- **Oracle GoldenGate N24** — Coordinates the notification message to all BASE24 satellite processes once the file refresh process has completed. Coordination is available for bidirectional configurations as well as unidirectional without the need to modify BASE24.

- **Oracle GoldenGate T24** — Does the following:

  – Resolves problems with moving tokenized or segmented data to other platforms and databases

  – Reorganizes and reformats the transaction log (TLF and PTLF) tokens for all transaction types into a configurable order

  – Also reorganizes and re-formats PBF and CAF segments into a defined flat structure that can be propagated into any supported database.

The following components are licensed together as part of the Oracle GoldenGate Application Adapter for JMS and Flat File:

- **Oracle GoldenGate for Flat File** — Used for file integration, predominantly for ETL, proprietary, or legacy applications. Oracle GoldenGate can write micro batches to disk to be consumed by tools that expect batch/file input. The data is formatted by Oracle GoldenGate to the specifications of the target application, for example, delimiter separated values, length delimited values, binary, etc. Near real-time feeds to these systems are accomplished by decreasing the time window for batch file rollover to minutes or even seconds.

- **Oracle GoldenGate for Java** — Allows customers to execute custom event handlers written in Java to process the transaction operations and metadata changes captured by Oracle GoldenGate on the source system. These custom Java handlers can apply these changes to a third-party Java API exposed by the target system.

5.13.1 Separately Licensed Adapters

Oracle GoldenGate Logger for Enscribe is licensed separately. This adapter provides the mechanism to capture changes on non-audited Enscribe platforms. Logger requires GGSLIB, an intercept library, that binds the Oracle GoldenGate application to the user's NonStop application. When an Enscribe operation (such as WRITE) executes, GGSLIB intercepts it and sends the record to Logger. Logger writes the records to the universal format log trail, which can then be processed like any other log-based source.

Each of the following application adapters for Oracle GoldenGate must also be licensed separately:

- Oracle GoldenGate for Application Adapter for Base24,

- Oracle GoldenGate Application Adapter for JMS and Flat File

- Oracle GoldenGate Application Adapter for Logger for Enscribe

5.14 Management Pack for Oracle GoldenGate

Management Pack for Oracle GoldenGate is a server-based product that features an intuitive graphical interface for centrally designing, configuring, managing, monitoring, and reporting on the Oracle GoldenGate processes implemented across the user's infrastructure. It includes Oracle GoldenGate Director, which allows organizations to easily monitor and manage their Oracle GoldenGate deployments.

5.14.1 Restricted-Use Licensing

A restricted-use license for Oracle WebLogic Server Standard Edition is included when you license Management Pack for Oracle GoldenGate. This restricted-use license permits Oracle WebLogic Server Standard Edition to be used only for hosting Java Enterprise Edition (Java EE) or Java application logic that is distributed as part of Management Pack for Oracle GoldenGate.

5.15 Oracle GoldenGate Veridata

Oracle GoldenGate Veridata is a high-speed data comparison solution that identifies and reports data discrepancies between databases without interrupting ongoing business processes. Using Oracle GoldenGate Veridata, companies can audit and verify large volumes of data across a variety of business applications with certainty, and maintain reliable data synchronization.

5.16 Oracle Data Service Integrator

Oracle Data Service Integrator provides the ability to do the following:

- Create canonical data service components for SOA

- Perform federated query capabilities from databases, Web services, and other sources

- Execute multi-target database updates

Oracle Data Service Integrator supplies fine-grained security with data redaction, and is natively accessible from the Oracle Service Bus product.

Oracle Data Service Integrator is separately licensed as a standalone product.

5.16.1 Restricted-Use Licensing

Oracle Data Service Integrator includes a restricted-use license for Oracle WebLogic Server Enterprise Edition as host for only 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.

6

Oracle Tuxedo Licensing

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

6.1 The Oracle Tuxedo Product Family

The Oracle Tuxedo product family includes the following components:

Oracle Tuxedo: 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.

The Tuxedo installation program can be used to install the following server and client components of Tuxedo:

Server components:

- 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

Client components:

- Oracle ATMI Workstation (/WS) client software

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

- Oracle Jolt client software

- Tuxedo.NET Workstation client software

- LLE and SSL encryption software

6.2 Separately Licensed Product Options for Oracle Tuxedo

The Oracle Tuxedo installation program includes several Tuxedo product options, described in the following table, that may be installed along with Oracle Tuxedo. However, the Oracle Tuxedo license does not extend to these product options. Each must be separately licensed prior to use.

Product Option	Description
Oracle 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 (TSAM)	Monitors system servers, application servers, and application transactions. Also provides end-to-end performance data and relevant statistics. TSAM reports collected data, such as service response times, utilization, and SLA violations by means of a centralized Web-based console.
	You must run a TSAM agent on each computer that you want to monitor and manage using TSAM Manager. Each TSAM agent must be licensed. You can run one or more instances of the TSAM Manager and its Console without any additional licenses.
Oracle Tuxedo Mainframe Adapters (SNA, TCP and OSITP)	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.
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.

7

Oracle Business Intelligence

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

- Section 7.1, "Oracle Business Intelligence Standard Edition"
- Section 7.2, "Oracle Business Intelligence Publisher"
- Section 7.3, "Business Intelligence Management Pack"
- Section 7.4, "Oracle Business Intelligence Discoverer Desktop"

7.1 Oracle Business Intelligence Standard Edition

Oracle Business Intelligence can be separately licensed, independent of any Oracle Application Server edition. Oracle Business Intelligence is also included in Oracle Application Server Enterprise Edition.

When you license it independently, Oracle Business Intelligence includes:

- Oracle Business Intelligence Discoverer Plus
- Oracle Business Intelligence Discoverer Viewer
- Oracle Discoverer Administrator
- Oracle Business Intelligence Discoverer Desktop
- Oracle Business Intelligence Discoverer Portlet Provider
- Oracle Reports Services
- Oracle Warehouse Builder
- Oracle Spreadsheet Add-in
- Oracle Enterprise Manager Fusion Middleware Control
- Oracle Data Miner

In order to use the Oracle Business Intelligence 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 offering.

7.1.1 Restricted-Use Licenses

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

- Oracle Internet Developer Suite is provided for use with Oracle Reports Builder and Discoverer Administrator 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, described in Appendix A, is provided as the Java Enterprise Edition (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.

> **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 a metadata repository.
>
> - If the computer on which your existing database is running does not run any other Oracle Application Server installations, there is no Oracle Application Server license requirement for that computer.
>
> - Installing the metadata repository 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.

7.2 Oracle Business Intelligence Publisher

Oracle Business Intelligence Publisher is a Java-based tool that allows users to convert XML into other document types, such as Adobe Acrobat and Microsoft Word.

7.2.1 Restricted-Use Licenses

The following restricted-use licenses are included when you separately license Oracle Business Intelligence Publisher:

- Oracle Containers for J2EE (OC4J) is provided for running Oracle Business Intelligence Publisher only.

7.3 Business Intelligence Management Pack

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). 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.

The following sections summarize key features and installation information.

7.3.1 Features

The Business Intelligence Management Pack includes the features shown in Table 7–1.

Table 7–1   Feature Highlights of Oracle Business Intelligence Pack

Feature	Benefit
Dashboards and reports	Visualize in one stop the health status of the BI environment.
Alert notifications	Provide proactive management to improve performance and availability.
Historical metrics	Measure a wide range of usage and performance metrics for monitored Oracle BI targets, send out alerts when these metrics exceed or nearly exceed pre-defined thresholds, and diagnose performance problems by identifying bottlenecks in any of the monitored Oracle BI targets.
Blackouts	Suppress unnecessary alerts during maintenance windows, and provide more accurate availability reporting.
O/S monitoring	Provide complete end-to-end management of the application environment.
Automatic discovery	Speed up the management pack setup for quicker time-to-benefit.
Configuration snapshot	Allow known effective configuration information to be retained for future analysis. Save configurations to a configuration file (XML file) or to the Management Repository.
Configuration comparison	Get quicker configuration diagnostics. Use Configuration Comparison to: ■ Replicate configuration in development/staging to production. ■ Make sure that configuration settings amongst Oracle BI components in a clustered environment are consistent.
Change history	Search collected configuration data and view the history of configuration changes for diagnostic and regulatory purposes.

7.3.2 Installation and Licensed Links

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

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

7.4 Oracle Business Intelligence Discoverer Desktop

Oracle Business Intelligence Discoverer Desktop is a data access tool. You use it to view the information in your company's databases. The purpose of Discoverer Desktop is to help you — the business professional — view the data you want from a database, analyze it to support your business decisions, and create reports to keep track of things.

8

Oracle WebCenter

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

- Section 8.1, "The Oracle WebCenter Product Family"
- Section 8.2, "Oracle Management Pack for WebCenter"
- Section 8.3, "Additional Considerations for the Restricted Use Licenses Included in Oracle WebCenter Portal"
- Section 8.4, "WebCenter Licensing with Oracle Internet Application Server"
- Section 8.5, "Oracle WebCenter Real-Time Collaboration"
- Section 8.6, "High Availability Considerations"

8.1 The Oracle WebCenter Product Family

The following tables describe the functionality provided by members of the Oracle WebCenter product family. Table 8–1 describes the functionality provided by the core products. Table 8–2 describes the functionality provided by the adapters.

Table 8–1   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 8–1   (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: Unified Business Process Management Suite for modeling, executing and monitoring processes that are initiated from WebCenter Content Components only. ■ Restricted Use: Information Rights Management can only be used in conjunction with WebCenter Content. All sealing must be initiated by WebCenter Content components. ■ 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: BPEL Process Manager for creating workflows/processes within and between WebCenter Content components only. ■ 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 8–1 (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 **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 8–1   (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 Content Conversion	Oracle WebCenter Content Conversion provides content conversion services in support of Content Server.	**WebCenter Content Conversion included products:** ■ 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 System Components ■ 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.

Table 8–1 (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: 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 8–2 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

8.2 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.

8.3 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 8–1:

- **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.

8.4 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."

8.5 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

8.6 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.

8.6.1 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

9

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 9.1, "Oracle Entitlements Server"
- Section 9.2, "Oracle Entitlements Server Security Module"
- Section 9.3, "Oracle Directory Services Plus"
- Section 9.4, "Oracle Access Manager"
- Section 9.5, "Oracle Adaptive Access Manager"
- Section 9.6, "Oracle Identity Federation"
- Section 9.7, "Oracle Identity Manager"
- Section 9.8, "Oracle Identity Manager Connectors"
- Section 9.9, "Oracle Role Manager"
- Section 9.10, "Oracle Information Rights Management"
- Section 9.11, "Oracle Enterprise Single Sign-On Suite Plus"
- Section 9.12, "Oracle Access Management Suite Plus"
- Section 9.13, "Oracle Enterprise Gateway for Access Management"
- Section 9.14, "Oracle Identity and Access Management Suite Plus"
- Section 9.15, "Management Pack for Identity Management"
- Section 9.16, "Oracle Database License Requirements"
- Section 9.17, "Oracle Identity Analytics"

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

9.1 Oracle Entitlements Server

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

9.1.1 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.

9.2 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).

9.3 Oracle Directory Services Plus

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

- Oracle Internet Directory (including Delegated Administration Services and Directory Integration Platform). These components are described in Section 1.3.2.2.2, "Oracle Identity Management."

- Oracle Virtual Directory

- Oracle Directory Server Enterprise Edition

- Oracle Directory Services Manager

- Oracle Unified Directory

9.3.1 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.

9.4 Oracle Access Manager

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

9.4.1 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.

9.5 Oracle Adaptive Access Manager

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

9.5.1 Restricted-Use Licenses

The following restricted-use licenses are included when you separately license Oracle Adaptive 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 Adaptive 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.
- User Messaging Service for 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.

9.6 Oracle Identity Federation

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

9.6.1 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.

9.7 Oracle Identity Manager

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

9.7.1 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.

9.8 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
- IBM Lotus Notes/Domino
- IBM OS/400
- IBM RACF
- JDEdwards EnterpriseOne
- Microsoft Active Directory
- Microsoft Exchange
- Microsoft Windows
- Novell eDirectory
- Novell Groupwise
- Oracle e-Business
- Oracle Internet Directory
- Oracle Retail
- PeopleSoft Enterprise Applications

- RSA Authentication Manager
- RSA ClearTrust
- SAP Enterprise Applications
- SAP Enterprise Portal
- Siebel Enterprise Applications
- Sun Java System Directory
- UNIX

9.9 Oracle Role Manager

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

9.9.1 Restricted-Use Licenses

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

- BPEL Process Manager for creating workflows where Role Manager 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.

- 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 Role 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.

9.10 Oracle Information Rights Management

Oracle Information Rights Management can be separately licensed, independent of any Oracle Application Server or WebLogic edition.

9.10.1 Restricted-Use Licenses

There are no restricted-use licenses included when you separately license Oracle Information Rights Management

9.11 Oracle Enterprise Single Sign-On Suite Plus

Oracle Enterprise Single Sign-On Suite Plus (ESSO Suite Plus) can be separately licensed, independently 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

9.11.1 Restricted-Use Licenses

The following restricted-use licenses are included when you separately license Oracle Enterprise Single Sign-On 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.

9.12 Oracle Access Management Suite Plus

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

- Oracle Access Manager
- Oracle Adaptive Access Manager
- Oracle Entitlements Server
- Oracle Identity Federation
- Oracle Information Rights Management
- Oracle OpenSSO Fedlet
- Oracle Security Token Service (STS)

9.12.1 Restricted-Use Licenses

The following restricted-use licenses are included when you separately license Oracle 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 Access Management Suite 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 Web Services Manager (OWSM) is included as part of Access Management Suite Plus. However, any use of OWSM must be performed in conjunction with one of the other products within the Access Management Suite Plus SKU. In addition, only one or more of the following uses of OWSM is permitted:

  - Authentication — Oracle Web Services Manager requires integration with Oracle Access Manager for authentication.

  - Authorization — Oracle Web Services Manager requires integration with Oracle Entitlements Server for authorization.

  - Federation — Oracle Web Services Manager requires integration with Oracle Identity Federation for federation.

  - Oracle Web Services Manager agents acting as a WS-Trust client to the OpenSSO STS server

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Note: If a product included in Oracle Access Management Suite Plus has restricted-use licenses (for example, Oracle Access Manager), those restricted-use licenses remain in effect when you separately license Oracle Access Management Suite Plus.

9.13 Oracle Enterprise Gateway for Access Management

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

- Oracle Enterprise Gateway for Access Management Policy Center

- Oracle Enterprise Gateway for Access Management Policy Studio

- Oracle Enterprise Gateway for Access Management Service Explorer

- Oracle Enterprise Gateway for Access Management Service Manager

- Oracle Enterprise Gateway for Access Management Service Monitor

9.14 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 Authorization Policy Manager

- Oracle Directory Services Plus (see Section 9.3, "Oracle Directory Services Plus")

- Oracle Identity Federation

- Oracle Identity Manager

- Oracle OpenSSO Fedlet

- Oracle Security Token Service (STS)

- Oracle Single Sign-On (see Section 1.3.2.2.2, "Oracle Identity Management")

9.14.1 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.

9.15 Management Pack 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 Virtual Directory

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.

9.16 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).

9.16.1 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

9.16.2 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

9.16.3 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

9.17 Oracle Identity Analytics

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

- 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.

- 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 Analytics, 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.

10

Oracle Application Specific Technology Products

This chapter covers licensing for Oracle Application Specific Technology products. The following sections are included:

- Section 10.1, "Overview"
- Section 10.2, "License Requirements"

10.1 Overview

Oracle Application Specific Technology products are designated by the suffix "for Oracle Applications" and are limited to use with eligible Oracle Applications. 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 Identity and Access Management Suite Plus for Oracle Applications
- Oracle In-Memory Database Cache 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

For a complete list of the Oracle Applications with which Oracle Application Specific Technology products may be licensed, see the Applications Licensing Table at the following URL:

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

10.2 License Requirements

Each Oracle Application Specific Technology product contains the same features as its full use counterpart, but is restricted for use only with the eligible Oracle Application for which it is licensed.

The following Oracle Application Specific Technology products have additional license requirements, described in Table 10–1:

- Oracle Application Management Pack for Oracle Fusion Applications
- Oracle BPEL Process Manager Option for Oracle Applications
- Oracle Business Intelligence Foundation Suite for Oracle Applications
- Oracle Coherence Enterprise Edition for Oracle Applications
- Oracle Data Integrator Enterprise Edition for Oracle Applications
- Oracle Identity and Access Management Suite Plus for Oracle Applications
- Oracle SOA Suite for Oracle Middleware for Oracle Applications
- Oracle WebLogic Suite for Oracle Applications
- Oracle WebCenter Imaging for Oracle Applications
- Oracle WebCenter Portal for Oracle Applications

Table 10–1   Additional License Requirements for Application Specific Technology Products

The following product . . .	May be used only for the following . . .
Oracle Application Management Pack for Oracle Fusion Applications	Application Management Pack for Oracle Fusion Applications can only be licensed with WebLogic Suite/WebLogic Suite for Oracle Applications, together with the SOA Suite for Oracle Middleware/SOA Suite for Oracle Middleware for Oracle Applications and must match the number of licenses to the associated WebLogic Suite/WebLogic Suite for Oracle Applications and the SOA Suite for Oracle Middleware/SOA Suite for Oracle Middleware for Oracle Applications.
Oracle BPEL Process Manager Option for Oracle Applications	Oracle BPEL Process Manager Option for Oracle Applications may be used only to enable business processes, workflow interactions and approvals within eligible Oracle Applications. Workflow interactions between eligible Oracle Applications and, other Oracle Applications or third party applications are allowed as long as they are enabled/initiated within the eligible Oracle Applications. Business Processes defined in BPEL are allowed as long as at least one of the services invoked from within the Business Process access an eligible Oracle Application either natively (via Web Services) or via an adapter.
Oracle Business Intelligence Foundation Suite for Oracle Applications	Oracle Business Intelligence Foundation Suite for Oracle Applications may be used only to perform query, reporting and analysis against a transaction database, data warehouse or an Essbase OLAP cube if: (i) the transaction database is an eligible Oracle Applications transaction database itself or an extraction, in whole or in part, of an eligible Oracle Applications transaction database, without transformation (query, reporting and analysis against a transaction database that is not an eligible Oracle Applications transaction database requires a full use license of Oracle Business Intelligence Foundation Suite); or (ii) the data warehouse is a pre-packaged eligible Oracle Applications data warehouse, with any customizations necessary to reflect customizations made in the eligible Oracle Applications, and restricted only to the eligible Oracle Applications sources (query, reporting and analysis against extensions to the data warehouse drawn from source systems not supported by the pre-packaged data warehouses require a full use license of Oracle Business Intelligence Foundation Suite); or (iii) the dimensions of each Essbase OLAP Cube are sourced from eligible Oracle Applications.

Table 10–1   (Cont.) Additional License Requirements for Application Specific Technology Products

The following product . . .	May be used only for the following . . .
Oracle Coherence Enterprise Edition for Oracle Applications	Coherence Enterprise Edition for Oracle Applications is limited for use within the same JVM as the Oracle Applications components.
Oracle Data Integrator Enterprise Edition for Oracle Applications	Data Integrator Enterprise Edition for Oracle Applications may only be used with the Oracle supplied data integration jobs and customization of the supplied jobs is allowed. For the avoidance of doubt, examples of uses that are not permitted include, but are not limited to, the following: adding new jobs that support different applications, new schemas, or previously unsupported application modules.
Oracle Identity and Access Management Suite Plus for Oracle Applications	Oracle Identity and Access Management Suite Plus for Oracle Applications may be used only to perform associated actions for users of and within the eligible Oracle Applications. Oracle Identity and Access Management Suite Plus for Oracle Applications may be used to do the following: (1) add, delete, modify, and manage user identities and roles in the eligible Oracle Applications; (2) provide web access management and single sign-on into eligible Oracle Applications; (3) provide data storage—or virtualization to data storage—of user identities and user identity related information or authentication and authorization policies for eligible Oracle Applications; (4) provide federated single sign-on to eligible Oracle Applications.
Oracle SOA Suite for Oracle Middleware for Oracle Applications	Oracle SOA Suite for Oracle Applications may be used only to enable integration, business processes, workflow interactions and approvals within eligible Oracle Applications. Workflow interactions between eligible Oracle Applications and other Oracle applications or third party applications are allowed as long as they are either initiated or terminated within eligible Oracle Applications. Usage of SOA composites (including but not limited to Rules, Mediator, XSLT transforms, BPEL processes, Spring components, Workflow services and OWSM security policies) is allowed as long as at least one of the services invoked from within each composite accesses an eligible Oracle Application either natively (via Web services) or via an adapter. Oracle Service Bus (OSB) usage is allowed as long as each service deployed accesses an eligible Oracle Application either natively (via Web services) or via an adapter.
Oracle WebLogic Suite for Oracle Applications	Oracle WebLogic Suite for Oracle Applications may be used only as an embedded runtime for eligible Oracle Applications or to deploy customizations to an eligible Oracle Application. The WebLogic global datasource or one of the WebLogic application datasources must be configured to access the schema of an eligible Oracle Application.
Oracle WebCenter Portal for Oracle Applications	Oracle WebCenter Portal for Oracle Applications can be used only to surface the eligible Oracle application and custom applications. Surfacing any third-party applications, including other applications from Oracle, requires a full-use license. Multiple eligible Oracle applications can be surfaced in a single portal instance provided that a WebCenter Portal for Oracle Applications license exists for each eligible application surfaced in the portal. WebCenter Portal for Oracle Applications can be used to integrate the various WebCenter Services (Wikis, Blogs, Discussions, etc.) into an application context, as well as build out custom workflows and notifications between the eligible Oracle application and WebCenter Portal components. The content management features can be used to store and manage documents created outside the eligible application provided that they are related to the eligible application or application context.
Oracle WebCenter Imaging for Oracle Applications	Oracle WebCenter Imaging for Oracle Applications may be used to create and modify imaging searches, modify pre-packaged imaging application document types, and create and modify input mappings to imaging applications. Imaging can also invoke Web service APIs from Oracle Application workflows. A full-use license of WebCenter Imaging is required to define new document types for the management of images unrelated to a pre-packaged Oracle Applications integration, develop custom workflows, and invoke APIs from custom workflows or custom application integrations.

11

Base Enterprise Manager Functionality

The release of Oracle Enterprise Manager Cloud Control 12*c* makes several licensing changes. Features that were part of licensed packs are now included in the base functionality. This chapter outlines the list of features that are included with the base functionality of Oracle Enterprise Manager.

Base Framework Features

The following items are included as part of Enterprise Manager Cloud Control 12*c* Framework:

Feature Summary		
EM user, role and credentials management	Incident management, viewing alerts and metric threshold management (excludes notifications)	Reporting, job system and software library (items under these may be licensed under Packs)
Agent provisioning and patching	Groups and systems management	Target discovery (Network and agent-based)
Target Configuration (limited to current configuration only)	My Oracle Support integration	Self-update of plug-ins (functionality in plug-ins may be licensed under Packs)

Base Database Management Features

The following items are included as part of Enterprise Manager Cloud Control 12*c* database management features:

Feature Summary		
Schema, user and role management	Optimizer Statistics and Resource Management	ASM and Clusterware management
Tablespace, log files and undo management	Backup and recovery management (includes MAA Advisor)	Data pump, streams and replication management
Alert log management and Support Workbench	Advisor and Scheduler Central	SQL Worksheet

Base Middleware Management Features

The following items are included as part of Enterprise Manager Cloud Control 12*c* Middleware management:

Feature Summary	
All Fusion Middleware targets Home page (except JVM Diagnostics): ■ WebLogic Domain ■ Fusion Middleware Farm ■ SOA Infrastructure	Support Workbench

Server, Storage, and Virtualization Management Features

The following sections include features of Enterprise Manager Cloud Control 12*c* server and virtualization management.

Cloud Control Features

Cloud Control includes the following features:

Feature	Description
Administration	Provide remote administration capabilities for hosts.
Advanced alert management	Provide notification methods, rules, and schedules, metric history and associated drill-downs, ability to set blackouts, associate corrective actions with an alert, user-defined metrics, metric snapshots, and monitoring templates.
All menu items under Infrastructure Cloud	Provide ready access to Home, Self-Service, Request Dashboard pages.
Configuration management	Provide hardware and software configuration data collection, search, comparison, and analytical reporting.
Consolidation Planner	Determine optimal server consolidation scenarios by leveraging data collected by Cloud Control against business and technical constraints.
Controlling/Service Domain	Configure Oracle VM Server for SPARC controlling or service domain attributes and monitor resource consumption. Manipulate vdisk allocation to VMs post-creation.
Dynamic Resource Allocation	Provide for real-time changing of allocated resources using Oracle Solaris Container and Oracle VM Server for SPARC technology.
Dynamic Topology	Maintain the child-to-parent relationship between the service processor, hypervisor, global zone, control domain, and virtual machine.
Guest VM patching	Provide automated host patching and integration with an Unbreakable Linux network (ULN).
Historical Trending	View historical workload trends for Oracle Solaris Zones against one another on a central graph.
Host monitoring and management	Monitor of Cloud Control component services, such as jobs and notifications.

Feature	Description
Hypervisor/OS Provisioning	Provide default templates for the creation of Oracle VM Server for SPARC controlling domain configuration. Ensure compatibility between embedded hypervisor components in the firmware and the bare metal OS layers above.
Image Library Management	Maintain ISO and Oracle Solaris Flash Archive (FLAR) images for both physical and virtual provisioning.
Monitoring Profiles for V12N	Provide monitoring attributes for issues associated with Oracle VM Server for SPARC and Oracle Solaris Container environments.
Network Configuration	Provide network topology in VM creation wizards that result in more redundant configurations based on IP multi-pathing and VLAN tagging.
Oracle Solaris Container Management	Provide full life-cycle management, including discovery, create, delete, configure, boot, shutdown, and monitor.
Oracle Solaris Global Zone	Configure global zone resource allocation and monitor resource consumption.
Oracle Solaris Zones and Patch Management	Facilitate "update on attach" actions as zones are migrated around to different global zones.
Oracle VM and Guest VM provisioning	Deploy Oracle VM to bare metal servers and create Guest VMs.
Oracle VM Server for SPARC	Provide full life-cycle management, including discovery, create, delete, configure, boot, shutdown, and monitor.
Oracle VM management including Oracle VM manager and self-service console (IaaS manager)	Manage environment requests to allow for more storage.
Oracle VM-template based provisioning	Manage applications and required resources based on service level requirements, etc.
Performance monitoring	Provide real-time and historical performance monitoring.
Policy management	Ensure consistency of deployments and adherence to operation standards. Includes policy violation notifications.
Resource Virtual Pools	Construct T-series server group and manage the network configuration and shared storage, auto-balance the workload, and view historical aggregations of performance metrics.
Storage Orchestration	Automatically facilitate the use of Oracle Sun ZFS Storage Appliances in the Oracle Solaris Container and Oracle VM Server for SPARC environments.
Storage Plug-in	Manage storage assets more effectively.
Technology Abstraction Layer	Use M-series dynamic hardware domains, T-series Oracle VM Server for SPARC, and Oracle Solaris Zones, and create complex operational plans.

Ops Center Features

Oracle Enterprise Manager Ops Center provides the most comprehensive management across Oracle servers, storage, network devices, operating systems, and Oracle Solaris virtualization technologies while dramatically improving the efficiency of IT operations with its integrated life-cycle management and built-in automation. Ops Center is the best solution on the market today for Oracle infrastructure management.

Ops Center provides full life-cycle management of virtual guests, including resource management and mobility orchestration. It helps customers streamline operations and reduce downtime. Ops Center provides an end-to-end management solution for both physical and virtual systems. From Oracle Solaris Zones to Oracle VM Server for SPARC, Ops Center offers the right combination of granular control and workload abstraction for a complete hardware and software solution.

Ops Center includes the following features:

Feature	Description
Alarm Management	Provide alert correlation and aggregation. Open a Service Request with My Oracle Support.
Asset Management	Manage distributed assets from the same console. Provide new hardware asset reporting down to the field replaceable unit (FRU) part number.
Audit Reporting	Track software and configuration changes made with Ops Center through easily read reports.
Bare Metal OS Provisioning	Automate Kickstart, Jumpstart, YAST, and DHCP configuration for the remote light-out provisioning of servers. Create profiles to capture finish scripts and customization.
Cloud Control Integration	Provide integration between Enterprise Manager Cloud Control and Ops Center. Discover targets and view alarm information. View hardware, OS, and virtualization information.
Complex Plan Management	Create in-depth workflow plans by nesting server provisioning tasks into a comprehensive string of events.
Compliance Automation	Provide reporting capabilities to schedule tests against target nodes, point-in-time comparisons, operational policies, or self-made software profiles.
Disconnected Mode	Provide choice to remain connected to Oracle to receive knowledge transfer automation and protection, or to run in disconnected mode from Oracle.
Energy Awareness	View historical and real-time energy consumption of individual servers or groups of servers in both Watt (W) and KwH in terms of cost. View CPU utilization, temperature, and fan RPM trending.
Enhanced OS Patching	Minimize downtime originating from software life cycles activities.
Firmware Provisioning	Automatically download firmware for servers and storage appliances, including Service Processor, RAID HBA cards, and drive firmware.
Hardware Management	Provide hardware monitoring across the Oracle T-series, M-series, X-series, Network Appliances, and Storage Appliances. Provide integration with Oracle Solaris FMA.
Historical Monitoring	Provide a view of past trends in monitored performance attributes.
M-series Dynamic Domains	Create provisioning plans that control the configuration of dynamic hardware domains.
My Oracle Support Integration	Provide integration to My Oracle Support. Automatically open service requests and validate assets. View service request status updates.

Feature	Description
Network Fabric Monitoring	Discover, map, and view Oracle 10GBe and Infiniband Switches, NEMs, and HBA devices from the server point of view.
Operational Plans	Set alarm thresholds on any attribute in the product and house them in a monitoring profile that can be provisioned across multiple boxes. Allow for ad-hoc actions and scripts to be run and their output captured.
Oracle Solaris Cluster Support	Discover an Oracle Solaris Cluster environment provide full coverage of Oracle Solaris Cluster software in the Ops Center knowledge repository.
Oracle Sun ZFS Storage Appliances	Discover Oracle Sun ZFS Storage Appliances properly in the topology and provide a view of configuration and service information of the device.
OS Performance Monitoring	Provide Oracle Solaris and Linux OS performance monitoring, both real-time status of attributes and historical charting.
RAID Device Configuration	Provide pre-OS installation and RAID device configuration.
Role Based Access Control	Provide roles that control a user's access, which can be granted universally or for specific groups of assets.
Windows Support	Provide comprehensive Windows patching integration with Microsoft System Center Configuration Manager.

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 Internet Application Server Standard Edition One
- Oracle Internet Application Server Enterprise 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 EE 5/EJB 3.0

- 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

- Streamlined storing of important objects to data stores, available to all Java applications and a core component of EJB 3.0

- 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."

Table A–1 (Cont.) WebLogic Server Basic License Feature Constraints

Feature Category	Summary of Restrictions in WebLogic Server Basic License
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."
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 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, UDDI and Xquery Support, WebLogic Server examples, Oracle Enterprise Pack for Eclipse, and Sun or Oracle JRockit JDKs (depending on platform).

The HTTP Publish-Subscribe Server is excluded from the license for WebLogic Server Basic. To ensure that this component is not installed, do the following when running the installation program:

1. In the Choose Install Type window, in which you specify whether you wish to have a complete or a custom installation, choose **Custom**.

2. In the Choose Products and Components window, deselect **Web 2.0 HTTP Pub-Sub Server**.

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 EE 5 introduces 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

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 J2EE (OC4J). Products outside of this scope do not 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 J2EE (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.
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 J2EE (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.