



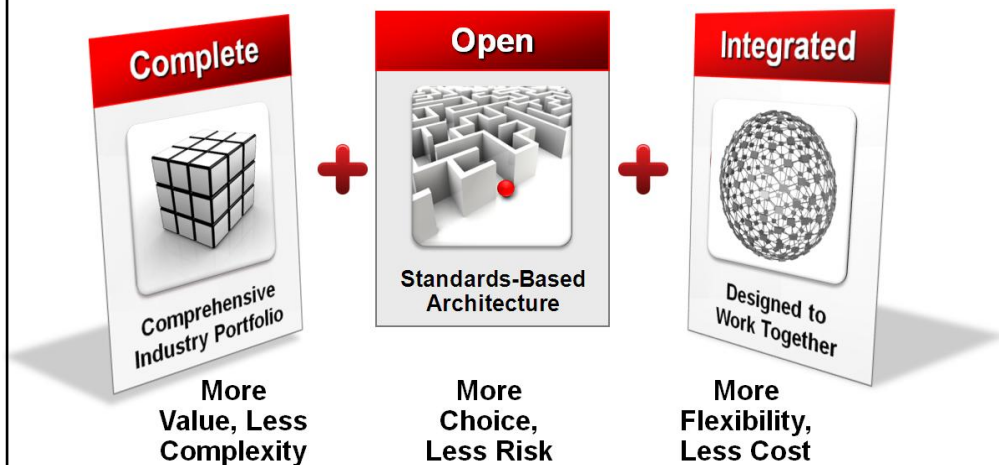
- **The Oracle Technology Infrastructure** supports all of the widely used solutions across the leading hardware platforms, operating systems, architectures, and applications.
- **Oracle Corporation is the world's largest** enterprise software company. Oracle invests over \$3 billion per year in R&D. Oracle employs over 84,000 people, including over 20,000 in development, 16,000 in consulting/education, and 7,500 in product support.
- **Sun Oracle Database Machine powered by** Oracle Exadata Smart Storage, Oracle's 11gR2 database, and FlashFire technology is the world's fastest machine for both OLTP and data warehousing.
- **Oracle Fusion Applications are Oracle's** next generation business applications, evolving from the best of PeopleSoft, JD Edwards, Retek, Siebel, Hyperion, and Oracle E-Business Applications.
- **Oracle Support is our award-winning** support organization. Oracle Support provides best-in-class service and innovative features like Applications Unlimited and Lifetime Support.
- **Oracle Financing offers financing and** leasing solutions that help you decrease acquisition/ownership costs and accelerate the benefits of Oracle-based solutions.

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## Oracle Technology Overview

At Oracle, we not only understand where technology trends are headed; we're defining and driving those trends in key markets such as enterprise applications, middleware, and information management. Oracle's strategy reflects that deep market understanding, and is built upon three main pillars: **Complete, Open, and Integrated.**



**Complete: Comprehensive Portfolio** – Complete breadth and depth of the solutions across industries with an integrated tech stack.

**Open: Standards-Based Architecture** – Build to open industry and technology standards. Ideal for heterogeneous environments.

**Integrated: Designed to Work Together** – Integrated architecture allowing easier interactions within and across enterprises.



## Spotlight: Applications-to-Disk

Oracle is the world's largest enterprise software company, and the acquisition of Sun has made it the only company that can deliver a complete, open, and integrated IT stack to its clients. The Oracle stack includes every software and hardware technology needed to manage business information and streamline business processes, and because the Oracle stack is open and integrated, it reduces IT complexity and increase its TCO.



**Oracle Applications** - The leading companies in every industry around the world rely on Oracle applications. Oracle has assembled the world's most complete and open portfolio of business solutions, making it the leader in business applications software. Industry-specific and horizontal business applications are complete, best-in-class solutions based on an open, standards-based architecture.

**Oracle Fusion Middleware** - The Oracle Fusion Middleware suite of standards-based software is the leading software infrastructure for building and deploying enterprise applications to provide better quality information and streamlined processes. Fusion Middleware creates scalable enterprise and web applications, and integrates different systems together to automate business processes. It also includes management technologies that extract information, and store it in repositories that enable sharing through Oracle's Enterprise 2.0 approach, secured with Oracle identity management.

**Oracle Database** - The innovative, industry-leading Oracle Database delivers the highest levels of performance, scalability, and reliability in the market today. Powerful Database Options such as Real Application Clusters provide enhanced availability and scalability for customers' most mission critical environments. And Oracle Database enables companies to securely maintain service levels as their businesses grow, and they upgrade and consolidate systems with the Oracle grid infrastructure.

**Oracle Operating Systems** - Oracle provides operating systems that form a stable, scalable core for all levels of the Oracle stack. Oracle Enterprise Linux delivers the most compatible and stable Linux available, and Oracle Unbreakable Linux support is available for any Linux edition. The Oracle Solaris OS is the innovative and uniquely flexible Unix operating system used to power Sun Servers.

**Oracle Virtualization** - Virtualization and operating systems options of the Oracle stack provide complete desktop-to-datacenter strategies that optimize computing resources. Oracle VM, Oracle Clusterware 11g, Oracle Real Application Clusters, Oracle Automatic Storage Management, and Oracle Sun Storage Virtualization, create large, scalable, reliable, datacenter and cloud computing environments that are readily managed with Oracle Enterprise Manager. Oracle VM VirtualBox creates desktop virtualization, while Oracle VDI software creates virtual desktop environments.

**Sun Servers** - Oracle Sun servers are a comprehensive, scalable line of systems based on industry-leading SPARC, UltraSPARC, Intel Xeon, and AMD Opteron processors to reliably meet every business requirement, now and in the future. Sun servers are cost-effective, eco-responsible solutions built in a variety of form factors and custom configurations for maximum customer benefit.

**Sun Storage** - Oracle's Sun Open Storage combines industry-standard hardware and open source software to deliver, reliable, scalable, and flexible, high-performance hierarchical disk storage environments to enterprise datacenters with breakthrough economics. Oracle StorageTek tape libraries, tape virtualization, tape drives, tape media, and tape software, deliver the tape solutions enterprises need to meet today's unprecedented growth in data volumes and archiving requirements.



# Spotlight: Oracle Exadata Storage and Sun Oracle Database Machine

The **Sun Oracle Database Machine** is the world's fastest for any type of database workload, and the only database machine that runs transaction processing applications. It is a complete package of software, servers, storage and networking for all data management, including data warehousing, transaction processing and consolidated mixed application workloads. The Sun Oracle Database Machine also includes Sun's new FlashFire technology to cache 'hot' data for dramatically improved transaction response times and throughput. With the Sun Oracle Database Machine, customers can consolidate all their database applications, store up to ten times more data, search data up to ten times faster, and make faster business decisions in real time without making changes to applications.

- **Extreme Performance for Data Warehouses**—Improves both query performance and concurrency by offloading intensive query processing and data mining scoring from database servers and bringing it closer to the data.
- **Extreme Performance for OLTP Applications**—Addresses the disk random I/O bottleneck problem by transparently moving hot data to Sun FlashFire. You get ten times faster I/O response time and use ten times fewer disks for business applications from Oracle as well as third-party providers.
- **Extreme Performance for Mixed Workloads**—Allows you to consolidate data warehousing, transaction processing, and mixed workloads on a massively parallel server grid and eliminate the cost of third-party specialty hardware, security, and management solutions.



<http://www.oracle.com/exadata>



# Spotlight: Oracle and Acquisitions

By combining with strategic companies, Oracle strengthens its product offerings, accelerates innovation, meets customer demand more rapidly, and expands partner opportunity. An integral part of Oracle's Mergers and Acquisitions philosophy is its consistent commitment to customer service and product support while achieving our financial return objectives and creating value for our shareholders.

Oracle's acquisitions help us meet our customers demand by:

- **Broadening Oracle's Enterprise Business Applications Coverage**
- **Expanding Oracle's Industry Specialization**
- **Broadening Oracle's Technology Coverage**

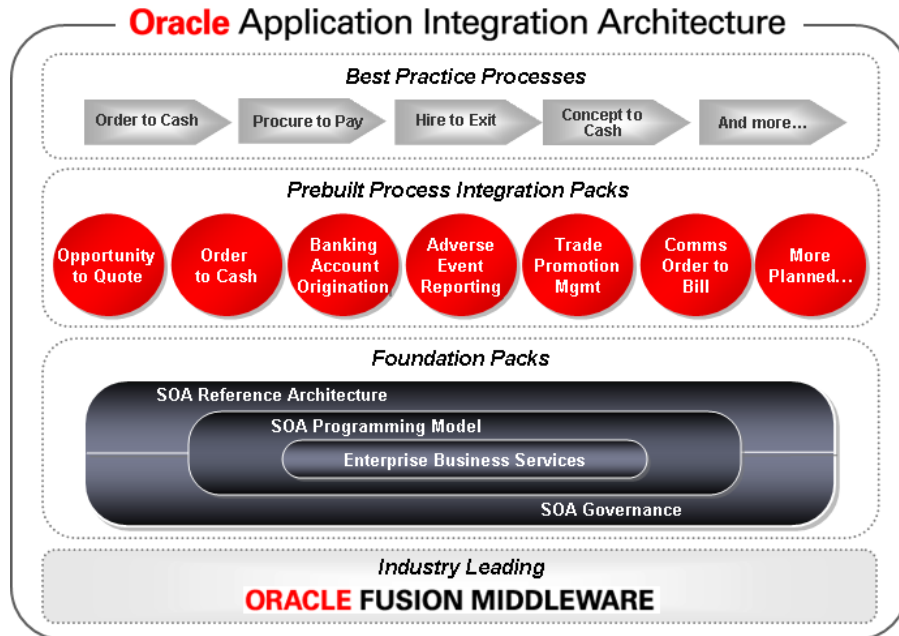
	Applications	Technology
Enterprise Deals	PeopleSoft. SIEBEL	Enterprise Deals bea Sun microsystems
Manufacturing Industries	G Demantra agile	Performance Management Hyperion HyperRoll Interlace Systems
Retail Industry	Retek Oracle Retail Technology ProfitLogic 360Commerce	Identity Management Bridgestream THOR TECHNOLOGIES OCTETSTRING oblix Bharosa
Comms Industry	PORTAL META SOLV SOFTWARE netsure hot-sp Net 4 Call work	Content Management STELLENT™ context media Captivation
Banking Industry	i-flex MANTAS	Middleware TANGOSOL GOLDENGATE Sunopsis
Utilities Industry	SPL LODESTAR CORPORATION	Database TimesTen SLEEPYCAT SOFTWARE TRIPLE HOP TECHNOLOGIES InnoDB
Insurance Industry	AdminServer skywire	Systems Management MONIFORCE mValent ClearApp e-TEST suite VirtualIron Auptyma The Peak of Performance ACTIVE REASONING
Project-Intensive Industries	PRIMAVERA®	
Others	LogicalApps, TempoSoft SIGMA DYNAMICS REVENUE TECHNOLOGIES GLOBAL KNOWLEDGE SOFTWARE hajey	



# Spotlight: Oracle Application Integration Architecture

## Build Application Integrations using the same tools, methodology, and best practices as Oracle uses internally

Oracle Application Integration Architecture (AIA) offers customers a standard way to integrate all of our applications as well as customer and third-party applications using standards-based middleware. AIA provides the methodology and pre-built sustainable integrations between applications to enable business processes that bridge traditional operational silos, increasing cost effectiveness and decreasing cycle times. By providing customers with pre-built integrations and ongoing support and enhancements on these integrations, Oracle has reduced the time, complexity, and cost of integration. AIA is also a blueprint of the future and a foundation for the Fusion Applications while enabling customers to make a gradual module-by-module evolution to Fusion Applications.



The Oracle Application Integration Architecture is composed of:

- Best Practice Processes - pre-built best practice process, object and service definitions.
- Process Integration Packs - pre-built cross application flows that drive down cost to deploy.
- **Foundation Packs** - standards based objects, services and messages that drive interoperability and flexibility.
- Oracle Fusion Middleware - industry leading middleware platform.

Oracle AIA deliverables are the Process Integration Packs and the **Foundation Packs**. The Process Integration Packs cover specific product integrations (e.g. Siebel CRM Integration Pack to Oracle Order Management). Foundation Packs are more general and can be used to integrate with any applications. A general Foundation Pack is available, as are industry-specific foundation packs for Utilities and Insurance.

The Oracle Application Integration Architecture Foundation Pack provides:

- **Pre-built services library** - speeds time to value
- **Best practice methodology** - reduces risk and improves productivity
- **Proven reference architecture** - facilitates move from EAI/P2P integrations
- **SOA governance tools** - ensures control and visibility throughout your business process lifecycle

# ORACLE FUSION MIDDLEWARE



- **More than 90,000 organizations** around the world rely on Oracle Fusion Middleware to improve decision-making, secure corporate information, ensure compliance, boost collaboration, streamline business operations, and adapt to ongoing change.
- **Take a Test Drive of Oracle BPEL** Process Manager and find out why BPEL is the true cornerstone of Service Oriented Architectures (SOA).
- **Fusion Middleware Hot-Pluggable** capabilities enable customers to “drop and deploy” Oracle middleware into their existing heterogeneous IT environments.
- **Interested in Security and Compliance?** Be sure to check out Oracle Identity and Access Management Suite and the Oracle Enterprise Single Sign-On Suite.
- **Oracle Fusion Middleware and Microsoft** work extremely well together. Oracle Fusion Middleware will help you maximize and extend your Microsoft Office, Server, Tools, SharePoint, and Security investments.
- **Be sure to check out the Fusion** Middleware Best Practices Centers for Siebel, PeopleSoft, JD Edwards, and E-Business Suite at the Oracle Technology Network website.
- **Confused about Fusion?** **Fusion Applications** are Oracle’s next generation Enterprise Applications. While Fusion Applications are built on **Fusion Middleware**, Fusion Middleware is also certified today with all of Oracle’s Application Unlimited offerings including Siebel, PeopleSoft, JD Edwards, and E-Business Suite.

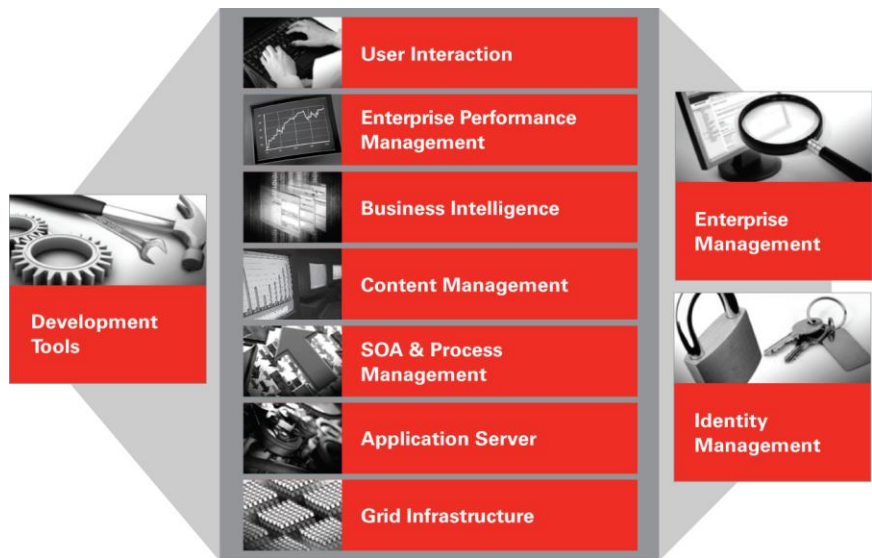
## Oracle Fusion Middleware

### Oracle is #1 in Middleware

Only Oracle delivers the #1 portfolio of open, world-class middleware products. Four core design principles help drive Oracle Fusion Middleware's leadership position in the market:

- **Complete**—Work with a single, strategic partner for all middleware requirements
- **Integrated**—Certified integrations with Oracle Fusion Middleware, Oracle Database, and Oracle Applications provide confidence and reduce costs
- **Hot-pluggable**—Enhance your existing infrastructure and applications with interoperability that goes beyond industry standards
- **Best-of-Breed**—Choose from best-of-breed offerings across every product line

Oracle Fusion Middleware isn't about starting over. It's about getting more out of what you already have and moving your organization forward. Oracle Fusion Middleware is modular and integrated, so you can use as much or as little as you need.



### A World-Class Combination

The addition of Sun and BEA products to Oracle Fusion Middleware advances Oracle's middleware strategy and further strengthens key areas of the Oracle Fusion Middleware family. Existing users can find out more at <http://www.oracle.com/bea> and <http://www.oracle.com/sun>

# OFM: Application Server and Transaction Processing

Oracle Fusion Middleware offers the Fastest, Most Scalable, & Most Reliable Transaction Processing Platform for a wide variety of styles of applications & programming models across different computing architectures (traditional SMP, computing grids, and virtualized grids).

## Key Application Server and Transaction Processing Products:

### Oracle WebLogic Suite

Oracle WebLogic Suite brings together unparalleled performance, scalability, and manageability in a single, unified application server offering. Simultaneously meeting the compute demand of thousands while maintaining quality-of-service and manageability is at the heart of Oracle WebLogic Suite. Oracle WebLogic Suite extends the functionality of WebLogic Server Enterprise Edition with distributed in-memory cache capabilities, policy driven resource management and deterministic garbage collection capabilities in the Java Virtual Machine. The Suite includes:

Oracle WebLogic Server Enterprise Edition	Oracle Application Server Enterprise Edition
Oracle Coherence Enterprise Edition	Oracle WebLogic Real Time
Oracle WebLogic Operations Control	Oracle Diagnostic Pack for Middleware
Oracle Coherence Management Pack	Oracle Virtual Assembly Builder

Available as a stand-alone license offering.

### Oracle Coherence Suite

An increasing array of applications in a growing list of industries are hungry for transactional power to cope with skyrocketing business growth. These businesses want to minimize the cost of running business-critical applications, deliver new products and services at light speed for competitive advantage, and cope with ever-increasing customer QoS demands. Oracle Coherence Suite meets these demands with the industry's #1 extreme scale-out grid platform. It is based on a set of industry-leading technologies for unlimited and linear scalability, as well as predictable and extreme performance. The Suite includes:

Oracle Coherence Grid Edition	Oracle JRockit Real Time
Oracle WebLogic Operations Control	Oracle Diagnostics Pack for Middleware
Oracle Coherence Management Pack	

Available as a stand-alone license offering.

### Oracle Web Tier

Oracle Web Tier includes components that interact with end users at the outer most tier of application grid infrastructure typically through HTTP requests and responses. Oracle Web Tier hosts web pages (static and dynamic), provides security and high performance along with built-in clustering, load balancing and failover features. Oracle Web Tier includes:

Oracle HTTP Server	Oracle Web Cache
Oracle iPlanet Web Server	Oracle iPlanet Web Proxy Server

Available as a part of WebLogic Server Standard Edition, WebLogic Server Enterprise Edition, WebLogic Suite, or as a stand-alone license offering.

### Oracle Tuxedo

Tuxedo provides infrastructure for rehosting mainframe applications and for building C/C++/COBOL based, high performance, transactional applications in heterogeneous environment that extend from the web to the enterprise. Tuxedo allows users to develop, manage, and deploy distributed applications independently of the underlying hardware, operating system, network, and database environment. *Available as a standalone license offering. Tuxedo Jolt, SALT, TSAM, Application Runtime for CICS, Application Rehosting Workbench, Mainframe Adapters (SNA, TCP, OSI), JCA Adapter, and MessageQ Adapters are licensed separately.*

### Oracle GlassFish Server

Oracle GlassFish Server is based on GlassFish Server Open Source Edition, the reference implementation of Java EE delivered by the GlassFish Community. Oracle GlassFish Server is a robust open source platform that offers exhaustive and accessible documentation, intuitive administration and configuration features, and feature-rich integration with NetBeans and Eclipse. *Available as a standalone license offering. Oracle recommends WebLogic Server for production deployments.*

### Oracle Coherence Data Grid

Oracle Coherence, formerly Tangosol, is an in memory data grid solution that enables customers to predictably scale mission-critical applications by providing fast access to frequently used data. *Offered as Oracle Coherence Standard Edition, Oracle Coherence Enterprise Edition, and Oracle Coherence Grid Edition. Oracle Coherence Enterprise Edition is included with the Oracle WebLogic Suite. Oracle Coherence Grid Edition is included with the Oracle Coherence Suite.*

## **Oracle JRockit JVM**

The Oracle JRockit family of products is a comprehensive portfolio of Java runtime solutions that includes the industry's fastest solution for standard Java. The Oracle JRockit JVM is the world's fastest JVM as shown by numerous industry benchmarks. *Part of WebLogic Server Standard Edition, WebLogic Server Enterprise Edition, WebLogic Suite, and Coherence Suite.*

## **Oracle JRockit Mission Control**

Oracle JRockit Mission Control is a suite of nonintrusive monitoring and diagnostic tools designed to deliver a rich set of operational information with minimal overhead. Oracle JRockit Mission Control is ideally suited for use in production systems. Its functionality is available on demand, and it entails near-zero overhead (on the order of 0.5 percent) that is only in effect while the tools are running. It significantly improves developer productivity and drives down latency for end-to-end applications, hence reducing operational costs while accelerating time to market. *Part of WebLogic Server Enterprise Edition, WebLogic Suite, Coherence Suite, and Oracle Enterprise Manager Diagnostics Pack for Fusion Middleware.*

## **Oracle JRockit Real Time**

The JRockit solution for latency sensitive applications, JRockit Real Time, utilizes deterministic garbage collection to provide JVM response times in milli- or micro-seconds, suitable for the needs of the financial front office, military command and control, and telecom networks. Customers have experienced significant performance increases—some exceeding 70 percent—and reductions in hardware costs of as much as 50 percent using JRockit products. *Part of Oracle Coherence Suite.*

## **Oracle JRockit Virtual Edition**

Oracle JRockit Virtual Editions runs natively on a virtualized server with no operating system to provide better performance, simpler deployment, and higher server density. *Part of Oracle WebLogic Suite Virtualization Option.*

## **Oracle Virtual Assembly Builder**

Oracle Virtual Assembly Builder makes it possible for administrators to quickly configure and provision entire multi-tier application topologies onto virtualized and cloud environments. This can be accomplished in one of two ways: (a) capturing the configuration of an existing reference application environment and packaging all its components into a collection of customized software appliances, or (b) starting with pre-created, general purpose software appliances representing the various components in an application topology. *Part of Oracle WebLogic Server Enterprise Edition and Oracle WebLogic Suite.*

## **Oracle WebLogic Operations Control**

Oracle WebLogic Operations Control automates the adaptive management of applications to enable the highest possible quality of service with the most efficient use of data center resources. With Oracle WebLogic Operations Control, operations teams are able to define policies based on application-level SLAs that govern the allocation of hardware and software resources to ensure that quality of service (QoS) goals are met. When pre-defined conditions occur, the Oracle WebLogic Operations Control controller will dynamically allocate or deallocate resources to applications or services by invoking the deployment capabilities of the underlying infrastructure. Applications can be dynamically extended or re-configured to meet runtime requirements, without constant monitoring by system operators. *Part of WebLogic Suite and Coherence Suite.*

## **Oracle WebLogic Real Time**

Oracle WebLogic Real Time provides predictable and mission-critical low-latency performance via the proven combination of the WebLogic Server, JRockit Real Time, and JRockit Mission Control tools. *Part of the Oracle WebLogic Suite. Includes JRockit Real Time (limited to running WebLogic Server and J2EE applications).*

## **Oracle WebLogic Server Standard Edition**

WebLogic Standard Edition provides a standards based Java EE infrastructure for building, deploying and managing high performance Java, Web Service, JMS message and JCA adapter based applications. It includes a Java EE compliant runtime server, development frameworks (Oracle Application Development Framework, Oracle TopLink and Kodo Enterprise) and an administration console. *Clustering of WebLogic Server is not provided in WebLogic Server Standard Edition.*

## **Oracle WebLogic Server Enterprise Edition**

Oracle WebLogic Server Enterprise Edition includes all the features and benefits of Oracle Weblogic Server Standard Edition plus proven clustering technology, cross domain management and diagnostic tooling. Clustering provides seamless migration and failover from one server to another, ensuring continual operation for your business-critical applications and services. Deep diagnostics and memory leak detection – provided by the included Oracle Enterprise Manager Diagnostics Pack for Oracle Middleware - can help prevent application disruption altogether by getting to the root cause of issues including performance bottlenecks, poor memory utilization and other configuration anomalies. *Available as part of the Oracle WebLogic Suite or as a standalone license offering.*

### Oracle WebLogic Suite Virtualization Option

Oracle WebLogic Suite Virtualization Option provides a tuned and optimized pairing of Oracle WebLogic Server with Oracle JRockit Virtual Edition designed to maximize the benefits of running on virtualized systems. This pre-configured software appliance runs enterprise Java applications without the need and overhead of a guest operating system (O/S). *Available as an option to Oracle WebLogic Suite.*

### Oracle Application Server – Standard Edition

The Standard Edition provides a platform to cost-effectively deploy high-performance, transactional Web sites for your customers, employees, and suppliers. The Standard Edition includes:

Oracle HTTP Server	Oracle WebLogic Server Basic
Oracle Application Development Framework	Oracle TopLink
Oracle Web Cache	Oracle Enterprise Messaging Service
Oracle Map Viewer	Oracle Portal

### Oracle Application Server – Enterprise Edition

The Oracle Application Server Enterprise Edition offers a comprehensive platform with support for J2EE, enterprise portals, identity management, business intelligence, enterprise integration, and wireless. The Enterprise Edition includes:

All Oracle Application Server Standard Edition components, plus...	
Oracle Forms Services	Oracle Reports Services
Oracle Discoverer	Oracle Internet Directory
Oracle Single Sign-On (OSSO)	

### Oracle MapViewer

MapViewer is a J2EE service for rendering maps using spatial data managed by the Oracle Database's Locator or Spatial features. *Part of Oracle WebLogic Server and Oracle Application Server offerings.*

### Oracle Web Cache

Oracle Application Server provides a Web caching solution with the unique capability of caching both static and dynamically generated Web content. Oracle Web Cache features include page fragment caching, Edge Side Includes (ESI) and Edge Side Includes for Java (JESI) support, compression, load balancing, cache clustering, and failover. *Part of Oracle Application Server Standard and Enterprise Editions and Oracle Web Tier.*

# OFM: Service-Oriented Architecture and Master Data Management

Oracle Fusion Middleware offers the most Complete & Integrated Service-Oriented Architecture Platform to enable a wide variety of enterprise SOA patterns, including Data Integration, Application Modernization, Enterprise Integration, & Composite Applications. This Platform provides greater business flexibility by integrating applications & systems using modern, open standards.

## Key Service-Oriented Architecture and Master Data Management Products:

### Oracle SOA Suite and Oracle SOA Suite for Non-Oracle Middleware

Oracle's SOA Suite is an integrated suite of standards-based components to enable the development, integration, deployment, and management of Service-Oriented Architecture (SOA). The Suite includes:

Oracle BPEL Process Manager	Oracle B2B Engine
Oracle Business Activity Monitoring	Oracle Business Rules Engine
Oracle Service Bus	Oracle Web Services Policy Manager
Oracle Complex Event Processing	Oracle Integration Adapters (Technology)

*Oracle SOA Suite is an option to the Oracle WebLogic Suite. Oracle SOA Suite for Non-Oracle Middleware is a stand-alone license offering.*

### Oracle Data Integration Suite

Oracle Data Integration Suite includes a comprehensive set of data management components for building, deploying, and managing enterprise data integration solutions. It includes the necessary components for data movement, data quality, data profiling, and metadata management for solving any data integration and data management challenge. Together with service-oriented architecture (SOA), Oracle Data Integration Suite provides the agility needed for service oriented data management. With Oracle Data Integration Suite's open and hot-pluggable components, organizations can easily extend and evolve their architectures instead of replacing existing investments. The Suite includes:

Oracle Data Integrator Enterprise Edition	Oracle Service Bus (limited use)
Oracle Data Quality and Profiling	Oracle Coherence (limited use)
Hyperion Data Relationship Management	Oracle BPEL Process Manager (limited use)

*Oracle Data Integration Suite is available as a stand-alone license offering.*

### Oracle GoldenGate

Oracle GoldenGate is used for high availability and data integration by capturing and propagating database transactions between heterogeneous open systems databases in real time. The Oracle GoldenGate offering also includes the use of the Oracle Database Active Data Guard option. *Oracle GoldenGate is available as a stand-alone license offering. Oracle GoldenGate for Mainframe, Oracle GoldenGate for Non-Oracle Database, Oracle GoldenGate Veridata, Oracle GoldenGate Application Adapters, and Management Pack for GoldenGate are available separately.*

### Oracle Event-Driven Architecture Suite

Oracle Event-Driven Architecture Suite (EDA Suite) provides a flexible, declarative environment for rapidly building and adapting event-driven applications. Oracle EDA Suite is a key part of today's intelligent enterprise, which expands beyond the service-interaction model of SOA to manage event-based interactions and complex event analysis in real time. With personalized dashboards and build-your-own reporting and alerting capabilities, Oracle EDA Suite empowers both IT and business users to stay on top of their businesses. The Suite includes:

Oracle Complex Event Processing	Oracle Enterprise Service Bus(Mediator)
Oracle Business Activity Monitoring	Oracle Business Rules Engine

*Oracle Event-Driven Architecture Suite is available as a standalone offering.*

### Oracle Application Integration Architecture Foundation Pack

The Foundation Pack allows customers to take advantage of the same tools, services, methodology, and best practices that Oracle uses internally to integrate our own applications. The Foundation Pack leverages the robust Oracle SOA Suite infrastructure and provides pre-built services and capabilities on top.

*See the "Oracle Application Integration Architecture Spotlight" section elsewhere in this document.*

### Oracle B2B

Oracle B2B is an e-business integration product for the business-to-business (B2B) exchange of services, information, and products. It supports standard and custom B2B protocols and documents, comprehensive trading partner management, easy integration with existing applications, and a full set of reports and security features. *Part of Oracle SOA Suite. B2B Adapters for RosettaNet, EDI, Healthcare, and ebXML licensed separately.*

### Oracle BPEL Process Manager

BPEL (Business Process Execution Language) is the standard for orchestrating discrete services into end-to-end business processes and a key component for implementing a SOA (Service Oriented Architecture) strategy. Oracle BPEL Process Manager comprises an easy-to-use BPEL

modeler, a scalable BPEL engine, an extensible web services binding framework, a monitoring console and a set of built-in integration services (transformation, human workflow, java embedding). *Oracle BPEL Process Manager is available as part of the Oracle SOA Suite, the Oracle BPM Suite, as an option to the Oracle WebLogic Suite, or as a stand-alone license offering for non-Oracle middleware.*

### **Oracle Business Activity Monitoring**

Oracle Business Activity Monitoring (Oracle BAM) is a complete solution for building interactive, real-time dashboards and proactive alerts for monitoring business services and processes. Oracle BAM gives business executives and operations managers the information they need to make better business decisions and take prompt corrective action if the business environment changes. *Oracle Business Activity Monitoring is available as part of the Oracle SOA Suite, Oracle EDA Suite, and Oracle BPM Suite.*

### **Oracle Business Rules Engine**

Oracle Business Rules Engine is a fast, efficient, easy to integrate engine for automating business rules and policies and making them more visible and agile. *Part of Oracle SOA Suite, Oracle EDA Suite, and Oracle BPM Suite.*

### **Oracle Complex Event Processing**

Today's IT environments generate continuous streams of data for everything from monitoring financial markets and network performance, to business process execution and tracking RFID tagged assets. Oracle Complex Event Processing (portions formerly WebLogic Event Server) provides a rich, declarative environment for developing event processing applications to improve the effectiveness of your business operations. Oracle CEP can process multiple event streams to detect patterns and trends at real time. *Available as part of Oracle SOA Suite and Oracle EDA Suite.*

### **Oracle Data Integrator Enterprise Edition**

Oracle Data Integrator provides high-performance bulk and real-time data movement for heterogeneous sources and targets in data warehousing and SOA environments. The Oracle Data Integrator Enterprise Edition also includes the capabilities formerly known as Oracle Warehouse Builder Enterprise ETL Option. *Oracle Data Integrator is available as part of the Oracle Data Integration Suite or as a standalone offering. Application and Changed Data Capture Adapters for Data Integrator are licensed separately.*

### **Oracle Data Profiling and Oracle Data Quality**

Oracle Data Profiling and Data Quality for Data Integrator extend Oracle Data Integrator to provide advanced governance capabilities. Both products are fully integrated with Oracle Data Integrator to place quality at the center of all your information initiatives and projects. Oracle Data Profiling is a data investigation and quality monitoring tool. It allows business users to assess the quality of their data through metrics, to discover or infer rules based on this data, and to monitor historical metrics about data quality. Oracle Data Quality for Data Integrator is the leading data quality platform that covers even the most complex data quality needs. Its powerful rule-based engine and its robust and scalable architecture place data cleansing at the heart of an enterprise data integration strategy. *Available as part of the Oracle Data Integration Suite or as an option to Oracle Data Integrator. Some Data Quality Rulesets may be licensed separately.*

### **Oracle Data Service Integrator**

Oracle Data Service Integrator (formerly BEA AquaLogic Data Services Platform) provides companies the ability to quickly develop and manage federated data services for accessing a single view of data across multiple heterogeneous sources. *Oracle Data Service Integrator is available as a standalone offering.*

### **Oracle GoldenGate**

Captures and propagates database transactions between heterogeneous open systems databases in real time. Used for high availability and real time data integration. Includes the Oracle Database Active Data Guard option. *Oracle GoldenGate is available as a standalone offering.*

### **Oracle GoldenGate Application Adapters**

Enables real-time data synchronization for specific applications. GoldenGate Application Adapters are available for: Siebel, Base24, Logger for Enscribe, and JMS and Flat File. *Oracle GoldenGate Application Adapters are licensed separately.*

### **Oracle GoldenGate for Mainframe**

Captures and propagates changes to and from HP Non-Stop databases and IBM Mainframe databases in real time. *Oracle GoldenGate for Mainframe is available as a standalone offering.*

### **Oracle GoldenGate Veridata**

Verifies and reports discrepancies between replicated databases. *Oracle GoldenGate Veridata is available as a standalone offering.*

### **Oracle Hyperion Data Relationship Management**

Oracle's Hyperion Data Relationship Management (previously known as Hyperion Master Data Management) provides enterprises a solution to build consistency within master data assets despite endless changes within the underlying transactional and analytical systems. Specifically, Hyperion

DRM provides the industry's first data model-agnostic master data management solution built to enable financial and analytical master data management in dynamic, fast-changing business environments. *Available as part of the Oracle Data Integration Suite.*

### **Oracle Integration Adapters**

The baseline integration capabilities of Oracle Application Server provide Technology Adapters for files, database, Oracle Advanced Queuing, web services, JMS, HTTP(s), SMTP, and FTP. The capabilities can be extended with additional adapters available for Oracle Applications, PeopleSoft, SAP, Seibel, JDEdwards, EDI, RosettaNet, CICS, IMS/DB, IMS/TM, VSAM, Mainframe DB/2, Tuxedo, SWIFT, FIX, Payments, Derivatives, and Changed Data Capture. *The Technology Adapters are included with Oracle SOA Suite. Other adapters are licensed separately.*

### **Oracle Service Bus**

Oracle Service Bus is a lightweight enterprise-class service bus designed to connect, mediate and manage interactions between heterogeneous services, legacy applications and multiple ESB instances across an enterprise-wide Service Network. *Available as part of Oracle SOA Suite or as an option to Oracle WebLogic Suite.*

### **Oracle WebLogic Integration**

WebLogic Integration is a flexible, Java-based product that helps integrate systems, data, and people within and across companies. It enables standards-based connectivity for all major packaged applications, support for best-practice patterns, and a unified development environment. *Available as a stand-alone license offering. Requires a license of Oracle WebLogic Enterprise Edition.*

## **OFM: Business Process Management**

Oracle Fusion Middleware offers the most complete & integrated Business Process Management Platform, supporting System-centric, Human-centric, Document-centric, and Decision-centric Business Processes in a single runtime. The Platform enables business owners & developers to collaborate, to define processes across systems & lines of business, and to improve Business Process efficiency by Monitoring, Analyzing, Simulating, & Optimizing Processes.

### **Key Business Process Management Products:**

#### **Oracle Business Process Management Suite and Oracle Business Process Management Suite for Non-Oracle Middleware**

Whether the process is a line-of-business mandate or an IT exercise in systems integration, Oracle BPM Suite offers the flexibility that the business demands, hand-in-hand with the power IT requires. The result is an agile and flexible platform based on your existing applications that allows you to react quickly to new business requirements and improves productivity. The Suite includes:

Oracle BPM Studio	Oracle BPEL Process Manager / BPM Engine
Oracle Business Rules	Oracle Business Activity Monitoring
Oracle Web Center Suite (limited use)	

*Oracle BPM Suite is an option to the Oracle WebLogic Suite. Oracle BPM Suite for Non-Oracle Middleware is a stand-alone license offering.*

#### **Oracle Business Process Analysis Suite**

Oracle BPA Suite is a business process modeling and simulation toolset to enable business analysts to analyze, model, and publish business processes. Oracle BPA Suite is being tightly integrated with Oracle SOA Suite to provide a closed loop Business Process Management development environment. The BPA Suite includes:

Oracle Business Process Architect	Oracle Business Process Simulator
Oracle Business Process Publisher	Oracle Business Process Repository Server

*Oracle Business Process Analysis Suite is licensed per named developer.*

### **Oracle BPM Studio**

Oracle BPM Studio (formerly AquaLogic BPM Studio) is a complete set of tools for creating, executing, and optimizing business processes. The tool enables unparalleled collaboration between business and IT to automate and optimize business processes. The result is improved efficiency and agility, and lower costs. Oracle BPM Studio leverages your existing IT investments and is specially tuned for line-of-business users. *Available as part of the Oracle BPM Suite.*

### **Oracle Business Process Architect**

A standards-based tool for process modeling that supports standards-based notations and templates including Business Process Modeling Notation. *Part of Oracle Business Process Analysis Suite.*

### **Oracle Business Process Simulator**

A tool for simulating the process models based on a set of discrete events to do "what if" analysis. *Part of Oracle Business Process Analysis Suite.*

## **OFM: Service Governance**

Oracle Fusion Middleware offers an integrated & complete SOA Governance Lifecycle Platform including Tools, Registry, Repository, Policy Manager, and Console. The Platform provides visibility into an organization's service portfolio to discover, categorize, manage change, audit usage, and monitor to provide better control and compliance for the development through operations lifecycle.

### **Key Service Governance Products:**

#### **Oracle Enterprise Repository**

Oracle Enterprise Repository provides enterprise-wide visibility into an organization's software assets to reduce IT costs, manage risk and increase business agility. Coupled with the Oracle Service Registry, Web Services Policy Manager and SOA Management Pack (sold separately), Enterprise Repository provides a comprehensive, end-to-end SOA lifecycle governance solution.

#### **Oracle Service Registry**

Oracle Service Registry captures detailed SOA service description and usage information into a centrally managed, reliable, searchable repository. Oracle Service Registry supports the latest UDDI V3 specification for broad interoperability and enterprise class deployments and is the most feature-complete SOA registry available today, becoming the "System-of-Record" for all SOA information.

#### **Oracle SOA Management Pack Enterprise Edition**

This pack is engineered to deliver value right out of the box with a fully centralized management console integrated with Oracle Enterprise Manager. The pack provides increased visibility, production assurance, and significant reduction in cost and complexity while managing service-oriented architecture (SOA) environments, thereby increasing SOA's return on investment. It provides runtime governance through composite application modeling and monitoring and comprehensive service and infrastructure management.

#### **Oracle WebLogic Server Management Pack Enterprise Edition**

This offering provides a complete, integrated, and easy-to-use solution for managing Oracle WebLogic Server and Oracle Application Server. It provides powerful application performance management, configuration tracking, compliance management, and operations automation capabilities for multiple Oracle WebLogic Domains.

#### **Oracle Web Services Policy Manager**

Oracle Web Services Policy Manager provides tools for building security and operations policies that can be layered over new or existing applications and Web Services along with dashboards for monitoring these policies as they execute, to ensure service levels and avoid potential problems. *Oracle Web Services Policy Manager is available as part of the Oracle SOA Suite.*

# OFM: User Interaction and Portals

Oracle Fusion Middleware offers the most complete & integrated Composite User Interface for the process of developing Rich Internet Applications, Enterprise Portals, & Social Computing to transform how people share information using Internet & Enterprise2.0 Technology.

## Key User Interaction and Portal Products:

### Oracle WebCenter Services

Oracle WebCenter Services provides standards-based components that enrich existing portals and Web sites with the industry's most complete and open set of Enterprise 2.0 capabilities. These Enterprise 2.0 services include community based interactions, online awareness and communications, content management, web analytics, and social networking. Oracle WebCenter Services enable organizations to use their current portals and web sites to empower their end users with Enterprises 2.0 services that work with their existing information systems. Oracle WebCenter Services includes:

Oracle WebCenter Framework	Wikis, Blogs, Discussions, Events, People Connections, etc
Oracle BPEL Worklist Service	Oracle UCM Content Adapter
Oracle JSF Portlet Bridge	Oracle Ensemble
Oracle WebCenter Analytics	

Available as a stand-alone license offering or as part of the Oracle WebCenter Suite.

### Oracle WebCenter Suite

Oracle WebCenter Suite is the industry's only complete, open, and manageable user interaction and portal platform that integrates Enterprise 2.0 capabilities into ad hoc and structured business processes, as well as custom and packaged enterprise applications. The suite includes components of Oracle WebCenter and Oracle WebCenter Interaction (formerly AquaLogic User Interaction) and allows organizations to securely deliver Enterprise 2.0 services like wikis, discussion forums and RSS feeds through both out-of-the-box and customized portals. The Suite includes:

Oracle WebCenter Services	Oracle WebLogic Portal
Oracle WebCenter Interaction	Oracle WebCenter Spaces
Oracle WebCenter Composer	Oracle Secure Enterprise Search (limited use)
Oracle Universal Content Management (limited use)	

Available as a standalone license offering.

### Oracle Ensemble

Oracle Ensemble (formerly AquaLogic Ensemble) provides a lightweight REST-based Portal assembly mechanism, ideal for scenarios such as DMZ-based deployment. *Part of Oracle WebCenter Services and Oracle WebCenter Suite.*

### Oracle Portal

Oracle Portal is a browser-based software environment for building and deploying enterprise portals. The easy-to-use portal interface offers an organized, personalized view of the business information, web content, and applications needed by each user. *Oracle Portal is available as part of the Oracle Application Server Standard and Enterprise Editions.*

### Oracle WebCenter Analytics

Oracle WebCenter Analytics (formerly AquaLogic Analytics) helps users discover content and expertise by extracting data about how information is actually used. *Part of Oracle WebCenter Services and Oracle WebCenter Suite.*

### Oracle WebCenter Framework

The WebCenter Framework provides the first Java Server Faces(JSF)-based framework that enables embedding of rich, AJAX-based components, portlets, and content to create context-rich, customizable applications. *Part of Oracle WebCenter Services and Oracle WebCenter Suite.*

### Oracle WebCenter Interaction

Oracle WebCenter Interaction, formerly called AquaLogic User Interaction, is used to create enterprise portals, collaborative communities, and composite and social applications. It provides a cross-platform, multi-language solution that supports both Java and .NET framework. *Part of Oracle WebCenter Suite.*

### Oracle WebLogic Portal

WebLogic Portal features Web 2.0 technologies that support rich user experiences, dynamic interactivity, and portal mashups. Other features include content management, single sign-on security, and RSS. Includes WebLogic Personalization Server. *Available as part of Oracle WebCenter Suite or as a stand-alone license offering.*

## Oracle WebCenter Spaces

Provides an out-of-the-box social networking solution which leverages WebCenter Framework and WebCenter Services and enables end-user driven, next-generation community creation and management for increased collaboration and productivity. *Part of Oracle WebCenter Suite.*

# OFM: Content Management

Oracle Fusion Middleware offers the industry's most integrated and complete content management platform. Oracle Content Management provides a superior user experience that spans the entire spectrum of unstructured content, reduces development and administration costs, and increases individual and team productivity.

## Key Content Management Products:

### Oracle Enterprise Content Management Suite

Oracle Enterprise Content Management Suite provides a complete solution for customers seeking to implement an enterprise-wide content management system. The Suite includes:

Oracle Imaging and Process Management	Oracle Universal Content Management
Oracle Universal Records Management	Oracle Business Process Management Suite (limited use)
Oracle Information Rights Management (limited use)	

*Available as a stand-alone license offering. Each component is also available as an individual license offering.*

## Oracle Enterprise Content Management Components:

### Oracle Content Conversion Server

Oracle Content Conversion Server provides powerful document conversion facilities to convert proprietary formats into universal web-readable formats. *Available as a standalone license offering.*

### Oracle Document Capture and Oracle Distributed Document Capture

Oracle Document Capture supports high volume production scanning from a central location while Oracle Distributed Document Capture provides a user-friendly web interface that allows distributed enterprises to easily capture images from remote locations. Both solutions offer industry-standard images from document scanners, automated indexing options, and flexible implementation methods, as well as an efficient means to archive your document images and data. *Available as a standalone license offering.*

### Oracle Enterprise Content Management Application Adapters

Application Adapters are productized integrations between Oracle ECM and various applications such as PeopleSoft, Siebel, and E-Business Suite. *Available as a separate license offering.*

### Oracle Forms Recognition

Forms Recognition provides the ability to automatically extract data from scanned images of semi-structured forms like invoices and orders. *Available as a separate license offering.*

### Oracle Imaging and Process Management

Oracle Imaging and Process Management provides image scanning and business process management capabilities for enterprise applications such as accounts payable and time & expense activities. *Available as part of the Enterprise Content Management Suite. Also available as a standalone license offering.*

### Oracle Universal Content Management

Universal Content Management is a broad set of content management tools including Document, Web Content, and Digital Asset Management, in a single unified application where content is typically presented to both internal and external audiences. *Available as part of the Enterprise Content Management Suite. Also available as a standalone license offering.*

### Oracle Universal Records Management

Oracle Universal Records Management provides federated records management, enabling records and retention management across multiple content management and legacy content stores throughout the enterprise via a centralized policy engine. *Available as part of the Enterprise Content Management Suite. Also available as a standalone license offering.*

### Oracle Universal Records Management Adapters

Oracle Universal Records Management Adapters provide connectors for external repositories, such as Microsoft SharePoint, EMC Documentum, FileNet, and File Systems, that can be managed centrally from Oracle Universal Records Management. *Licensed separately.*

# OFM: Identity Management

Oracle Fusion Middleware offers the most complete & integrated Identity & Access Management Platform to manage users & roles across information systems, enterprise applications, & physical assets; to centrally manage access & entitlements; and to lower the cost of security administration by reducing vulnerabilities & enforcing compliance with controls.

## Key Identity Management Products:

### Oracle Access Management Suite Plus

Oracle Access Management Suite is a new package that includes Oracle's leading solutions for web access management, federation, strong authentication and fraud protection, and fine-grained authorization. This package is a comprehensive solution for any secure web portal or commerce site. The Suite includes:

Oracle Access Manager	Oracle Identity Federation with Fedlet
Oracle Adaptive Access Manager	Oracle Entitlements Server
Oracle Information Rights Management	

Available as a stand-alone license offering. Oracle Entitlements Server Security Module plug-ins are licensed separately.

### Oracle Identity and Access Management Suite Plus

Oracle Identity and Access Management Suite is a complete and integrated suite of Enterprise Identity Management, Identity Provisioning, and Identity Administration products. It includes facilities to: (i) Create users and manage them in a Directory Service; (ii) to provision users in a variety of Information Systems and Packaged Applications; (iii) to manage the user's membership in roles and groups and to administer the user's access control privileges; (iv) to provide the user with web-based Single Sign-On; (v) to federate the user's identity with business partners using standards-based Federation technologies; and (vi) to monitor and audit compliance with Enterprise Security Policies and regulatory requirements. The Suite includes:

Oracle Access Manager	Oracle Identity Federation with Fedlet
Oracle Identity Manager	Oracle Directory Services Plus

Available as a stand-alone license offering. Oracle Identity Manager Provisioning Connectors are licensed separately.

### Oracle Enterprise Single Sign-On Suite Plus

Oracle Enterprise Single Sign-On (eSSO) delivers enterprise authentication and single sign-on for mainframe, client/server and Web applications. The Suite helps improve and simplify security by enabling customers to access diverse enterprise applications using a single identity and password. The Suite includes:

Oracle eSSO Logon Manager	Oracle eSSO Password Reset
Oracle eSSO Authentication Manager	Oracle eSSO Provisioning Gateway
Oracle eSSO Kiosk Manager	Oracle eSSO Anywhere

Available as a stand-alone license offering.

### Oracle Directory Services Plus

Oracle Directory Services provides a set of products to create a flexible identity infrastructure through LDAP directory storage, virtualization, and synchronization technologies. This includes:

Oracle Internet Directory	Oracle Virtual Directory
Oracle Directory Server Enterprise Edition (formerly Sun Java Directory Server Enterprise Edition)	

Oracle Directory Services is available as a stand-alone license offering or as part of the Oracle Identity and Access Management Suite Plus.

### Oracle Access Manager

Oracle Access Manager (formerly Oracle COREid) is the market-leading solution for centralized enterprise identity management. Oracle Access Manager powers many of the largest business-critical Web portals and extranets in the world. *Oracle Access Manager is available as part of the Oracle Identity and Access Management Suite Plus, Oracle Access Management Suite Plus, or as a stand-alone license offering.*

### Oracle Adaptive Access Manager

Oracle Adaptive Access Manager provides superior protection from sophisticated internet threats for businesses and their customers through strong yet easy-to-deploy multifactor authentication and proactive, real-time fraud preventions. *Available as a stand-alone license offering or as part of the Oracle Access Management Suite Plus.*

### Oracle Entitlements Server

Entitlements Server (formerly AquaLogic Enterprise Security) is a fine-grained authorization and entitlement management solution that can be used to more precisely control the protection of application resources. It simplifies and centralizes security for enterprise applications and SOA by

providing reusable, and fully auditable authorization policies. *Available as part of the Oracle Access Management Suite Plus or as a standalone license offering. Entitlements Server Security Module plug-ins are licensed separately.*

### **Oracle Identity Analytics**

Oracle Identity Analytics (formerly Sun Role Manager) empowers you with rich identity analytics and dashboards, so you can monitor, analyze, review and govern user access in order to mitigate risk, build transparency and satisfy compliance mandates. *Available as a stand-alone license offering.*

### **Oracle Identity Federation with Fedlet**

Oracle Identity Federation is an identity federation server that enables secure cross-domain interaction with business partners and customers. Oracle OpenSSO Fedlet supports SSO-related needs in business scenarios, without the need for a full-fledged federation product/solution deployment. *Available as part of the Oracle Identity and Access Management Suite Plus, Oracle Access Management Suite Plus, or as a stand-alone license offering.*

### **Oracle Identity Manager**

Oracle Identity Manager automates the process of creating the user in a variety of Enterprise Information Systems and Packaged Applications; automates the management of identities; and administers the lifecycles of access privileges to enterprise resources. Oracle Identity Manager provides unparalleled capabilities (such as workflow, reconciliation, and a flexible adapter factory) to regain control over user access rights, enforce organizational security policies, and enable compliance to regulatory standards. *Oracle Identity Manager is available as part of the Oracle Identity and Access Management Suite Plus or as a stand-alone license offering. Identity Manager Connectors are licensed separately. Connectors are available for Database User Management, Database Applications Table, Microsoft Active Directory, Oracle Internet Directory, Novell eDirectory, Sun Java System Directory, Oracle e-Business, PeopleSoft Enterprise Applications, SAP Enterprise Applications, UNIX, RSA Authentication Manager, RSA ClearTrust, IBM Lotus Notes/Domino, SAP Enterprise Portal, Siebel Enterprise Applications, IBM RACF, CA ACF2, CA Top Secret, BMC Remedy User Management, IBM OS/400, JDEdwards EnterpriseOne, Oracle Retail, Siemens DirX LDAP, BMC Remedy.*

### **Oracle Information Rights Management**

Oracle Information Rights Management allows organizations to secure, monitor, and audit access to information both in and out of the corporate enterprise. Users can interact with sealed content regardless of whether they are connected to the network or not. *Available as part of the Access Management Suite Plus or licensed separately.*

### **Oracle Internet Directory**

A mission-critical LDAPv3 server that leverages the Oracle Database. OID's Directory Integration Platform provides a set of interfaces and services that make it possible to develop synchronization solutions with other enterprise directories, such as Active Directory. *Available as part of the Oracle Identity and Access Management Suite Plus, part of Oracle Directory Services Plus, or as part of the Oracle Application Server Enterprise Edition.*

### **Oracle Single Sign-on**

Oracle Single Sign-on provides a framework for secure single sign-on for traditional Oracle web applications. *Oracle Single Sign-On is available as part of the Oracle Identity and Access Management Suite Plus or as part of the Oracle Application Server Enterprise Edition.*

### **Oracle Virtual Directory**

Oracle Virtual Directory is a lightweight Virtual Directory Service that accesses and audits identity information (e.g. who the user is, what roles they belong to, and what privileges they have) data directly from the source(s) in real time rather than storing it in a separate repository. It provides a uniform way to access Identity Information that may be stored in multiple repositories without needing to synchronize information into a central store as required by a metadirectory. *Oracle Virtual Directory is available as part of the Oracle Identity and Access Management Suite Plus or as part of Oracle Directory Services Plus.*

# OFM: Business Intelligence

The Oracle Fusion Middleware platform offers comprehensive Business Intelligence functionality built on an integrated, unified infrastructure to enable pervasive insight to everyone, everywhere.

## Key Business Intelligence Products:

### Oracle Business Intelligence Suite - Enterprise Edition Plus

Oracle Business Intelligence Enterprise Edition Plus is a comprehensive suite of enterprise business intelligence (BI) products which address the full spectrum of BI requirements, including interactive dashboards; rich ad hoc query and analysis, proactive intelligence and alerts; enterprise reporting; real-time predictive intelligence; and portable analytics. The suite includes:

Oracle Business Intelligence Server Enterprise Edition	Oracle Business Intelligence Answers
Oracle Business Intelligence Interactive Dashboard	Oracle Business Intelligence Reporting and BI Publisher
Oracle Business Intelligence Delivers	Oracle Business Intelligence Office Plug-In
Hyperion Interactive Reporting	Hyperion SQR Production Reporting
Hyperion Financial Reporting	Hyperion Web Analysis

*Oracle Business Intelligence Suite Enterprise Edition Plus is available as a stand-alone license offering.*

### Oracle Business Intelligence Suite - Standard Edition One

Oracle Business Intelligence Standard Edition One is a complete, integrated, and attractively priced BI solution for small and medium sized businesses as well as departments in larger organizations. The suite includes:

Oracle Database Standard Edition One	Oracle Warehouse Builder
Oracle Business Intelligence Server Enterprise Edition	Oracle Business Intelligence Answers
Oracle Business Intelligence Interactive Dashboard	Oracle Business Intelligence Publisher

*Oracle Business Intelligence Suite Standard Edition One is available as a stand-alone license offering and is limited to at most 50 named users.*

### Oracle Real-Time Decisions

The Oracle Real-Time Decisions platform combines both rules and predictive analytics to power solutions for real-time enterprise decision management. It enables real-time intelligence to be instilled into any type of business process or customer interaction. A high-performance transactional server delivers real-time decisions and recommendations. This server automatically renders decisions within a business process and reveals insights, creating actionable intelligence from data flowing through the process in real time. *Available as a stand-alone license offering or in conjunction with specialized Oracle applications for call centers, e-commerce, and more.*

## Oracle Business Intelligence Suite Enterprise Edition Plus Components:

### Oracle Business Intelligence Publisher

Oracle BI Publisher allows users to utilize a set of familiar desktop tools such as Adobe Acrobat, Microsoft Word, and Microsoft Excel to create and maintain their own report formats based on development delivered xml data extracts. Users can also merge data into PDF forms such as government tax forms to easily create additional output types. *Oracle BI Publisher is available as part of Oracle Business Intelligence Suite Standard Edition One and Enterprise Edition Plus, or as a stand-alone license offering.*

### Oracle Business Intelligence Server Enterprise Edition

Oracle Business Intelligence Server is a scalable BI and analytics server that provides a centralized data access, aggregation, and calculation engine for intelligence across enterprise data sources. Designed for high scalability, reliability, and manageability, it enables organizations to establish a logical business model of various physical data sources -- including relational, multidimensional, operational, XML, and other sources - and provide users with access to these sources through a range of end user access options. *Business Intelligence Server Enterprise Edition is available as part of the Oracle Business Intelligence Suite Standard Edition One and Enterprise Edition Plus, or as a standalone license offering.*

### Oracle Business Intelligence Server Enterprise Edition - Administrator

BI Server Administrator is used to define the logical layer that represents a business model, shielding end users from the complexities of the underlying physical data sources so they do not have to know anything about joins, group-bys, having clauses, or other physical structures. *Administrator is available as a standalone license offering that works with the Business Intelligence Server Enterprise Edition.*

### Oracle Business Intelligence Server Enterprise Edition - Answers

Business Intelligence Answers provides end user ad hoc query capabilities in a pure Web architecture. Users interact with a logical view of the information—completely hidden from the complexity of data structures—to easily create charts, pivot tables, reports, all of which are fully interactive and drillable and can be saved, shared, modified, formatted, or embedded in Oracle Business Intelligence Interactive Dashboard. *Answers is available as part of the Oracle Business Intelligence Suite Standard Edition One and Enterprise Edition Plus, or as a licensable option to the Business Intelligence Server Enterprise Edition.*

### Oracle Business Intelligence Server Enterprise Edition - Delivers

Business Intelligence Delivers is a proactive intelligence solution that provides business activity monitoring and alerting that can reach users via multiple channels such as email, dashboards, and mobile devices. *Delivers is available as part of the Oracle Business Intelligence Suite Standard Edition One and Enterprise Edition Plus, or as a licensable option to the Business Intelligence Server Enterprise Edition.*

**ORACLE®**

### **Oracle Business Intelligence Server Enterprise Edition - Disconnected Analytics**

This product provides full analytical functionality for the mobile professional, enabling interactive dashboards and ad hoc analysis while disconnected from the corporate network. *Available as a standalone license offering that works with the Business Intelligence Server Enterprise Edition.*

### **Oracle Business Intelligence Server Enterprise Edition - Interactive Dashboard**

Interactive Dashboard provides knowledge workers with intuitive, interactive access to information that is actionable and dynamically personalized based on the individual's role and identity. *Interactive Dashboard is available as part of the Oracle Business Intelligence Suite Standard Edition One and Enterprise Edition Plus, or as a licensable option to the Business Intelligence Server Enterprise Edition.*

### **Oracle Business Intelligence Server Enterprise Edition - Office Plug-In**

Oracle Business Intelligence Office Plug-in enables users to quickly and easily access and analyze information in Microsoft Excel. *Available as part of the Oracle Business Intelligence Suite Enterprise Edition Plus, or as a licensable option to the Business Intelligence Server Enterprise Edition.*

### **Oracle Business Intelligence Server Enterprise Edition - Reporting and Publishing**

Oracle Business Intelligence Reporting and Publishing provides end users the ability to view and interact with highly formatted, "pixel-perfect" reports. It includes high-volume report generation, formatting, and distribution capabilities. *Reporting and Publishing is available as part of the Oracle Business Intelligence Suite Enterprise Edition Plus, or as a licensable option to the Business Intelligence Server Enterprise Edition.*

### **Oracle Data Warehouse Business Adapters**

Oracle Data Warehouse Business Adapters provide pre-built connectivity from Oracle Business Intelligence Enterprise Edition to applications such as Oracle E-Business Suite, PeopleSoft, SAP, and Siebel. *Data Warehouse Business Adapters are available as a standalone offering.*

### **Oracle Essbase Plus**

Oracle Essbase is a world-class analytic calculation engine for business modeling and analysis. *Oracle Essbase Plus is available as a standalone offering.*

### **Oracle Essbase Visual Explorer**

Essbase Visual Explorer uses a colorful, visual paradigm to help users navigate detail across many dimensions and identify trends and interdependencies. *Available as an option to Essbase Plus.*

### **Oracle Hyperion Interactive Reporting**

Hyperion Interactive Reporting provides user driven, Ad hoc query, data warehouse reporting, and interactive dashboards. *Available as part of the Oracle Business Intelligence Suite Enterprise Edition Plus, or as a standalone offering.*

### **Oracle Hyperion SQR Production Reporting**

Hyperion SQR Production Reporting offers high volume reporting with flexible output options. *Available as part of the Oracle Business Intelligence Suite Enterprise Edition Plus, or as a standalone offering.*

### **Oracle Hyperion Financial Reporting**

Hyperion Financial Reporting provides GAAP compliant Management and Statutory financial reporting. *Available as part of the Oracle Business Intelligence Suite Enterprise Edition Plus, or as a standalone offering.*

### **Oracle Hyperion Web Analysis**

Hyperion Web Analysis provides executives, business users, and analysts with the most intuitive user-directed Web-based query and Web analysis capabilities available, accessed through context-driven, thin-client user interface from sources like Hyperion Essbase and SAP BW. *Available as part of the Oracle Business Intelligence Suite Enterprise Edition Plus, or as a standalone offering.*

# OFM: Development Tools

Oracle Fusion Middleware's strategy is to substantially enhance developer productivity through declarative development via a robust single integrated development environment (Oracle JDeveloper) for the entire middleware stack. Simultaneously, another strategic goal is to preserve developer choice and support Eclipse developers with the sophisticated tooling of the Oracle Enterprise Eclipse Pack.

## Key Development Tools Products:

### Oracle Enterprise Eclipse Pack

The Oracle Enterprise Pack for Eclipse is a set of certified plug-ins, enabling the development support of Java EE standards where Eclipse is the preferred Integrated Development Environment (IDE) within an organization. As part of Oracle Fusion Middleware, the Oracle Enterprise Pack for Eclipse will support development with tooling supporting JEE, Java SE, JavaServer Faces, Web Services, XML, Spring Framework, Struts, Database Development, and CSS & Javascript. *Available as a free product.*

### Oracle JDeveloper

Oracle JDeveloper is a comprehensive standards-based Java, XML, PL/SQL, and SOA development environment that can be used to best exploit the capabilities of the Oracle Fusion Middleware. JDeveloper provides integrated support for the various stages of the development lifecycle including modeling, editing, compiling, debugging, deploying, tuning, and configuration management. *Oracle JDeveloper is available as a free product and is bundled with many Fusion Middleware offerings.*

### Oracle Application Development Framework

The Oracle Application Development Framework (ADF) is an advanced platform-neutral Rapid Application Development framework to build new applications that lets developers focus on the business domain, rather than coding the underlying plumbing. *Oracle ADF is available as part of the Oracle WebLogic Server Standard Edition, WebLogic Server Enterprise Edition, and WebLogic Suite or as a stand-alone license offering.*

### Oracle TopLink

Oracle TopLink is an advanced Java persistence architecture that integrates the object, xml, and relational data worlds, allowing application developers to easily store and retrieve Java objects using relational data. *Oracle TopLink is part of the Oracle WebLogic Server Standard Edition, WebLogic Server Enterprise Edition, and WebLogic Suite or as a stand-alone license offering.*

### Oracle Developer Suite

Oracle Developer Suite is a suite of tools that are optimized for building applications that take full advantage of the traditional Oracle Application Server. The tools focus on two key solution areas: developing web applications and enabling business intelligence. The suite includes:

Oracle JDeveloper	Oracle Forms Developer
Oracle Reports Developer	Oracle Discoverer Administrator
Oracle Designer	Oracle Business Intelligence Beans

*Oracle Developer Suite is licensed per named developer.*

### Oracle Designer

Oracle Designer provides a classic computer-aided design environment for developing applications by modeling them through a graphical user interface. *Part of Oracle Developer Suite.*

### Oracle Discoverer

Oracle Discoverer provides intuitive, ad-hoc query, analysis, and Web publishing functionality that opens up the OLAP and analytic power of the Oracle Database, enabling novice users to access data and perform advanced analysis without knowing SQL. *Part of Oracle Application Server Enterprise Edition.*

### Oracle Forms and Reports

Oracle Forms Services is the web-based deployment server for applications built with Oracle Forms Developer. Forms Services provides a rich user-interface while minimizing network traffic and ensuring scalability for large enterprise applications. This offering additionally includes Oracle Reports Services. *Oracle Forms and Reports is available as a stand-alone license offering or as part of the Oracle Application Server Enterprise Edition.*



- **The World's Largest Commercial Database** (100 Terabytes) runs Oracle. In addition, the latest Winter Corporation TopTen Program found that the Oracle Database powers 9 of the top 10 UNIX OLTP systems, all of the top 10 Linux systems, and that Oracle is the only vendor whose customers posted top results on Linux, UNIX, and Windows platforms.
- **Oracle Exadata Storage provides** optimized storage and extreme performance for Oracle Databases. Read more in our spotlight on "Oracle Exadata / Oracle Database Machine" elsewhere in this document.
- **Worried about disaster recover?** The Oracle Database Enterprise Edition offers Oracle Data Guard- a built-in infrastructure that creates, maintains, and monitors one or more standby databases to protect enterprise data from failures, disasters, errors, and corruptions.
- **Industry-Leading Security** Oracle Database has unique security features that address requirements in the areas of privacy, regulatory compliance, and data consolidation, including row-level security, fine grained auditing, and transparent data encryption.
- **In Gartner's annual report on database market share**, the Oracle database market share is greater than Microsoft SQL Server and IBM DB2 combined. The same report shows that Oracle Database has over 80% of the Linux database market.
- **Oracle Database 11g 'Shoots the Moon'** with an 'impressive array of performance and management aids, elegant application testing, standbys that earn their keep, and the promise of lower storage requirements' reports *InfoWorld*. (June 4, 2008)

## Oracle Database

### The Database for Information Infrastructure Agility

Change is constant and organizations must constantly adapt to change. But IT complexity makes it slow to adapt; there are too many too many things to manage and too many kinds of things to manage. The Oracle Database is designed to help businesses adapt more quickly by using grid computing to reduce the complexity of IT. The Oracle Database is the platform that can reduce the number of things that IT must manage and the number of kinds of things that IT must manage. The end result is that the Oracle Database brings consolidation, virtualization, and rationalization to the information infrastructure.

### Oracle Database Architecture

The Oracle Database is built on a well-proven core architecture that provides a reliable, robust engine even under the most strenuous conditions. The core Oracle Database architecture includes unmatched features such as:

#### Key Differentiator: Platform Portability

The Oracle database is developed as a single product (not different code lines with the same brand name) available across a diverse range of operating systems (e.g. Windows, Unix, Linux, and Z/OS), processor types, and architectures (e.g. single processor machines, SMP, clusters, grids). Portability provides customers with flexibility to choose open platforms and to avoid expensive hardware lock-in limitations.

#### Key Differentiator: Robust Locking and Concurrency Model

A database needs to balance the conflicting needs of multiple users simultaneously working with the same dataset. Most databases force their customers to choose between data accuracy and throughput. With Oracle, this is unnecessary. Oracle's unique non-escalating multi-version read consistency model provides consistent and accurate results without inaccurate dirty reads or performance-destroying blocking reads. Oracle's multi-version read consistency model does not use read locks, therefore readers of data do not block writers and writers do not block readers. And Oracle's model does not require workload separation; therefore queries and transactional activity can run simultaneously.

#### Key Differentiator: "Flashback" Protection for Human Errors

Oracle's unique multi-version read-consistency model enables sophisticated flashback capabilities to allow administrators to easily diagnose and undo the effect of human, revolutionizing recovery from the most common cause of data loss.

#### Key Differentiator: Security By Culture, Design, and Evaluation

The Oracle Database provides the strongest security available in the industry today. Building secure products has been part of the culture of Oracle and the design of our products since our founding. To further reinforce this effort, Oracle has successfully undertaken 22 rigorous independent security evaluations, far more than any other vendor.

## Key Differentiator: Integrated Self-Managing Architecture

Oracle Database 10g introduced a significantly enhanced self-managing database that automatically monitors, adapts, and fixes itself. Key self-managing functionality includes Automatic Storage Management, Automatic Memory Tuning, Automatic Undo Retention, Automatic Analyze of Optimizer Statistics, Automatic Checkpoint Tuning, and Automatic Backup/Recovery to Flash Recovery Area. Oracle Database 11g extends this with new features such as the Data Recovery Advisor.

## Key Differentiator: Ready for the Future

The Oracle Database is already architected to help customers exploit the latest advances in the computing ecosystem. For instance, the Oracle Database can easily take advantage of Oracle's well-proven commitment to Linux systems. The Oracle Database is also ready to run on easy-to-manage grids of storage hardware (see the Oracle Automatic Storage Management feature below and the spotlight on "Oracle Exadata / Oracle Database Machine") and able to take advantage of clusters of lower cost servers (see the Oracle Real Application Clusters Option below).

## Oracle Database Enterprise Edition

Oracle Database Enterprise Edition is ideal for organizations that need to support high volume on-line transaction processing and query intensive data warehousing applications. It provides unique availability benefits that protect your data from costly human error, reduce the downtime associated with routine maintenance, and includes self-managing capabilities to help you lower your operational costs. A partial list of Oracle Database Enterprise Edition functionality includes:

### SQL

SQL (Structured Query Language) is the language spoken by the database. The Oracle Database provides advanced SQL features including transactional support, object-relational support, expression filters, XQuery, SQL/XML extensions, SQL Analytical extensions, SQL Model (spreadsheet calculations in the database) support, SQL Regular Expressions, built-in ETL (extract-transform-load) capabilities, distributed queries, distributed transactions, and heterogeneous services. *Also part of Standard Edition.*

### PL/SQL, Java, and .NET Stored Procedures

The Oracle Database is a powerful procedural engine for server-side logic. This logic can be coded in either Oracle's PL/SQL language, Java, or .NET-based languages like C# and VB.NET. The Java Virtual Machine is built right into the Oracle Database allowing Java code to run faster, more securely and more reliably. The Oracle Database can compile both PL/SQL and Java logic to native machine code for additional performance. Support for .NET Stored Procedures is available on Windows Server platforms. *Also part of Standard Edition.*

### Enterprise Manager Database Control

The built-in Enterprise Manager Database Control console provides a web-based interface that shows at a glance the status of your database and cluster environment, and allows database administration actions from any browser connected to your system. *Also part of Standard Edition. The Database Diagnostics, Tuning, Change Management, and Configuration Management Packs are available separately and discussed in the Enterprise Manager section.*

### Application Express (formerly called HTML DB)

Application Express is a declarative development environment for non-programmers to create database-centric web applications. Using only a web browser, entry-level developers and power users can quickly assemble sophisticated and fast web applications that leverage all the Oracle Database's capabilities. *Also part of Standard Edition.*

### Warehouse Builder

This tool simplifies the design and loading of data warehouses and data marts. *The base Warehouse Builder functionality is provided as part of the Standard and Enterprise Editions of the database. Additional and extended capabilities are available as part of the Oracle Data Integrator Enterprise Edition license offering.*

### Flashback Query and Flashback Versions Query

These unique features allow the user to query data at a point-in-time in the past, or to view past changes to the data, in order to reconstruct lost data that may have been deleted or changed by accident. *Also part of Standard Edition.*

### Flashback Drop

This feature provides a safety net when dropping objects as you can very quickly and easily undrop a table and its dependent objects. *Also part of Standard Edition.*

### Flashback Table

This lets you quickly and easily recover a table or a set of tables to a point in time in the past without restoring a full backup of the database.

## Flashback Transaction Query

This lets you examine changes to the database at the transaction level. As a result, you can quickly and easily diagnose problems, perform analysis, and audit transactions.

## Flashback Database

This lets you quickly bring your database to a prior point in time by undoing all the changes that have taken place since that time. This operation is fast, because you do not need to restore the backups. This in turn results in much less downtime following widespread data errors or human mistakes.

## Automatic Storage Management

Automatic Storage Management is a software storage management layer that automates and simplifies the optimal layout and performance of all Oracle database-managed disk storage. Database files are automatically distributed across all available disks, and database storage is rebalanced whenever the storage configuration changes. This feature also provides redundancy through the mirroring of database files. *Also part of Standard Edition.*

## Server Managed Backup and Recovery

Recovery Manager (RMAN) is Oracle's utility to manage the backup, and more importantly the recovery, of the database. Since RMAN is tightly integrated with the Oracle kernel, it provides the insight and wisdom to efficiently backup and recover your Oracle databases. This tight integration allows RMAN to provide online backups, incremental backups, backup compression, predefined backup strategies, and more. *Also part of Standard Edition. See also the related database product: Oracle Secure Backup.*

## Data Guard

Data Guard provides a completely integrated disaster recovery solution through automatically maintaining one or more standby databases by keeping them transactionally consistent with the primary database. In 11g, real-time queries against physical standbys are now supported for even more cost-effective standby approaches.

## Online Schema Reorganization

This feature enhances availability and manageability by allowing end-users full read-write access to the database during a data reorganization operation. Redefinition can include adding/dropping/renaming columns, adding partitioning support, modifying storage parameters, moving tables, switching to an index-organized table, creating/coalescing/rebuilding indexes and more.

## Summary Management (Materialized Views and Query Rewrite)

Summary management consists of mechanisms to optimize the performance of querying large datasets. This allows the Oracle Database to pre-join and pre-compute query results and transparently rewrite end-user SQL to use the summary tables (known as materialized views).

## Enterprise User Security

This capability allows you to manage database users and authorizations in a central LDAP directory, which significantly reduces the cost of database user provisioning and password resets.

## Virtual Private Database

This feature provides the ability implement security policies to tightly control data access at a row or column level to restrict users from data they do not need to access.

## SecureFiles

This feature enables unstructured data to be stored in the database and supports the querying and compression of the unstructured data. *Also part of Standard Edition. Compression available via the Advanced Compression Option.*

## InterMedia and Text

These features provide advanced capabilities to manage multimedia content for applications that utilize image, audio, video, and textual data. *Also part of Standard Edition.*

## Locator

This enables spatial/geographic data storage, indexing, and operations to support a variety of location-based services and 3rd party GIS solutions. *Also part of Standard Edition.*

## **XML DB**

A high-performance native XML storage and retrieval technology that fully absorbs the W3C XML data model into the Oracle Database, and provides new standard access methods for navigating and querying XML. With Oracle XML DB, you get all the advantages of relational database technology plus the advantages of XML. *Also part of Standard Edition.*

## **Advanced Queuing**

This is a database integrated message queuing feature that provides automatic and guaranteed message propagation to enable business message communication between different applications while offering unprecedented levels of functionality, operational simplicity, reliability, and security. Advanced Queuing also provides the database persistent messaging layer of the Oracle Fusion Middleware Enterprise Messaging Service component. *Also part of Standard Edition.*

## **Workflow**

Oracle Workflow is a workflow management infrastructure that supports business process definition and automation. This technology enables automation and continuous improvement to enterprise processes by flexibly routing information of any type according to user-defined business rules. *Also part of Standard Edition.*

## **Additional Features**

Other features in Oracle Database Enterprise Edition include Advanced Multi-Master Replication, Data Compression, Online Index Build, Parallel Query, Parallel DML, Bitmap Indexes and Bitmap Join Indexes, Resource Prioritization Management, Block Media Recovery, Fast-Start Time-limited Recovery, Trial Recovery, Incrementally Updated Backup Images, Cross-Platform Transportable Tablespaces, Asynchronous Change Data Capture, and Fine-grained Auditing.

## **Available Options for Oracle Database Enterprise Edition**

The industry-leading Enterprise Edition functionality can be extended by the capability to purchase additional optional products:

### **Oracle Active Data Guard Option**

Active Data Guard enhances the Quality of Service for production databases by offloading resource intensive operations to one or more standby databases, which are synchronized copies of the production database. *Available as an option to the database or as part of Oracle GoldenGate. This option requires 11g.*

### **Oracle Advanced Compression Option**

This option provides resource-saving compression capabilities for OLTP workloads, data guard, recovery manager, data pump, and SecureFiles. *This option requires 11g.*

### **Oracle Advanced Security Option**

This option provides support for strong authentication and encryption across networks, external authentication services for database users, and Transparent Data Encryption for protecting critical information stored in databases and backups.

### **Oracle Data Mining Option**

Oracle Data Mining allows organizations to build advanced business intelligence applications that mine databases, discover new insights, and integrate that information into end-user applications. For optimal performance, Oracle Data Mining embeds data mining functionality directly into the Oracle database for making classifications, predictions, and associations.

### **Oracle Database Vault Option**

Oracle Database Vault brings state-of-the-art data protection and access control capabilities, introducing several new and very powerful security concepts such as Factors, Rule Sets, Command Authorizations, Realms, Secure Application Roles and Protected Schemas that are tightly integrated with existing Oracle technologies such as Oracle Label Security, Oracle Virtual Private Database, Transparent Data Encryption and Oracle Real Application Clusters. Database Vault keeps the DBA from viewing application data, a top concern for customers today.

### **Oracle Enterprise Manager Management Packs**

The available packs (Diagnostics, Tuning, Data Masking, Change Management, Provisioning and Patch Automation, and Configuration Management) enhance the baseline capabilities of the Oracle Database to provide an unbeatable combination of high-end database capabilities with minimal human labor input. The packs are discussed in the Enterprise Manager section, later in this document.

### **Oracle In-Memory Database Cache Option**

Oracle TimesTen In-Memory Database empowers applications with instant responsiveness and very high throughput for performance-critical functions in real-time enterprises and industries such as telecom, capital markets and defense. With an Oracle TimesTen In-

Memory Database, your applications are able to access, capture or update information many times faster — giving you the power to attract and retain more customers, sense and respond to business-critical events when they are most valuable, and deliver new services — all while using standard relational database technology and familiar programming interfaces.

### **Oracle Label Security Option**

This provides an out-of-the-box virtual private database implementation that provides sophisticated and flexible data security. Oracle Label Security employs labeling concepts used by government, defense, and commercial organizations to protect sensitive information and provide data separation.

### **Oracle OLAP Option**

Fully integrated inside the database, Oracle OLAP (online analytic processing) provides a complete set of analytical functions. Using multi-dimensional queries and calculations, information such as enrollment trends, budgets, forecasts, and net present value can be derived. Oracle Business Intelligence, a Java OLAPI API, native SQL access, and 3<sup>rd</sup> party tools provide efficient options for building applications that require complex analytical queries.

### **Oracle Partitioning Option**

Oracle Partitioning enables intelligent partitioning of large tables and indexes into small manageable pieces in order to provide higher availability, increased performance, and reduced impact of media failure. Range, hash, list, reference, virtual-column, and composite partitioning methods are supported. The downloadable, free Oracle Information Lifecycle Management (ILM) Assistant tool and the new 11g Partitioning Advisor help IT managers use the Partitioning Option to manage vast quantities of data at the lowest cost and to meet regulatory retention requirements.

### **Oracle Real Application Clusters Option**

Oracle Real Application Clusters provides unlimited scalability and high availability for packaged or custom applications by exploiting clustered hardware configurations. Oracle Real Application Clusters allows access to a single database image from multiple nodes while insulating application and database users from hardware and software failures. Oracle Real Application Clusters provides unbreakable performance that scales and grows with the hardware environment. *Oracle Real Application Clusters is also included with Oracle Database Standard Edition for clusters of up to 4 CPUs total.*

### **Oracle Real Application Clusters One Node Option**

Oracle Real Application Clusters One Node extends the benefits of server virtualization to single-instance databases on physical hardware. *This option requires 11gR2.*

### **Oracle Real Application Testing Option**

Oracle Real Application Testing Option provides sophisticated support for true real-world database workload capture and playback. This enables customers to identify situations where changes (such as database upgrades/patches, statistics refreshes, new indexes, new hardware) result in performance regressions (or improvements). *Workload capture is available for 9i, 10g R1, 10g R2 and 11g.*

### **Oracle Spatial Option**

Oracle Spatial Option extends the core Locator features to support high-end GIS and location-based services.

### **Oracle Total Recall Option**

Oracle Total Recall Option provides the ability to transparently track historical changes to data in a highly efficient and secure manner. It provides built-in security, retention and purge capabilities. *Total Recall Option requires 11g.*

## **Related Database Products: Oracle Audit Vault**

There is a need to securely centralize audit data across all systems into a single audit warehouse that is secure, scalable, reliable, and highly available. Oracle Audit Vault is a product that enables the collection, monitoring, storage, verification and reporting of audit data from various systems and sources.

## **Related Database Products: Oracle Berkeley DB**

Oracle Berkeley DB, Berkeley DB Java Edition, and Berkeley DB XML are open-source developer databases (also available under commercial licenses) that provide developers with fast, reliable, local persistence with little or no administration.

### **Related Database Products: Oracle Database Express Edition (XE)**

Oracle Database Express Edition (Oracle Database XE) is an entry-level, small-footprint (150MB) database based on the Oracle Database code base that's **free** to develop, deploy, and distribute; fast to download; and simple to administer. With Oracle Database XE you can now develop and deploy applications with a powerful, proven, industry-leading infrastructure, and then upgrade when necessary without costly and complex migrations. Oracle Database XE can be installed on any size host machine with any number of CPUs, but this free version of the world's leading database will store up to 4GB of user data, use up to 1GB of memory, and use only one CPU on the host machine. Support for Oracle Database XE is available only via the online community forum at the Oracle Technology Network.

### **Related Database Products: Oracle Database Gateway Products**

The Oracle Enterprise Edition Database provides built-in support for Advanced Replication, Distributed Transactions, and Heterogeneous Connectivity via ODBC and OLE-DB. This functionality can be extended with additional *Database Gateways* (gateways available for MS SQL Server, Sybase, Informix, Teradata, VSAM, IMS, DRDA, Adabas, APPC, and WebSphere MQ).

### **Related Database Products: Oracle Database Lite Mobile Server and Lite Client**

The single-user, small footprint mobile component of the Oracle Internet platform designed to run disconnected on laptops, handheld devices, and next-generation cellular phones.

### **Related Database Products: Oracle Developer Tools for Visual Studio .NET**

The **free** Oracle Developer Tools for Visual Studio .NET (ODT) is a tightly integrated "Add-in" for Microsoft Visual Studio that brings the power of the Oracle Database to .NET developers.

### **Related Database Products: Oracle Migration Workbench**

The Oracle Migration Workbench, available as part of the **free** Oracle SQL Developer tool, simplifies the process of migrating third-party database systems to Oracle. The tool migrates the entire database schema, including stored procedures if feasible, in an integrated environment.

### **Related Database Products: Oracle Programmer**

A rich set of interfaces for developers who write low-level code that accesses the Oracle Database. This product includes embedded SQL interfaces (precompilers such as Pro\*C and Pro\*COBOL, SQL\*Module, and SQLJ), a package of tools for the Microsoft platform (Oracle Objects for OLE), and two utilities (Object Type Translator and JPublisher).

### **Related Database Products: Oracle Secure Backup**

Oracle Secure Backup provides tape backup management for the entire Oracle environment. You can use Oracle Secure Backup to back up Oracle databases and host file systems to tape through direct-attached or network-attached tape drives. Oracle Secure Backup provides centralized management and control over backup and restore operations. Oracle Secure Backup Express Edition is provided free with the Oracle Database.

### **Related Database Products: Oracle Secure Enterprise Search**

Oracle Secure Enterprise Search enables a secure, high quality, easy to use search across all enterprise information assets. Key features include highly secure crawling, indexing, and searching of public, private and shared content across intranet web content, databases, files on local disk or file-servers, IMAP email, document management systems, applications, and portals. *Connectors for Documentum, Filenet, Lotus Notes, Hummingbird DM, OpenText, DB2 Content Manager, Oracle E-Business Suite, and Siebel are licensed separately.*

### **Related Database Products: Oracle SQL Developer**

Oracle SQL Developer is a new, **free** graphical tool that enhances productivity and simplifies database development tasks. With SQL Developer, you can browse database objects, run SQL statements and SQL scripts, and edit and debug PL/SQL statements. You can also run any number of provided reports, as well as create and save your own.

### **Related Database Products: Oracle SQL Developer Data Modeler**

Oracle SQL Developer Data Modeler is a standalone product with a full spectrum of data and database modeling tools and utilities, including modeling for Entity Relationship Diagrams (ERD), Relational (database design), Data Type and Multi-dimensional modeling, full forward and reverse engineering and DDL code generation. The Data Modeler imports from and exports to a variety of sources and targets, provides a variety of formatting options and validates the models through a predefined set of design rules. *Available as a separately licensed offering.*



- **Save Money with Smarter Management.**

Oracle Enterprise Manager completes the Oracle platform, providing integrated management and monitoring. All services within the enterprise, including hosts, databases, application servers, storage, and entire applications, are easily managed as one cohesive unit.

- **According to a detailed study conducted**

by Crimson Consulting Group, Oracle Application Server environments are approximately 80 percent less costly to manage than those from other major vendors.

- **Oracle Enterprise Manager automates**

time-consuming, error-prone administrative tasks, so DBAs can focus on strategic business objectives. Studies from the Edison Group prove Oracle Database offers superior manageability and significant cost savings over IBM DB2 as well as Microsoft SQL Server.

- **A Forrester Research Total Economic**

Impact™ study of Oracle Enterprise Manager Database Diagnostic Pack and Database Tuning Pack found a very favorable 100% ROI (122% non risk-adjusted ROI) over a three-year period with a risk adjusted payback period of 16 months (15 months non risk adjusted).

# Oracle Enterprise Manager

## Enterprise Manager Grid Control 11g

Oracle Enterprise Manager Grid Control provides a single console to manage the entire Oracle ecosystem. Grid Control and the baseline Enterprise Manager functionality are bundled with the other Oracle products. This functionality can be complimented by several licensable management packs.

### Operations/Performance Management Packs and Products:

#### Application Management Pack for PeopleSoft, Siebel, E-Business Suite, and JD Edwards Enterprise One

These packs enable administrators to improve the performance and availability of the core business applications while lowering the total cost of ownership by bringing the power of Oracle Enterprise Manager Grid Control into their applications-specific environments and components. *Each pack is licensed separately.*

#### Application Change Management Pack for E-Business Suite

Application Change Management Pack extends Oracle Enterprise Manager Grid Control to lower the cost of managing changes in an E-Business Suite environment through three new components: Customization Manager, Patch Manager, and Setup Manager.

#### Configuration Management Pack for Database

Oracle Configuration Management Pack for Oracle Database supports the Oracle Database and underlying Host and OS enabling extreme control of IT configurations through broad and deep coverage of configuration items coupled with industry leading, powerful automation capabilities.

#### Configuration Management Pack for Applications

The Configuration Management Pack discovers and tracks configuration data for all elements of the software stack from the OS up to packaged applications. This pack lowers your application support costs by simplifying and automating manual tasks for managing configuration settings. It also improves service levels by reducing the largest source of application outages—configuration errors.

#### Database Diagnostic Pack

This pack offers sophisticated real-time and historical performance monitoring of databases and operating systems with threshold-based event notifications. The pack also provides access to the Oracle Database Automatic Database Diagnostic Monitor (ADDM) and Automatic Workload Repository.

#### Database Tuning Pack

The database tuning pack offers advanced automated SQL tuning capabilities for the Oracle database. These tools include the SQL Tuning Advisor, SQL Profiles, and the SQL Access Advisor.

### **Diagnostics Pack for Oracle Middleware**

This pack provides tools for Application Performance Management including real-time and historic Performance Monitoring and Event Management, Advanced Diagnostic Reports, and System Dashboards. Components include Oracle Application Diagnostics for Java (AD4J) and Oracle JRockit Mission Control.

### **Management Pack for Business Intelligence**

Oracle Business Intelligence Management Pack is an integrated solution for ensuring the performance and availability of Oracle Business Intelligence Enterprise Edition.

### **Management Pack for Coherence**

The Coherence Management pack provides comprehensive tools for discovery, monitoring, reporting, events management, configuration management, lifecycle management, and deployment automation to simplify the management of your entire Oracle Coherence cluster.

### **Management Pack for GoldenGate**

This pack manages, monitors and provides GUI-based administration for Oracle GoldenGate and Oracle GoldenGate for Mainframe.

### **Management Pack for Identity Management**

The Identity Management pack delivers comprehensive management capabilities for the Oracle Identity and Access Management Suite.

### **Management Pack for Linux**

Oracle Management Pack for Linux provides an integrated and cost-effective solution for complete Linux server lifecycle management. Based on Oracle Enterprise Manager 10g, the Oracle Management Pack for Linux delivers comprehensive provisioning, patching, monitoring and administration capabilities via a single, Web-based user interface. *Management Pack for Linux is available exclusively as part of Oracle Enterprise Linux Support offerings.*

### **Management Pack for Oracle VM Management**

The Management Pack for Oracle VM provides advanced monitoring capabilities for large-scale Oracle VM deployments.

### **Management Pack for WebCenter Suite**

Leveraging a sophisticated modeling engine, the Oracle Enterprise Management Pack for WebCenter Suite, ensures your missioncritical portal and J2EE applications perform at peak levels. By correlating portal application services to the underlying code components and automating application performance management, Oracle Enterprise Management Pack for WebCenter Suite is the only solution that fills the IT visibility gap at the abstract portal layer..

### **SOA Management Pack Enterprise Edition**

SOA Management Pack delivers comprehensive management capabilities for a SOA environment. Enterprise Manager makes it easy for the IT administrator to manage SOA runtime environments by composite application modeling and monitoring, business transaction monitoring (Amberpoint), managing service levels for business processes and partner links, and providing an error management solution for process instances. The SOA infrastructure components are managed in conjunction with existing components, with topology, service level and alerting functionality.

### **WebLogic Server Management Pack Enterprise Edition**

The Management Pack for WebLogic Server greatly improves application performance management, by providing unique functionality such as configuration management, provisioning and patch automation, business transaction management (formerly known as Amberpoint), and model driven diagnostics of the applications running on an Oracle WebLogic Server environment.

### **Provisioning and Patch Automation Pack**

The Provisioning and Patch Automation Pack automates deployment of software, applications, and patches. This pack provides functionality for bare metal provisioning of operating systems and software images, cloning of existing installations and software images, and patching. It makes critical data center operations easy and scalable resulting in lower operational risk and cost of ownership.

### **Real User Experience Insight**

Oracle Real User Experience Insight enables enterprises to maximize the value of their business critical web applications by delivering insight into real user performance and experiences via passive monitoring that requires no application instrumentation or changes. *Real User Experience Accelerators for Siebel, Peoplesoft, E-Business Suite, and JD Edwards available separately.*

### **Service Level Management Pack**

This pack actively monitors and reports on availability and performance of services, including end-user business functions, Web Applications, and infrastructure components. Using service tests or synthetic transactions executed from beacons at remote user locations, business can monitor services from the user's perspective and its correlation to the underlying IT infrastructure.

### **Management Pack for non-Oracle Middleware**

This pack provides business transaction monitoring (formerly known as Amberpoint) as well as monitoring plugins for Microsoft Internet Information Services (IIS) and Microsoft BizTalk Server.

### **System Monitoring Plug-Ins and Management Connectors**

Oracle Enterprise Manager System Monitoring Plug-Ins allow customers to manage and monitor additional components like hosts, storage, network devices, and non-Oracle databases and middleware. System Monitoring Plug-ins are licensed separately and are currently available for IBM DB2, Microsoft SQL Server, IBM WebSphere MQ, Microsoft Active Directory, Microsoft .NET, Microsoft ISA Server, Microsoft Commerce Server, Juniper Netscreen Firewall, Check Point Firewall, NetApp Filers, EMC NS Series NAS, EMC CLARiiON, EMC Symmetrix DMX, HP OpenView, CA Service Desk, Remedy Helpdesk, IBM Tivoli Enterprise Console, and more.

## **Application Quality Management Packs and Products:**

### **Database Change Management Pack**

Tools to compare, contrast, and synchronize database schema contents between different databases, such as test and production, are the focus of this pack.

### **Database Data Masking Pack**

The Data Masking Pack helps customers share production data with other non-production users, such as application developers or offshore testers, by replacing sensitive or confidential data with realistic but scrubbed data based on masking rules.

### **Database Real Application Testing Option**

Oracle Database Real Application Testing Option provides sophisticated support for true real-world database workload capture and playback. This enables customers to identify situations where changes (such as database upgrades/patches, statistics refreshes, new indexes, new hardware) result in performance regressions (or improvements). *Workload capture is available for 9i, 10g R1, 10g R2 and 11g. All Playback features work with 11g, some playback features available with earlier versions.*

### **Oracle Load Testing**

This allows users to simulate thousands of virtual users accessing a web application simultaneously to measure the effect of the load on application performance. *Accelerators are available for Siebel, E-Business Suite, ADF, and Web Services.*

### **Oracle Functional Testing**

This enables automated functional and regression testing for Web applications and Web Services. *Accelerators are available for Siebel, E-Business Suite, ADF, and Web Service.*

### **Oracle Test Manager**

Test Manager for Web Applications is a test process management solution on which users can build and organize their entire testing process.

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Disclaimer: This document attempts to give a general overview of the product offerings as described in the official Oracle Price List and Price List Supplement. This is intended for informational purposes only, and may not be incorporated into any contract. From time to time Oracle Corporation may change the product bundling and packaging in response to technology shifts and market pressures. Refer to <http://www.oracle.com/corporate/pricing/> or your sales representative for the latest, most accurate official product licensing information.

Send comments and corrections to [David.Bayard@oracle.com](mailto:David.Bayard@oracle.com)

# Useful Web Sites

<http://www.oracle.com/>

The main Oracle Corporation home page.

<http://www.oracle.com/technology>

The *Oracle Technology Network*. This site features technical information, documentation, forums, and downloads.

<http://www.oracle.com/technology/obe>

*Oracle-By-Example* hands-on tutorials for the Oracle Platform.

<http://www.oracle.com/technology/documentation>

Online links to Oracle Product Documentation.

<http://www.oracle.com/technology/tech/migration>

How to migrate data and applications to the Oracle Platform.

<http://www.oracle.com/technologies/microsoft/index.html>

Find out how Oracle interoperates with Microsoft Windows Server, .NET, and Office.

<http://www.oracle.com/technology/tech/fmw4apps/ebs/index.html>

<http://www.oracle.com/technology/tech/fmw4apps/peoplesoft/index.html>

<http://www.oracle.com/technology/tech/fmw4apps/siebel/index.html>

<http://www.oracle.com/technology/tech/fmw4apps/jde/index.html>

<http://www.oracle.com/technology/tech/fmw4apps/agile/index.html>

Fusion Middleware Best Practice Center for Oracle E-Business Suite, PeopleSoft, JDEdwards, Siebel, and Agile users.

<http://www.oracle.com/education/>

Information and schedules about *Oracle Education* training.

<http://www.oracle.com/oramag/>

The Web site for the *Oracle Magazine*. You can sign-up for a free subscription.

<http://www.oracle.com/support/>

The starting point for *Oracle Support Services*, including our electronic support systems.

<http://www.oracle.com/support/seminars.html>

A list of live and recorded internet seminars to help our customers to *Work Effectively With Oracle Support*.

<http://www.oracle.com/support/premier/lifetime-support-policy.html>

Oracle *Lifetime Support* provides support for as long as you license your Oracle products.

<http://www.oracle.com/applications/applications-unlimited.html>

The *Applications Unlimited* program provides continued support and enhancement for PeopleSoft, JDEdwards, Siebel, and other product lines.

<http://www.oracle.com/corporate/pricing/>

Home of the *Software Investment Guide* and other licensing information.

<http://asktom.oracle.com/>

A very useful Frequently Asked Question site maintained by Oracle's Tom Kyte.

<http://www.amazon.com/>

An Oracle reference customer, but also a great place to find books about Oracle. Books by Tom Kyte (see <http://asktom.oracle.com/>) are some of the best.