

Oracle® Enterprise Performance Management System

Installation Start Here

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Installation Documentation Roadmap

You can find Oracle Enterprise Performance Management System installation documentation in the [Oracle Documentation Library \(http://www.oracle.com/technology/documentation/epm.html\)](http://www.oracle.com/technology/documentation/epm.html) on Oracle® Technology Network. System requirements can be found in the *Oracle Hyperion Enterprise Performance Management System Certification Matrix* (<http://www.oracle.com/technology/products/bi/hyperion-supported-platforms.html>)

For faster access to the documentation for a specific release, you can use the Enterprise Performance Management Documentation Portal (<http://www.oracle.com/us/solutions/ent-performance-bi/technical-information-147174.html>), which also contains links to EPM Supported Platform Matrices, My Oracle Support, and other information resources.

Use this guide to help plan your EPM System product installation and configuration. Check the Oracle Documentation Library on Oracle® Technology Network to see whether an updated version of this guide is available.

Table 1 lists the documents to consult for instructions on performing essential installation tasks.

Table 1 Documentation That You Need

Task	Related Documentation
Planning the installation	This guide, <i>Oracle Hyperion Enterprise Performance Management System Installation Start Here</i> and system requirements in the <i>Oracle Hyperion Enterprise Performance Management System Certification Matrix</i> (http://www.oracle.com/technology/products/bi/hyperion-supported-platforms.html).
<ul style="list-style-type: none">● Installing and configuring EPM System products● Automatically deploying EPM System products● Starting EPM System products● Validating the installation● Upgrading EPM System products	<i>Oracle Hyperion Enterprise Performance Management System Installation and Configuration Guide</i>
Securing EPM System and provisioning users	<i>Oracle Hyperion Enterprise Performance Management System Security Administration Guide</i>

Table 2 lists the documents to consult for additional installation tasks that you might need to perform.

Table 2 Documentation That You Might Need

Task	Related Documentation
Manually deploying EPM System products	<i>Oracle Hyperion Enterprise Performance Management System Manual Deployment Guide</i>
Troubleshooting installations	<i>Oracle Hyperion Enterprise Performance Management System Installation and Configuration Troubleshooting Guide</i>
Creating a backup of product and application data	<i>Oracle Hyperion Enterprise Performance Management System Backup and Recovery Guide</i>
Migrating from one environment to another	<i>Oracle Hyperion Enterprise Performance Management System Lifecycle Management Guide</i>
Enabling SSL	<i>Oracle Hyperion Enterprise Performance Management System SSL Configuration Guide</i>
Clustering EPM System applications for high availability	<i>Oracle Hyperion Enterprise Performance Management System High Availability Guide</i>

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Understanding EPM System Products

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Use this chapter to help plan your deployment architecture.

Note: To see which product components are required and optional for your products, review the Media Pack Readme on [Oracle® E-Delivery](http://edelivery.oracle.com/) (<http://edelivery.oracle.com/>).

Primary families of EPM System products:

- Oracle Hyperion Foundation Services
- Oracle Essbase
- Oracle Hyperion Reporting and Analysis
- Oracle's Hyperion Financial Performance Management Applications
- Oracle's Data Management

Note: For information about how EPM System products integrate with Oracle Business Intelligence Enterprise Edition and Oracle Business Intelligence Publisher, see the *Oracle Business Intelligence New Features Guide* and the *Oracle Business Intelligence Publisher Administrator's and Developer's Guide*, respectively.

EPM System Product Descriptions

The following sections describe EPM System products.

Foundation Services

The following table describes Foundation Services products.

Product	Description
Oracle Hyperion Shared Services	<p>Shared Services integrates EPM System products to provide user provisioning, lifecycle management, and task flow management. It also provides the Shared Services Registry, a central repository that simplifies product configuration by storing and re-using information for most EPM System products that you install.</p> <p>Note: Also includes Oracle Hyperion Remote Authentication Module if you run Shared Services on UNIX and authenticate users with NTLM.</p>
Oracle Hyperion Enterprise Performance Management Workspace	<p>EPM Workspace provides a consistent and interactive thin-client environment for working with EPM content. EPM Workspace is the Web client for the following products:</p> <ul style="list-style-type: none"> ● Reporting and Analysis ● Oracle Hyperion Planning ● Oracle Hyperion Profitability and Cost Management ● Oracle Hyperion Financial Management ● Oracle Hyperion EPM Architect ● Oracle Hyperion Performance Scorecard ● Oracle Hyperion Calculation Manager <p>In addition, Oracle Business Intelligence Publisher and Oracle BI EE can be configured to integrate with EPM Workspace.</p>
Performance Management Architect	<p>Performance Management Architect enables creation and deployment of financial applications from a central location. The visual environment provided by Performance Management Architect provides a simple and intuitive user experience for modeling the financial business process, including data, dimensions, and application logic.</p> <p>Performance Management Architect works with the following products:</p> <ul style="list-style-type: none"> ● Calculation Manager ● Planning ● Financial Management ● Oracle Essbase ● Profitability and Cost Management
Calculation Manager	<p>Calculation Manager is a module with which Planning, Financial Management, and Essbase users can design, validate, and administer business rules in a graphical environment. Users of classic Planning and Financial Management applications may use either Calculation Manager or Oracle Hyperion Business Rules to design and administer their business rules; users of EPM System applications, however, may use only Calculation Manager to design and administer their business rules.</p>
Oracle Hyperion Smart View for Office	<p>Smart View provides a common Microsoft Office addin for various EPM System products - Essbase, Financial Management, Planning, and Reporting and Analysis. It can also import content from the Reporting and Analysis repository and can perform adhoc analysis on data from Oracle BI EE. Using Smart View, you can view, import, manipulate, distribute, and share data in Microsoft Excel, Word, and PowerPoint interfaces.</p>

Essbase

The following table describes Essbase products.

Product	Description
Essbase	Essbase is the business analysis server technology that provides an environment for rapid development of custom analytic and enterprise performance management applications. For example, Essbase enables line-of-business personnel to develop and manage analytic applications that model complex scenarios, forecast business trends, and perform "what-if" analyses. Essbase supports extremely fast query response times for vast numbers of users, for large data sets, and for complex business models. It is hot-pluggable across any data source.
Oracle Essbase Administration Services	Administration Services is the cross-platform administration tool for Essbase. It consists of Administration Server (a Java middle-tier server), and Essbase Administration Services Console (a thin-client console).
Business Rules	Business Rules, which is installed and configured as part of Administration Services, guides users through the creation, execution, and management of business rules on the Essbase Server component of Essbase. Business Rules improves the response time to changing business application needs, shortens application development cycles, increases business user productivity, improves re-use of application components, and increases the overall return on analytic application investments. Classic Planning works with Business Rules.
Oracle Essbase Integration Services	Integration Services provides a suite of graphical tools that can be used to create Essbase databases, OLAP models, and metaoutlines.
Oracle Hyperion Provider Services	Provider Services is a middle-tier data source provider to the following products: <ul style="list-style-type: none"> ● Essbase ● Planning ● Oracle BI EE ● Smart View for Office, Java API (Essbase data only) ● XMLA clients (Essbase data only) <p>The software supports highly concurrent analytical scenarios and provides scalability and reliability in a distributed Web-enabled enterprise environment.</p>
Oracle Hyperion Smart Search Command Line Utility	Smart Search Command Line Utility integrates with leading enterprise search solutions (Google Search Appliance and Oracle Secure Enterprise Search) to provide a familiar search interface. Using simple business terminology, users can obtain structured information from Essbase applications and databases. Information filtered according to user privileges is delivered in data grids and live links in Smart View for Office.
Oracle Essbase Studio	Essbase Studio consolidates cube-construction activities into one interface, enabling consistent performance for data load and outline build.

Reporting and Analysis

The following table describes Reporting and Analysis products.

Product	Description
Oracle Hyperion Interactive Reporting	Interactive Reporting provides intuitive user-directed query and analysis capabilities. This business intelligence software delivers these capabilities through an interface that enables users to design dashboards, and then monitor and navigate to relevant information.

Product	Description
Oracle Hyperion Financial Reporting	Financial Reporting enables generation of formatted, book-quality financial and management reports that comply with regulations and external requirements. Financial Reporting can help you control and increase operational efficiencies.
Oracle Hyperion SQR Production Reporting	Production Reporting generates high-volume, presentation-quality formatted reports and provides unparalleled performance—even when the data comes from disparate sources. Production Reporting delivers the business context for key metrics by consolidating information from core business applications throughout the enterprise.
Oracle Hyperion Web Analysis	Web Analysis delivers online analytical processing (OLAP) analysis, presentation, and reporting for the extended enterprise.

Financial Performance Management Applications

The following table describes Financial Performance Management Applications products.

Product	Description
Planning	<p>Planning is a centralized planning, budgeting, and forecasting solution that integrates financial and operational planning processes. Planning provides an in-depth look at business operations and their impact on financials by tightly integrating financial and operational planning models. With Planning, you can meet your immediate financial planning needs and also enable future cross-functional expansion and automated process integration.</p> <p>Planning administrators can create two types of applications: Classic Planning applications, which use Business Rules, and Performance Management Architect Planning applications, which use Calculation Manager business rules.</p>
Financial Management	<p>Financial Management is a comprehensive financial systems software application that delivers global collection reporting and analysis in a single, highly scalable solution. Financial Management uses today's most advanced technology, yet it is built to be owned and maintained by the enterprise's finance team.</p> <p>Financial Management users can create applications by using Performance Management Architect or Financial Management Classic.</p>
Performance Scorecard	Performance Scorecard is a Balanced Scorecard Collaborative certified application that helps companies clearly articulate strategy and goals, communicate them across the enterprise, and monitor key performance indicators. The software offers you complete strategy- and accountability-mapping capabilities, as well as Web-based message boards, forums, and discussion threads.
Oracle Hyperion Strategic Finance	Strategic Finance is a financial modeling application that enables executives to identify and understand the full financial impact of alternative corporate strategies. Strategic Finance delivers pre-packaged modeling and forecasting so your finance experts have more time for testing alternative strategies, building contingency plans, and understanding the impact of those strategies and plans on your company's long-term performance.
Profitability and Cost Management	Profitability and Cost Management is an analytic application for managing the cost and revenue allocations that are necessary to compute profitability for a business segment, such as a product, customer, region, or branch. The application enables you to use cost decomposition, consumption-based costing, and scenario playing to measure profitability, and it provides a meaningful operational decision-support system.

Data Management

The following table describes Data Management products.

Product	Description
Oracle Hyperion Data Integration Management	Data Integration Management provides a way of uniting disparate data sources across an enterprise. For example, it can integrate data that is stored in multiple warehouses and data marts, relational database management systems (RDBMS), and online analytical processing (OLAP) stores.
Oracle Hyperion Financial Data Quality Management	FDM is a packaged solution that, through its Web-based guided workflow, helps finance users to develop standardized financial data management processes. Its data preparation server can ease integration and validation of financial data from any source system. To further reduce data integration costs and data mapping complexities, FDM includes EPM adapters for a variety of source and target systems.
Oracle Hyperion Financial Data Quality Management ERP Integration Adapter for Oracle Applications	ERP Integrator is a module of FDM that enables you to integrate metadata and data from an Enterprise Resource Planning (ERP) source system into an Oracle Hyperion EPM target application. You can drill through from Financial Management or Planning web forms, Smart View or Financial Reporting and view details in the ERP source system.
Oracle Hyperion Data Relationship Management	Data Relationship Management enables enterprises to build consistency within master data assets despite endless changes within the underlying transactional and analytical systems. Data Relationship Management 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.

Architecture

The following tables show the EPM System product architecture, organized by tier. For details about which components are installed on each tier, see the *Oracle Hyperion Enterprise Performance Management System Installation and Configuration Guide*.

Foundation Services

The following table describes the architecture for Foundation Services products.

Product	Client Tier	Web Server ¹	Web Application Server	Services Tier
Shared Services		X ²	X	
EPM Workspace		X	X	X
Performance Management Architect	X	X	X	X
Calculation Manager		X	X	
Smart View for Office	X			

¹If Oracle Application Server is used as the Web application server, Oracle HTTP Server is also required.

²Required for drill through functionality

Essbase

The following table describes the architecture for Essbase products.

Product	Client Tier	Web Server ¹	Web Application Server	Services Tier
Essbase	X			X
Administration Services	X	X ²	X	
Integration Services	X			X
Provider Services	X	X ³	X	
Smart Search Command Line Utility			X	
Essbase Studio	X			X

¹If Oracle Application Server is used as the Web application server, Oracle HTTP Server is also required.

²Required for drill through functionality

³Required for drill through functionality

Reporting and Analysis

The following table describes the architecture for Reporting and Analysis products.

Product	Client Tier	Web Server ¹	Web Application Server	Services Tier
Interactive Reporting	X	X		X
Financial Reporting	X	X	X	X
Production Reporting	X	X		X
Web Analysis	X	X	X	

¹If Oracle Application Server is used as the Web application server, Oracle HTTP Server is also required.

Financial Performance Management Applications

The following table describes the architecture for Financial Performance Management Applications products.

Product	Client Tier	Web Server ¹	Web Application Server	Services Tier
Planning	X	X	X	
Financial Management	X	X		X
Performance Scorecard		X	X	
Strategic Finance	X	X		X

Product	Client Tier	Web Server ¹	Web Application Server	Services Tier
Profitability and Cost Management		X	X	

¹If Oracle Application Server is used as the Web application server, Oracle HTTP Server is also required.

Data Management

The following table describes the architecture for Data Management products.

Product	Client Tier	Web Server	Web Application Server	Services Tier
Data Integration Management	X			X
FDM	X	X Note: If Oracle Application Server is used as the Web application server, Oracle HTTP Server is also required.	X	X
ERP Integrator		X ¹	X	
Data Relationship Management	X	X		X

¹Required for drill through functionality

Platform Support

EPM System Release 11.1.1.4 supports both Windows and UNIX operating systems. Be sure to carefully read the *Oracle Hyperion Enterprise Performance Management System Certification Matrix* (<http://www.oracle.com/technology/products/bi/hyperion-supported-platforms.html>) for details on which Windows and UNIX versions are supported for products.

At a high level, the following table lists components of products that may only be installed on Windows.

Note: This does not cover any limitations within UNIX support such as support for certain UNIX versions.

Product Category	Product	Products/Components Supported on Windows Only
Foundation Services	Smart View	Smart View Client
	Remote Authentication Module	If using Remote Authentication Module, you must install Shared Services on Windows. Remote Authentication Module is part of the Shared Services installation.

Product Category	Product	Products/Components Supported on Windows Only
	Performance Management Architect	<ul style="list-style-type: none"> ● Dimension Server ● File Generator
Essbase	Essbase	Essbase Client (Oracle Essbase Spreadsheet Add-in)
	Administration Services	Essbase Administration Services Console
	Integration Services	Essbase Integration Services Client 32 bit
	Essbase Studio	Essbase Studio Client
	Oracle Essbase Visual Explorer	Smart View with Visual Explorer Client
Reporting and Analysis	Interactive Reporting	<ul style="list-style-type: none"> ● Interactive Reporting Studio Client ● Interactive Reporting Dashboard Development Services
	Financial Reporting	<ul style="list-style-type: none"> ● Financial Reporting Studio Client ● Financial Reporting Print Server Service
	Production Reporting	All Client components
Financial Performance Management Applications	Financial Management	All Components
	Strategic Finance	All Components
Data Management	FDM	All Components
	Data Relationship Management	<ul style="list-style-type: none"> ● Client ● Web Server ● Application Server

Disk Space and RAM

This section describes client and server disk space and RAM requirements for EPM System products.

Client Disk Space and RAM

This section does not apply to Web browser clients.

Disk space and RAM requirements are approximate. The installation program checks for twice the required disk space, based on your product installation choices.

The recommended RAM requirement for all clients is 1 GB.

The following table describes the required disk space and RAM for EPM System client components.

Product Family	Component	Disk Space (Minimum) ¹	Notes
Oracle Hyperion Enterprise Performance Management System Installer	EPM System Installer and all EPM System product assemblies	16 GB	After installation, the installation files and assemblies can be removed.
Foundation Services	Common client components	400 MB	
	Smart View for Office	100 MB	
	Performance Management Architect	20 MB	File generator and batch client components only
Essbase	Essbase Runtime Client	150 MB	
	Essbase Administration Services Console	300 MB	
	Essbase Integration Services Console	90 MB	
	Essbase Studio Console	80 MB	
Reporting and Analysis	Oracle Hyperion Financial Reporting Studio	400 MB	
	Oracle Hyperion Interactive Reporting Studio	700 MB	
	Oracle Hyperion Dashboard Development Services	190 MB	
	Oracle Hyperion SQR Production Reporting Studio	90 MB	
	Oracle Hyperion SQR Production Reporting Activator	30 MB	
	Production Reporting Remote	10 MB	
	Production Reporting Viewer	40 MB	
	Oracle Hyperion Web Analysis Studio	40 MB	
Financial Performance Management Applications	Offline Planning	280 MB	
	Financial Management Client	100 MB	
	Strategic Finance Client	700 MB	
	Oracle Hyperion Strategic Finance Reader	700 MB	
Oracle's Data Management	FDM Workbench	200 MB	

Product Family	Component	Disk Space (Minimum) ¹	Notes
	Data Relationship Management Client	40 MB	

¹Disk space does not include the common client components installed on the machine with Foundation Services.

Server Disk Space and RAM

Disk space and RAM requirements are approximate and do not include additional possible requirements on the machine. The installation program checks for twice the required disk space, based on your product installation choices. Disk space estimates include documentation help files (if applicable) and EPM System components.

Component	Disk Space (Minimum)	RAM (Minimum)
Shared Services	800 MB ¹	1.5 GB
EPM Workspace	2 GB For services: 400 MB For importing files: 2GB	1 GB For services: 1 GB
Performance Management Architect	125 MB	1 GB for Dimension Server 512 MB each for Web Tier and Data Synchronizer
Calculation Manager	45 MB	256 MB
Essbase Server	2 GB	1 GB
Application Programming Interface	40 MB	256 MB
Administration Services	1 GB ²	32 MB multiplied by the number of concurrent Administration Server users For example, 32 MB * 10 users = 320 MB
Essbase Integration Server	340 MB	256 MB
Provider Services	680 MB	340 MB
Essbase Studio Server	120 MB	256 MB
Financial Reporting	400 MB	1 GB
Interactive Reporting	1 GB	1 GB
Production Reporting	400 MB	256 MB
Web Analysis	2 GB	1 GB
Financial Management Server	64 GB (10 GB available)	4 GB

Component	Disk Space (Minimum)	RAM (Minimum)
Database Server for Financial Management	24 GB	4 GB
Planning	8 GB (10 GB available)	2 GB
Performance Scorecard	4 GB recommended	1 GB ³
Strategic Finance Server	700 MB ⁴	2 GB
Profitability and Cost Management	8 GB	2 GB
Data Integration Management	Refer to the Informatica PowerCenter 8.1.1 installation documentation.	Refer to the Informatica PowerCenter 8.1.1 installation documentation.
FDM Database Server	<ul style="list-style-type: none"> Dependent on size of the FDM application Multiple HDDs to spread processing 	1 GB per 75 concurrent users (2 GB minimum)
FDM folder structure	Dependent on size of the FDM application	
FDM Application Server	400 MB	2 GB (per 75 concurrent users)
FDM Web Server	400 MB	2 GB
ERP Integrator	300 MB	2 GB
Data Relationship Management-Database Server	4 GB	2 GB
Data Relationship Management-Application Server	200 MB	2 GB

¹This number is for the base Shared Services installation. More disk space is required based on embedded Shared Services Native Directory (OpenLDAP) usage for provisioning (depending on how often you back up OpenLDAP) and on Lifecycle Management usage. If using Lifecycle Management functionality, Oracle recommends that you significantly increase disk space because application data is stored in the Shared Services file system.

²Allow extra disk space for data files and outline files that are copied to Administration Server during data loading and outline editing, respectively.

³1 GB includes Performance Scorecard and Alerter servers.

⁴Sufficient storage should be included to contain the entities, their backup archives, administrative and transaction files, and user background task logs, such as consolidation reports.

Note: For data storage and binary installation, Essbase supports the use of any disk array device that is mounted with a local file system interface (for example, NTFS, HPFS, JFS, VxFS, and UFS). A disk array mounted using NFS or CIFS is not supported.

EPM System Software Dependencies

This section describes the required EPM System software for EPM System components.

Component	Required Software
Shared Services	EPM Workspace (Web server configuration required for drill through functionality)
Essbase	<ul style="list-style-type: none"> ● Shared Services (unless using Essbase in native security mode) ● Administration Services
Administration Services	<ul style="list-style-type: none"> ● Shared Services ● Essbase ● EPM Workspace (Web server configuration required for drill through functionality)
Provider Services	<ul style="list-style-type: none"> ● Administration Services ● EPM Workspace (Web server configuration required for drill through functionality)
Essbase Studio	<ul style="list-style-type: none"> ● Shared Services ● Essbase ● Administration Services
Smart View	Provider Services
Smart Search Command Line Utility	<ul style="list-style-type: none"> ● Shared Services ● Essbase
All Reporting and Analysis components	<ul style="list-style-type: none"> ● Shared Services ● EPM Workspace
Planning (using Classic application administration)	<ul style="list-style-type: none"> ● Shared Services ● EPM Workspace ● Essbase (Essbase Server and Administration Services components) ● Business Rules or Calculation Manager
Planning (using Performance Management Architect application administration)	<ul style="list-style-type: none"> ● Shared Services ● EPM Workspace ● Essbase (Essbase Server and Administration Services components) ● Performance Management Architect ● Calculation Manager (required for Oracle Hyperion Capital Asset Planning and Oracle Hyperion Workforce Planning)
Financial Management	<ul style="list-style-type: none"> ● Shared Services ● EPM Workspace ● Performance Management Architect (optional, if you are using Classic Application Administration) ● Calculation Manager (optional)
Performance Scorecard	<ul style="list-style-type: none"> ● Shared Services ● EPM Workspace ● Essbase (Essbase Server and Administration Services components) – required for custom reporting through cube production
Strategic Finance	<ul style="list-style-type: none"> ● Shared Services

Component	Required Software
Profitability and Cost Management	<ul style="list-style-type: none"> ● Shared Services ● EPM Workspace ● Performance Management Architect
Data Relationship Management Application Server	<ul style="list-style-type: none"> ● Shared Services—For external authentication only
FDM	<ul style="list-style-type: none"> ● Shared Services—For external authentication only
ERP Integrator	<ul style="list-style-type: none"> ● Shared Services ● EPM Workspace ● Oracle Data Integrator (ODI)¹

¹ODI 10.1.3.6 does not support Windows 2008 and therefore must be on a separate machine with a supported operating system.

Note: Provider Services integrates with Essbase, Administration Services, and Shared Services but is not required.

Note: For information about which releases of these required products are compatible with the current release of a particular EPM System product, see [Chapter 4, “Release Compatibility.”](#)

Runtime Clients

Some EPM System clients require the runtime clients of other EPM System or third-party products. EPM System runtime client and server versions must match.

For information on EPM System product interoperability, see [Chapter 4, “Release Compatibility.”](#)

The following table describes the supported runtime clients for EPM System client components.

Runtime Client	Required For
<ul style="list-style-type: none"> ● Essbase—The Essbase runtime client is installed automatically. ● Microsoft SQL Server 2000 SP3a Analysis Services ● Microsoft SQL Server 2005 SP1 Analysis Services 	<ul style="list-style-type: none"> ● Financial Reporting ● Interactive Reporting ● Production Reporting ● Web Analysis
<ul style="list-style-type: none"> ● Financial Management—The version of the Financial Management ADM driver and the version of Financial Management that is used for Financial Reporting and Web Analysis must match. ● Planning—The Planning ADM driver must be installed on all Financial Reporting server machines; it is a component in the EPM System Installer. 	<ul style="list-style-type: none"> ● Financial Reporting ● Web Analysis
Essbase—The Essbase runtime client is installed automatically.	Planning

3

Installation Planning Checklist

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Planning Your Installation

The following table provides a checklist to use to prepare for installing EPM System products. Oracle recommends that you review the checklist with your consultant at least one week before installation. Completing the checklist in advance of installation helps ensure a smoother, faster installation.

Table 3 Pre-installation Planning Checklist

Task	Comments	Check When Completed
Preparing the work area		
Prepare a work area for consultants who are assisting with the installation.	<ul style="list-style-type: none">● Internet access—a direct connection outside the firewall● Work area and computer (ideally located where the servers on which you are installing EPM System products are located), with network access● Telephone	
Ensure that you can access the Oracle® E-Delivery (http://edelivery.oracle.com/) site.		
Obtaining third-party licenses		
Obtain required third-party license keys.	<p>Some third-party products require license keys or license files. Requesting and receiving a license key can require several days.</p> <p>For Web application servers, consider which type of license works best for your organization. For example, you might not need a license for the highest level of functionality; a license for a lower level of functionality might meet your needs.</p>	
Preparing the software		

Task	Comments	Check When Completed
Download the EPM System Installer and the required product installation assemblies from the media packs for the products that you purchased.	<p>Download from the Oracle® E-Delivery (http://edelivery.oracle.com/) site.</p> <p>Review the Media Pack Readme on Oracle® E-Delivery to identify the products that are required and optional for use with your products.</p> <p>Tip: Oracle recommends that you download files to a shared drive.</p> <p>See the “Preparing the Installation Files” chapter of the <i>Oracle Hyperion Enterprise Performance Management System Installation and Configuration Guide</i> for information about how to unzip and organize the files.</p>	
Ensure that the products meet EPM System product release compatibility requirements.	See Chapter 4, “Release Compatibility.”	
Install all third-party components that are required by EPM System products.	<p>See the <i>Oracle Hyperion Enterprise Performance Management System Certification Matrix</i> (http://www.oracle.com/technology/products/bi/hyperion-supported-platforms.html).</p> <p>Ensure that you have obtained all licenses that are required by third-party software.</p>	
Validate that all third-party product versions meet system requirements.	See the <i>Oracle Hyperion Enterprise Performance Management System Certification Matrix</i> (http://www.oracle.com/technology/products/bi/hyperion-supported-platforms.html).	
Gathering required documentation		
Download the EPM System installation and product documentation for the products that you purchased.	<p>In addition to this guide, download the following files from the Oracle® E-Delivery (http://edelivery.oracle.com/) site or from the Oracle Documentation Library (http://www.oracle.com/technology/documentation/epm.html) on Oracle® Technology Network:</p> <ul style="list-style-type: none"> ● <i>Oracle Hyperion Enterprise Performance Management System Installation and Configuration Guide</i> ● <i>Oracle Hyperion Enterprise Performance Management System Security Administration Guide</i> ● <i>Oracle Hyperion Enterprise Performance Management System SSL Configuration Guide</i>, if you are using SSL ● <i>Oracle Hyperion Enterprise Performance Management System Installation and Configuration Troubleshooting Guide</i> ● Other installation and deployment documentation required for your deployment. (See Chapter 1, “Installation Documentation Roadmap.”) ● The documentation for the products that you are installing 	
Preparing the hardware		

Task	Comments	Check When Completed
Plan your deployment architecture.	<p>For example, before you configure EPM System products, you need to know whether you will deploy in a clustered environment. See:</p> <ul style="list-style-type: none"> ● Chapter 2, “Understanding EPM System Products” for information about EPM System product architecture ● Chapter 2, “Understanding EPM System Products” for information about platform support ● See the <i>Oracle Hyperion Enterprise Performance Management System Certification Matrix</i> (http://www.oracle.com/technology/products/bi/hyperion-supported-platforms.html) for information about system requirements ● <i>Oracle Hyperion Enterprise Performance Management System High Availability Guide</i> for information about deploying in a clustered environment 	
Ensure that the necessary hardware is available for your deployment architecture, and verify that the computers meet system requirements.	<p>For assistance in planning your deployment architecture, see Chapter 2, “Understanding EPM System Products.” For system requirements, see the <i>Oracle Hyperion Enterprise Performance Management System Certification Matrix</i> (http://www.oracle.com/technology/products/bi/hyperion-supported-platforms.html).</p>	
Prepare each server for the EPM System installation.	<ul style="list-style-type: none"> ● Update server software as needed. For example, ensure that required service packs, hotfixes, and so on are installed. ● Disable unnecessary services. 	
If you are clustering for load-balancing or failover, ensure that IT prepares the load balancer (hardware, software) or the failover mechanism.	<p>Ensure that the load balancer or failover mechanism is tested and ready before you start the installation. See the <i>Oracle Hyperion Enterprise Performance Management System High Availability Guide</i> for additional information.</p>	
Check network bandwidth and latency for distant sites.		
Synchronize server time.	<p>When servers are not time synchronized, authentication errors that result in user access problems can occur between the EPM System application servers.</p>	
Arrange backup functionality.	<p>After the installation, Oracle advises that you perform a full backup of all servers and databases. After the initial backup, include servers and databases in daily backup procedures. See the <i>Oracle Hyperion Enterprise Performance Management System Backup and Recovery Guide</i></p>	
Resolve potential firewall problems.	<p>For example, in some cases, Essbase Integration Services Console is used on a client computer that is outside the network firewall, and the console requires access to Integration Server and Essbase Server, which are located inside the network firewall. In these cases, you must log on to Essbase Server with a name that both the client system and Integration Server can use to communicate with Essbase Server.</p> <p>Problems arise when you attempt to log on using the external IP address of the computer running Essbase Server. Integration Server cannot use the external IP address to communicate with the computer running Essbase Server because both Essbase Server and Integration Server are inside the firewall. Administrators can solve this problem by defining an alias for the Essbase Server computer that is usable from both sides of the firewall.</p>	

Task	Comments	Check When Completed
Preparing databases		
<p>If necessary, install a database client and prepare a database for EPM System products that require a repository for relational storage.</p>	<ul style="list-style-type: none"> ● Make sure to install a supported version of the database software. See the <i>Oracle Hyperion Enterprise Performance Management System Certification Matrix</i> (http://www.oracle.com/technology/products/bi/hyperion-supported-platforms.html). ● Set up database client access from the servers to the database setup. ● Set up user accounts to access the database. ● If you are using an Oracle database, install the full database client and test the database client with the <code>TNSPing</code> command. <p>If the database is installed, perform a full backup.</p> <p>For additional information about preparing databases, see “Preparing a Database” on page 45.</p>	
Preparing the security infrastructure		
<p>Collect the information needed to configure external security user directories in Oracle Hyperion Shared Services Console.</p>	<p>See “Configuring User Directories” in the <i>Oracle Hyperion Enterprise Performance Management System Security Administration Guide</i>.</p> <p>Upgrade Note!</p> <p>If you are upgrading and want to support the movement of users and groups across Organizational Units (OUs), you must configure user directories in Shared Services to use a unique identity attribute to identify users and groups. See “Configuring User Directories” in the <i>Oracle Hyperion Enterprise Performance Management System Security Administration Guide</i>.</p>	
Prepare a user account	<p>Windows:</p> <ul style="list-style-type: none"> ● For each Windows server, prepare a user account with Local administrator rights. Install and configure as an administrator and as the same user for all EPM System products. ● Assign local policies if required by your product. For Windows, the user ID typically requires “Act as part of the OS, Bypass Traverse Checking, Log on as Service,, and Log-on as a batch job.” <p>UNIX</p> <ul style="list-style-type: none"> ● For UNIX systems, create a login to install, configure, and run EPM System products. The account that is used to install EPM System products must have Read, Write, and Execute permissions on <code>\$HYPERION_HOME</code>. <p>Oracle recommends that you do not install, configure, and run EPM System products using the <code>root</code> user.</p> <ul style="list-style-type: none"> ● For each UNIX server, prepare a user account (not the root). Install and configure as the same user for all EPM System products. ● If you are using Oracle Application Server, you must install and configure EPM System products using the same user you used to install Oracle Application Server. ● If you have installed any other Oracle products, the user that will be installing EPM System products must be part of the same group as the user who installed the other Oracle products. For example, both users must be part of <code>oinstall</code>. If you are upgrading EPM System products, follow this requirement even if you used multiple users to install components in previous releases. 	

Task	Comments	Check When Completed
Create domain accounts.	<ul style="list-style-type: none"> ● DCOM account, if required for your product (for example, hypdcom) – domain user or system account with local Administrator rights ● Hyperion administrator (for example, hypadmin) – domain user account 	
Obtain an account for external authentication with access to the user directory.	<ul style="list-style-type: none"> ● Create a login (which can be a service account) with Browse privileges for the user directory. ● Ensure that the service account name does not include special characters. ● Ensure that the service account's Distinguished Name (DN) can access the user directory. ● Note the user directory port. ● Be familiar with the name of a Primary Domain Controller that can access MSAD (if applicable). ● Ensure that the server can communicate with the user directory. <p>See the <i>Oracle Hyperion Enterprise Performance Management System Security Administration Guide</i>.</p>	
If you are using secure communication, ensure availability of SSL certificates for all components.	<p>See the <i>Oracle Hyperion Enterprise Performance Management System SSL Configuration Guide</i>.</p> <p>Oracle recommends a secure sockets-capable server in a production environment, or where the local network is not protected by some other means (such as a firewall) or where public users are able to access the Web server.</p>	
Open firewall ports and if needed, fix dynamic ports.	See Chapter 6, “Ports.”	
If you are using the embedded Shared Services Native Directory (OpenLDAP), consider whether to provision by user or by group. If you provision by group, decide whether to use Native Directory groups or external authentication provider groups.	See the <i>Oracle Hyperion Enterprise Performance Management System Security Administration Guide</i> .	
Setting up Web application servers and Web servers		

Task	Comments	Check When Completed
Ensure that Web application servers are available for EPM System product deployment. The application server and the product that you are deploying must be installed on the same computer.	<ul style="list-style-type: none"> ● Make sure to install a supported version of the Web application server. See the <i>Oracle Hyperion Enterprise Performance Management System Certification Matrix</i> (http://www.oracle.com/technology/products/bi/hyperion-supported-platforms.html). ● To identify the products that require an application server, see “Architecture” on page 15 and to view the list of supported application servers, see http://www.oracle.com/technology/products/bi/hyperion-supported-platforms.html. ● A default product installation provides an Embedded Java Container. ● Ensure that you have obtained all required third-party licenses. ● For special considerations for each Web application server, see “Preparing Web Application Servers” on page 54. ● For UNIX, ensure that you have root access to the application server installation directory. (For WebSphere, you can set up security so that you can deploy without a root profile. See the WebSphere documentation for details.) 	
Install a Web server to use with the EPM System products that require a Web server.	<p>To identify the products that require a Web server, see “Architecture” on page 15. To view the list of supported Web servers, see http://www.oracle.com/technology/products/bi/hyperion-supported-platforms.html. For additional information about setting up a Web server, see “Preparing Web Servers” on page 56.</p> <p>A default installation provides a Web server for the Embedded Java Container.</p>	
If you are using software load balancing, in the Web server, prepare the load balancer plug-in to the Web application server.	See your load balancer documentation.	
Resolving ports		
Identify and resolve port conflicts.	Review the list of EPM System product default ports in Chapter 6, “Ports.”	
Preparing for product configuration		
Collect the information needed to configure products after installation.	See “Configuring EPM System Products” in the <i>Oracle Hyperion Enterprise Performance Management System Installation and Configuration Guide</i>	
Review your license agreement to confirm which products you have purchased and are licensed to use.	During configuration, based on your license agreement, activate or deactivate features. See “License Compliance” in the <i>Oracle Hyperion Enterprise Performance Management System Installation and Configuration Guide</i> .	

Product-Specific Installation Planning

The following table describes additional planning required for specific EPM System products.

Table 4 Additional Pre-Installation Planning Checklist

Task	Comments	Check When Completed
Prepare the Production Reporting Server	<p>A C compiler is required to relink the Production Reporting Server executables for all platforms except Sun Solaris. For the AIX platform, a C++ compiler is required. If you need an installed C++ compiler, you can download the required C++ components from the following locations.</p> <p>For AIX, go to:</p> <p>http://www-1.ibm.com/support/docview.wss?uid=swg24001174</p> <p>No changes to the Production Reporting Server linking scripts are required.</p>	
Prepare the runtime environment on AIX.	<p>Interactive Reporting, Financial Reporting, Web Analysis, and in some cases Essbase Server require an updated C++ runtime environment version on AIX 5L.</p> <p>To obtain the update:</p> <ul style="list-style-type: none">● Go to the IBM technical support website (https://techsupport.services.ibm.com/.)● Search for the PTF number (U489780) or the fileset (xlc.aix50.rte.6.0.0.7) and download the file	

4

Release Compatibility

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How to Read the Tables in This Chapter

To ensure that you obtain the correct information from the tables in this chapter, read down each column to identify the versions of EPM System products that are compatible with the product named in the column heading.

For example, Planning 11.1.1.4 is compatible with Essbase version 11.1.1.x only.

Note: The two tables for Smart View release compatibility in “[Foundation Services Compatibility Tables](#)” on page 33 are not formatted like the other tables in this chapter.

Foundation Services Release Compatibility

Foundation Services Compatibility Tables

Use the following tables to determine compatibility between Foundation Services components and other product components:

- “[Shared Services, EPM Workspace, and Performance Management Architect Compatibility](#)” on page 34
- “[Smart View Compatibility with Provider Services](#)” on page 35
- “[Smart View Compatibility with Independent Providers](#)” on page 35

Shared Services, EPM Workspace, and Performance Management Architect Compatibility

The following table describes the release compatibility between Foundation Services components and other product components.

Table 5 Shared Services, EPM Workspace, and Performance Management Architect Release Compatibility

	Shared Services 11.1.1.4¹	EPM Workspace 11.1.1.4²	Performance Management Architect 11.1.1.4	Calculation Manager 11.1.1.4
Essbase				
Compatible Essbase versions	11.1.1.x	NA	11.1.1..4	11.1.1.x
Compatible Administration Services versions	11.1.1.x	NA	NA	11.1.1.x
Compatible Provider Services versions ³	11.1.1.x	NA	NA	NA
Compatible Integration Services versions	NA	NA	NA	NA
Compatible Essbase Studio versions	11.1.1.x	NA	11.1.1.4	NA
Reporting and Analysis				
Compatible Financial Reporting versions	11.1.1.4	11.1.1.4	NA	NA
Compatible Production Reporting versions	11.1.1.4	11.1.1.4	NA	NA
Compatible Interactive Reporting versions	11.1.1.4	11.1.1.4	NA	NA
Compatible Web Analysis versions	11.1.1.4	11.1.1.4	NA	NA
Financial Performance Management Applications				
Compatible Planning versions	11.1.1.x	11.1.1.x	11.1.1.4	11.1.1.4
Compatible Financial Management versions	11.1.1.x	11.1.1.x	11.1.1.4	11.1.1.4
Compatible Performance Scorecard versions	11.1.1.x	11.1.1.x	NA	NA
Compatible Strategic Finance versions	11.1.1.x	NA	NA	NA
Compatible Profitability and Cost Management versions	11.1.1.x	11.1.1.x	11.1.1.4	NA

	Shared Services 11.1.1.4¹	EPM Workspace 11.1.1.4²	Performance Management Architect 11.1.1.4	Calculation Manager 11.1.1.4
Data Management				
Compatible Data Relationship Management versions	11.1.1.x	NA	All versions through flat files or interface tables	All versions through flat files or interface tables
Compatible FDM versions	11.1.1.x	NA	NA	NA
ERP Integrator	11.1.1.4	11.1.1.4	11.1.1.4	NA
Compatible Data Integration Management versions	11.1.1.x	NA	NA	NA

¹Some products do not support the Lifecycle Management feature of Shared Services. See the *Oracle Hyperion Enterprise Performance Management System Lifecycle Management Guide*

²EPM Workspace 11.1.1.4 is also compatible with Oracle BI EE and Oracle BI Publisher version 10.1.3.4.x.

³For the 9.2.x releases, Analytic Services Smart View Provider is supported.

Smart View Compatibility with Provider Services

The following table describes the release compatibility between Smart View and Provider Services.

Table 6 Smart View Compatibility with Provider Services and EPM System Products

Provider Services Version	Smart View Client Version	Supported Product Versions
Provider Services 11.1.1.4	11.1.1.4	Planning 11.1.1.x
		Essbase 11.1.1.x

Note: Smart Slice operations and Planning ad hoc operations are supported only when Provider Services Release 11.1.1.x is used.

Smart View Compatibility with Independent Providers

The following table describes the release compatibility between Smart View and independent providers.

Table 7 Smart View Compatibility with Independent Providers

Smart View Client Version	Supported Versions of Independent Providers	Notes
11.1.1.4	Financial Management 11.1.1.x	
11.1.1.4	Planning 11.1.1.x	<ul style="list-style-type: none"> Smart Slice operations and Planning ad hoc operations are supported only when Provider Services Release 11.1.1.x is used. See Table 6.

Smart View Client Version	Supported Versions of Independent Providers	Notes
11.1.1.4	Reporting and Analysis 11.1.1.x	

Note: Smart View 11.1.1.4 is also compatible with Oracle Crystal Ball Enterprise Performance Management.

Smart View 11.1.1.4 is also compatible with Oracle BI EE 10.1.3.4.x.

Essbase Release Compatibility

The following table describes the release compatibility between Essbase components and other product components.

Note: For Smart View compatibility, see [“Smart View Compatibility with Provider Services” on page 35](#).

Table 8 Essbase Release Compatibility

	Essbase 11.1.1.4 ¹	Administration Services 11.1.1.4	Integration Services 11.1.1.4	Provider Services 11.1.1.4	Essbase Studio 11.1.1.4 ²
Foundation Services					
Compatible Shared Services versions	11.1.1.4	11.1.1.4	NA	11.1.1.4	11.1.1.4
Compatible EPM Workspace versions	NA	NA	NA	NA	NA
Compatible Performance Management Architect versions	11.1.1.4	NA	NA	NA	11.1.1.4
Calculation Manager	11.1.1.x	11.1.1.x	NA	NA	11.1.1.4
Essbase					
Compatible Essbase versions	NA	11.1.1.x	11.1.1.x	11.1.1.x	11.1.1.x
Compatible Administration Services versions	11.1.1.x	NA	NA	11.1.1.x	11.1.1.x
Compatible Provider Services versions ³	11.1.1.x	11.1.1.x	11.1.1.x	NA	11.1.1.x
Compatible Integration Services versions	11.1.1.x	NA	NA	NA	11.1.1.x

	Essbase 11.1.1.4 1	Administration Services 11.1.1.4	Integration Services 11.1.1.4	Provider Services 11.1.1.4	Essbase Studio 11.1.1.4 2
Compatible Essbase Studio versions	11.1.1.x	11.1.1.x	11.1.1.x	11.1.1.x	NA
Reporting and Analysis					
Compatible Financial Reporting versions	11.1.1.4	NA	NA	NA	NA
Compatible Production Reporting versions	11.1.1.4	NA	NA	NA	NA
Compatible Interactive Reporting versions	11.1.1.4	NA	NA	NA	NA
Compatible Web Analysis versions	11.1.1.4	NA	NA	NA	11.1.1.4
Financial Performance Management Applications					
Compatible Planning versions	11.1.1.x	11.1.1.x Planning and Administration Services must be at the same release level in order for Business Rules to work properly.	NA	NA	NA
Compatible Financial Management versions	11.1.1.x	NA	NA	NA	NA
Compatible Performance Scorecard versions	11.1.1.x	NA	NA	NA	NA
Compatible Strategic Finance versions	11.1.1.x	NA	NA	NA	NA
Compatible Profitability and Cost Management versions	11.1.1.x	11.1.1.x	11.1.1.x	11.1.1.x	NA
Data Management					
Compatible Data Relationship Management versions	All versions through flat files or interface tables	NA	All versions through flat files or interface tables	NA	NA
Compatible FDM versions	11.1.1.x	NA	NA	NA	11.1.1.x
Compatible ERP Integrator versions	11.1.1.4	11.1.1.4	NA	11.1.1.4	NA

	Essbase 11.1.1.4 ¹	Administration Services 11.1.1.4	Integration Services 11.1.1.4	Provider Services 11.1.1.4	Essbase Studio 11.1.1.4 ²
Compatible Data Integration Management versions	11.1.1.x	NA	NA	NA	NA
Other Products					
Essbase Analytics Link	11.1.1.4	NA	NA	NA	NA

¹Essbase 11.1.1.4 can also use Oracle BI EE version 10.1.3.4.1 as a data source.

²Essbase Studio 11.1.1.4 can also use Oracle Business Intelligence Enterprise Edition version 10.1.3.4.1 as a data source.

³For the 9.2.x releases, Analytic Services Smart View Provider and Analytic High Availability Services are supported.

Reporting and Analysis Release Compatibility

The following table describes the release compatibility between Reporting and Analysis components and other product components.

For EPM Workspace compatibility information, see [“Foundation Services Release Compatibility” on page 33](#).

Table 9 Reporting and Analysis Release Compatibility

	Interactive Reporting 11.1.1.4 ¹	Financial Reporting 11.1.1.4	Production Reporting 11.1.1.4	Web Analysis 11.1.1.4
Foundation Services				
Compatible Shared Services versions ²	11.1.1.4	11.1.1.4	11.1.1.4	11.1.1.4
Compatible EPM Workspace versions	11.1.1.4	11.1.1.4	11.1.1.4	11.1.1.4
Compatible Performance Management Architect versions	NA	NA	NA	NA
Calculation Manager	NA	NA	NA	NA
Essbase				
Compatible Essbase versions	11.1.1.x	11.1.1.x	11.1.1.x	11.1.1.x
Compatible Administration Services versions	NA	NA	NA	NA
Compatible Provider Services versions ³	NA	11.1.1.x	NA	11.1.1.x
Compatible Integration Services versions	NA	11.1.1.x	11.1.1.x	11.1.1.x

	Interactive Reporting 11.1.1.4¹	Financial Reporting 11.1.1.4	Production Reporting 11.1.1.4	Web Analysis 11.1.1.4
Compatible Essbase Studio versions	11.1.1.x	11.1.1.x	11.1.1.x	11.1.1.x
Financial Performance Management Applications				
Compatible Planning versions	NA	11.1.1.x	NA	11.1.1.x
Compatible Financial Management versions	NA	11.1.1.x	NA	11.1.1.x
Compatible Performance Scorecard versions	NA	NA	NA	NA
Compatible Strategic Finance versions	NA	NA	NA	NA
Compatible Profitability and Cost Management versions	NA	11.1.1.x	NA	11.1.1.x
Data Management				
Compatible Data Relationship Management versions	NA	NA	NA	NA
Compatible FDM versions	NA	NA	NA	NA
Compatible ERP Integrator versions	NA	11.1.1.4 Note: For drill through functionality	NA	NA
Compatible Data Integration Management versions	NA	NA	NA	NA

¹Release compatibility among Interactive Reporting components is listed in [Table 10](#).

²Shared Services is not needed for standalone products.

³For the 9.2.x releases, Analytic High Availability Services is supported.

The following table describes the release compatibility between Interactive Reporting product components.

Table 10 Interactive Reporting Components Release Compatibility

	Interactive Reporting 11.1.1.4
Oracle Hyperion Impact Management Services – Impact of Change	11.1.1.x
Impact Management Services – Data Model Update	11.1.1.x
Oracle Hyperion Impact Management Services – JavaScript Update Kits	11.1.1.x
Dashboard Development Services – Dashboard Studio	11.1.1.x
Oracle Hyperion Dashboard Development Services – Dashboards, Templates, and Components	11.1.1.x

Financial Performance Management Applications Release Compatibility

The following table describes the release compatibility between Financial Performance Management Applications components and other product components.

Table 11 Financial Performance Management Applications Release Compatibility

	Planning 11.1.1.4¹	Financial Management 11.1.1.4	Performance Scorecard 11.1.1.4	Strategic Finance 11.1.1.4	Profitability and Cost Management 11.1.1.4
Foundation Services					
Compatible Shared Services versions	11.1.1.4	11.1.1.4	11.1.1.4	11.1.1.4	11.1.1.4
Compatible EPM Workspace versions	11.1.1.4	11.1.1.4	11.1.1.4	NA	11.1.1.4
Compatible Performance Management Architect versions	11.1.1.4	11.1.1.4	NA	NA	11.1.1.4
Calculation Manager	11.1.1.4	11.1.1.x	NA	NA	NA
Essbase					
Compatible Essbase versions	11.1.1.x	11.1.1.x	11.1.1.x	11.1.1.x	11.1.1.x
Compatible Administration Services versions	11.1.1.x Planning and Administration Services must be at the same release level in order for Oracle Hyperion Business Rules to work properly.	11.1.1.x	NA	NA	11.1.1.x
Compatible Provider Services versions	NA	NA	NA	NA	11.1.1.x
Compatible Integration Services versions	NA	NA	NA	NA	11.1.1.x
Compatible Essbase Studio versions	NA	NA	NA	NA	NA
Reporting and Analysis					
Compatible Financial Reporting versions	11.1.1.4	11.1.1.4	NA	NA	11.1.1.4

	Planning 11.1.1.4¹	Financial Management 11.1.1.4	Performance Scorecard 11.1.1.4	Strategic Finance 11.1.1.4	Profitability and Cost Management 11.1.1.4
Compatible Oracle Hyperion SQR Production Reporting versions	NA	NA	NA	NA	NA
Compatible Interactive Reporting versions	NA	NA	Through IR Smartcuts	NA	NA
Compatible Web Analysis versions	11.1.1.4	11.1.1.4	Through Extended Analytics	NA	11.1.1.4
Financial Performance Management Applications					
Compatible Planning versions	NA	11.1.1.x	NA	The version deployed with Essbase	NA
Compatible Financial Management versions	11.1.1.x	NA	11.1.1.x	11.1.1.x	NA
Compatible Performance Scorecard versions	NA	11.1.1.x	NA	NA	NA
Compatible Strategic Finance versions	The version deployed with Essbase	11.1.1.x	NA	NA	NA
Compatible Profitability and Cost Management versions	NA	NA	NA	NA	NA
Data Management					
Compatible Data Relationship Management versions	All versions through flat files	All versions through flat files	NA	NA	NA
Compatible FDM versions	The version deployed with Essbase	11.1.1.x	NA	11.1.1.x	NA
Compatible ERP Integrator versions	11.1.1.4	11.1.1.4	NA	NA	NA
Compatible Data Integration Management versions	11.1.1.x	11.1.1.x	11.1.1.x	NA	NA
Other Products					
Essbase Analytics Link	NA	11.1.1.4	NA	NA	NA

¹Includes Oracle Hyperion Workforce Planning and Capital Expense Planning

Data Management Release Compatibility

The following table describes the release compatibility between Data Management components and other product components.

Table 12 Data Management Release Compatibility

	Data Relationship Management 11.1.1.4	FDM 11.1.1.4¹	ERP Integrator 11.1.1.4	Oracle Hyperion Data Integration Management 11.1.1.4
Foundation Services				
Compatible Shared Services versions	11.1.1.4	11.1.1.4	11.1.1.4	NA
Compatible EPM Workspace versions	NA	NA	11.1.1.4	NA
Compatible Oracle Hyperion Smart View for Office versions	NA	11.1.1.4	11.1.1.4	NA
Compatible Performance Management Architect versions	All versions via flat files or interface tables	NA	11.1.1.4	NA
Calculation Manager	All versions via flat files or interface tables	NA	NA	NA
Essbase				
Compatible Essbase versions	All versions through flat files	11.1.1.x	11.1.1.4	11.1.1.x
Compatible Administration Services versions	All versions through flat files or interface tables	NA	11.1.1.4	NA
Compatible Provider Services versions	NA	NA	11.1.1.4	NA
Compatible Integration Services versions	All versions through flat files or interface tables	NA	NA	NA
Compatible Essbase Studio versions	NA	11.1.1.x	NA	NA
Financial Performance Management Applications				
Compatible Planning versions	All versions through flat files	The version deployed with Essbase	11.1.1.4	11.1.1.x
Compatible Financial Management versions	All versions through flat files	11.1.1.x	11.1.1.4	11.1.1.x
Compatible Performance Scorecard versions	NA	NA	NA	11.1.1.x

	Data Relationship Management 11.1.1.4	FDM 11.1.1.4 ₁	ERP Integrator 11.1.1.4	Oracle Hyperion Data Integration Management 11.1.1.4
Compatible Strategic Finance versions	NA	11.1.1.x	NA	NA
Compatible Profitability and Cost Management versions	NA	NA	NA	NA
Other Products				
Compatible Oracle Data Integrator (ODI) version	NA	NA	10.1.3.6	NA

¹If using drill-back, the version of FDM must match the version of the product.

5

Preparing Your Environment

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Preparing a Database

Before you install and configure most EPM System products, you must create a database using a supported RDBMS (Oracle Database, Microsoft SQL Server, or IBM DB2).

For ease of deployment and simplicity, you can use one database repository for all products (with the exceptions noted below). When you configure multiple products at one time using Oracle Hyperion Enterprise Performance Management System Configurator, one database is configured for all selected products.

Caution! To use a different database for each product, perform the “Configure Database” task separately for each product. In some cases you might want to configure separate databases for products. Consider performance, roll-back procedures for a single application or product, and disaster recovery plans.

The following products and product components require unique databases:

- Performance Management Architect interface data source.
- Extended Analytics for Financial Management and Extended Analytics for Strategic Finance.
- Planning. Each Planning application should have its own repository.
- Performance Scorecard.
- FDM. Use an Oracle Database instance exclusively for FDM.

For information about the FDM database, see the *Oracle Hyperion Financial Data Quality Management DBA Guide*.

- Data Relationship Management. See the *Oracle Hyperion Data Relationship Management Installation Guide*.

Note: EPM System products require use of a Java Database Connectivity (JDBC) driver for Oracle, SQL, and DB2. Oracle provides the Hyperion JDBC driver at no cost.

Upgrade Note!

If you are upgrading from a previous release of EPM System products, use the same database or databases that you used in the previous release.

Using an Oracle Database

Oracle Database Installation Information

- Install Oracle Database full client on the following machines:
 - Performance Management Architect Dimension server
 - Financial Management application server
 - Data Relationship Management server
 - FDM
- If your database resides on a remote computer, create a Net Service Name that enables the product to connect to the remote database.
- Use the global database server name when specifying locations and paths. Do not use `localhost` as a server name.

Oracle Database Creation Considerations

For the best compatibility with non-ASCII character sets, the database **must** be created using Unicode Transformation Format UTF-8 encoding (character set). Use of UTF-8 is **required** if you need multi-lingual support (multi character set support). Oracle supports the following character sets with UTF-8 encoding:

- AL32UTF8 (UTF-8 encoding for ASCII platforms)
- UTF8 (backward compatible encoding for Oracle)
- UTFE (UTF-8 encoding for EBCDIC platforms)

Oracle Database Roles and Privileges

Oracle Database user IDs should have the following roles and privileges:

- CREATE SESSION
- CREATE VIEW
- RESOURCE

Note: The Resource role should be granted as Default. For example, `ALTER USER oracle_schema_user DEFAULT ROLE "RESOURCE"`.

Required Oracle Database Account (FDM only)

The default tablespace used by FDM is the `Users` tablespace. To ensure that users do not exceed a space-used threshold or if you have questions about the appropriate value for the quota, consult with your database administrator.

Oracle recommends that FDM has its own Oracle Database instance.

Oracle recommends that you review the *Oracle Hyperion Financial Data Quality Management DBA Guide* prior to creating the database instance.

Oracle Database Sizing Guidelines

Oracle recommends that you set tablespaces with autoextend on.

The following table describes the Oracle Database sizing guidelines.

Product	Sizing Guideline
Shared Services	Start with 100MB, and add more as the number of migrations with Lifecycle Management and the number of audit records increases.
EPM Workspace	The amount of space needed depends on the aggregate size of the objects that you plan to store in the repository. Oracle recommends starting with at least 250 MB, which provides space to expand the EPM Workspace repository without having to increase the data file or tablespace. A shared pool size of 60 MB is used during configuration with EPM System Configurator.
Performance Management Architect	Oracle recommends starting with at least 250MB.
Administration Services	The amount of space needed depends on the metadata created; Oracle recommends starting with at least 32 MB.
Essbase Studio	The amount of space needed depends on the metadata created; Oracle recommends starting with at least 32 MB.
Planning and Calculation Manager	<ul style="list-style-type: none">100 MB for applications with 5,000 or fewer total members200 MB for applications with 15,000 or fewer total members Note: You can adjust the size of the system table database to match the size of the application.
Financial Management and Calculation Manager	<ul style="list-style-type: none">100 MB for applications with 5,000 or fewer total members200 MB for applications with 15,000 or fewer total members Note: You can adjust the size of the system table database to match the size of the application.
Performance Scorecard	500 MB
Profitability and Cost Management	100 MB

Product	Sizing Guideline
FDM	See the <i>Oracle Hyperion Financial Data Quality Management DBA Guide</i> .

Oracle Database Configuration Considerations

Tablespace Considerations

The following table describes the Oracle Database tablespace considerations.

Product	Tablespace Considerations
General – All products	<ul style="list-style-type: none"> Consider a global view of tablespaces and allocate one or more tablespaces in order to spread out tables created by EPM System products. Tablespaces can be shared with other applications. Create a separate tablespace for indexes to improve performance. This action requires CREATE TABLESPACE system privileges. Make sure that <code>SEGMENT SPACE MANAGEMENT</code> parameter is set to <code>AUTO</code> when you create tablespace. This parameter is needed for better performance.
Reporting and Analysis	Dedicate a tablespace to Reporting and Analysis. Determine the tablespaces to be used as the default tablespace and the temporary tablespace for this user. Do not use the SYSTEM tablespace.
Financial Management	Set up a temporary tablespace greater than 1GB.
FDM	See the <i>Oracle Hyperion Financial Data Quality Management DBA Guide</i> .
Data Relationship Management	<ul style="list-style-type: none"> Set the initial tablespace size 1 GB Extents at 500MB Turn Auto Extend ON

Other Parameters

The following table describes other Oracle Database parameters.

Product	Other Parameters
General/All Products	Set the <code>nls_length_semantics</code> parameter to <code>char</code> : <code>nls_length_semantics=char</code>
Planning	Planning requires that <code>CURSOR_SHARING</code> in Oracle be set to the default setting, "EXACT." If you have performance issues with Planning cube refresh, check this setting to be sure that it is set to "EXACT."
Financial Management	Set Oracle <code>OPEN_CURSORS</code> to 5000.
Performance Scorecard	Set Oracle <code>OPEN_CURSORS</code> to 1500 or higher.
FDM	See the <i>Oracle Hyperion Financial Data Quality Management DBA Guide</i> .

Operating System Configuration for Oracle Database

For Reporting and Analysis, set the necessary environment variables:

- (UNIX/Linux)
 - ORACLE_HOME
 - PATH
 - (Solaris/Linux) LD_LIBRARY_PATH
 - (AIX) LIBPATH
 - (HP) SHLIB_PATH

Using a Microsoft SQL Server Database

Microsoft SQL Server Database Creation Considerations

When you set the security properties for the database, select the following Authentication option: SQL Server and Windows.

Microsoft SQL Server Roles and Privileges

Database users must be assigned ownership of the database, which provides DB_OWNER privileges, and BULK_INSERT.

Note: For FDM, Windows accounts that run MSSQL Server Windows service must have read access to the FDM Data folder.

Microsoft SQL Server Sizing Guidelines

The following table describes the Microsoft SQL Server sizing guidelines.

Product	Sizing Guideline
Shared Services	Start with 100MB, and add more as the number of migrations with Lifecycle Management and the number of audit records increases.
EPM Workspace	The amount of space needed depends on the aggregate size of the objects that you plan to store in the repository. Oracle recommends starting with at least 250 MB, which provides space to expand the EPM Workspace repository without having to increase the data file or tablespace. A shared pool size of 60 MB is used during configuration with EPM System Configurator.
Performance Management Architect	Oracle recommends starting with at least 250MB.
Administration Services	The amount of space needed depends on the metadata created; Oracle recommends starting with at least 32 MB.

Product	Sizing Guideline
Essbase Studio	The amount of space needed depends on the metadata created; Oracle recommends starting with at least 32 MB.
Planning and Calculation Manager	<ul style="list-style-type: none"> 100 MB for applications with 5,000 or fewer total members 200 MB for applications with 15,000 or fewer total members <p>Note: You can adjust the size of the system table database to match the size of the application.</p>
Financial Management and Calculation Manager	<ul style="list-style-type: none"> 100 MB for applications with 5,000 or fewer total members 200 MB for applications with 15,000 or fewer total members <p>Note: You can adjust the size of the system table database to match the size of the application.</p>
Performance Scorecard	500 MB
Profitability and Cost Management	100 MB
FDM	See the <i>Oracle Hyperion Financial Data Quality Management DBA Guide</i> .

Microsoft SQL Server Database Configuration Considerations

The following table describes the Microsoft SQL Server tablespace considerations.

Product	Tablespace Considerations
Data Relationship Management	<ul style="list-style-type: none"> Set the initial filesize at 1GB Turn on Auto Growth and set at 10%

Using an IBM DB2 Database

IBM DB2 Installation Information

During IBM DB2 installation, consider the following:

- When installing IBM DB2, clear the OLAP Starter Kit option.
- For Performance Management Architect, ensure that your DB2 database is installed on a different computer, and not the Dimension Server machine where the DB2 9 Runtime Client and DB2 .NET Data Provider must be installed.

Note: If DB2 9 Runtime Client is installed on the Performance Management Architect computer, verify that an entry exists in the Global Assembly Cache.

- If you use an IBM DB2 database for Financial Management, DB2 Runtime Client and DB2 .NET Data Provider must be installed on the same machine as the Financial Management Application Server.

- For Reporting and Analysis, ensure that the IBM DB2 Client Application Enabler is installed on the computers on which you install services. For Core Services and Job Factory Service, if you use an IBM DB2 RDBMS and Reporting and Analysis Services are on separate machines, use the Client Application Enabler to create a client connection to the Reporting and Analysis database.

IBM DB2 Database Creation Considerations

For the best compatibility with non-ASCII character sets, an IBM DB2 database must be created using Unicode Transformation Format UTF-8 encoding (character set). Use of UTF-8 is required if you need multi-lingual support (multi-character set support).

Note: Performance Management Architect and Interface Table Data Source databases must be set up with a UTF-8 character set.

Use the Client Configuration Assistant to set up a database alias that enables the EPM System product to connect to the database. Be sure to select “Register this Database for ODBC and As a System Data Source.”

IBM DB2 Roles and Privileges

Database users must be assigned the following privileges:

- CREATETAB
- BINDADD
- CONNECT

IBM DB2 Sizing Guidelines

The following table describes the IBM DB2 sizing guidelines.

Product	Sizing Guideline
Shared Services	Start with 100MB, and add more as the number of migrations with Lifecycle Management and the number of audit records increases.
EPM Workspace	The amount of space needed depends on the aggregate size of the objects that you plan to store in the repository. Oracle recommends starting with at least 250 MB, which provides space to expand the EPM Workspace repository without having to increase the data file or tablespace. A shared pool size of 60 MB is used during configuration with EPM System Configurator.
Performance Management Architect	Oracle recommends starting with at least 250MB.
Administration Services	The amount of space needed depends on the metadata created; Oracle recommends starting with at least 32 MB.

Product	Sizing Guideline
Essbase Studio	The amount of space needed depends on the metadata created; Oracle recommends starting with at least 32 MB.
Planning and Calculation Manager	<ul style="list-style-type: none"> 100 MB for applications with 5,000 or fewer total members 200 MB for applications with 15,000 or fewer total members <p>Note: You can adjust the size of the system table database to match the size of the application.</p>
Financial Management and Calculation Manager	<ul style="list-style-type: none"> 100 MB for applications with 5,000 or fewer total members 200 MB for applications with 15,000 or fewer total members <p>Note: You can adjust the size of the system table database to match the size of the application.</p>
Performance Scorecard	500 MB

IBM DB2 Database Configuration Considerations

The following table describes the IBM DB2 database configuration considerations.

Product	Tablespace Considerations
General — All products	<p>Minimum tablespace requirements:</p> <ul style="list-style-type: none"> A bufferpool and a tablespace with a 32 KB pagesize A system temporary bufferpool and a system temporary tablespace with a 32 KB pagesize <p>Note: The default tablespace for the database user that owns the repository must not be partitioned.</p> <p>Increase settings as follows:</p> <ul style="list-style-type: none"> <code>bufferpool_name</code> bufferpool from 1000 (default) to 32000 (about the size of the largest audit table and indexes) <code>IBMDEFAULTBP</code> bufferpool from 1000 (default) to 100000 <code>tmp_bufferpool_name</code> bufferpool from 1000 (default) to 8000 (temporary space bufferpool) <code>DBHEAP</code> from 1200 (default) to 33000 <code>SORTHEAP</code> from 256 (default) to 2000 <code>LOGBFSIZ</code> from 16 (default) to 128
Shared Services and Essbase Studio	<ul style="list-style-type: none"> Increase the heap size as follows: <ul style="list-style-type: none"> <code>drda_heap_sz</code> parameter — 2048 or higher <code>stmtheap</code>, <code>applheapsz</code>, and <code>app_ctl_heap_sz</code> parameters — 8096 Increase <code>PAGESIZE</code> to 32K. Increase <code>bufferpool</code> to 32768.
Performance Management Architect	<ul style="list-style-type: none"> Increase the heap size as follows: <ul style="list-style-type: none"> <code>APP_CTL_HEAP_SZ</code> to 8096 <code>APPLHEAPSZ</code> to 8192 Ensure that the user has privileges to create tablespaces and buffer pools. Ensure that the user has been granted the right to use the temporary tablespace.

Product	Tablespace Considerations
Planning	<p>Before you upgrade to Planning, you must configure the database with a large enough tablespace (having a page size of at least 32K) in order to support the Planning tables.</p> <p>The following sample SQL script creates the necessary buffer pool and tablespace. Change the names and the disk location to reflect your needs. By default, the tablespace is named <i>HSPSPACE8_1</i> and is created in the C:\DB2DATA\HSPSPACE8_1 directory. The other settings are also defaults; the administrator should adjust the settings as appropriate for the environment.</p> <p>Example:</p> <pre>CREATE BUFFERPOOL hspool8_1 SIZE 250 PAGESIZE 32 K; CREATE REGULAR TABLESPACE hspspace8_1 PAGESIZE 32 K MANAGED BY SYSTEM USING ('c:\db2data\hspspace8_1') EXTENTSIZE 32 OVERHEAD 24.1 PREFETCHSIZE 8 TRANSFERRATE 0.9 BUFFERPOOL HSPPOOL8_1;</pre> <p>The database administrator must make sure that the user who logs on to the Planning relational database has rights to use the new tablespace.</p>

Performance Scorecard–Specific IBM DB2 Database Configuration Requirements

You must complete the following procedure before you configure Performance Scorecard.

► To prepare the IBM DB2 server:

- 1 Increase the database log size to 6500.
- 2 Modify this script with information specific to your database:

```
SET HPSDB=<hpsdatabase>
SET ADMIN=<adminusername>
SET ADMINPWD=<adminpassword>
SET TBSFILE=<table space file location>
SET TMPFILE=<temp file location>
DB2 CONNECT TO %HPSDB% USER %ADMIN% USING %ADMINPWD%
DB2 UPDATE DATABASE CONFIGURATION FOR %HPSDB% USING APPLHEAPSZ 512
DB2 CREATE BUFFERPOOL HPS_BP SIZE 250 PAGESIZE 32 K
DB2 TERMINATE
DB2STOP
DB2START
DB2 CONNECT TO %HPSDB% USER %ADMIN% USING %ADMINPWD%
DB2 CREATE REGULAR TABLESPACE HPS_SPACE1 PAGESIZE 32 K MANAGED BY SYSTEM USING
('%TBSFILE%') EXTENTSIZE 32 OVERHEAD 24.1 PREFETCHSIZE 32 TRANSFERRATE 0.9
BUFFERPOOL HPS_BP
DB2 COMMENT ON TABLESPACE HPS_SPACE1 IS 'HPS Table Space'
DB2 GRANT USE OF TABLESPACE HPS_SPACE1 TO PUBLIC
DB2 CREATE SYSTEM TEMPORARY TABLESPACE HPS_TEMP PAGESIZE 32 K MANAGED BY SYSTEM
USING ('%TMPFILE%') EXTENTSIZE 32 OVERHEAD 24.1 PREFETCHSIZE 32 TRANSFERRATE 0.9
BUFFERPOOL HPS_BP DB2 COMMENT ON TABLESPACE HPS_TEMP IS 'HPS Temporary Table Space'
DB2 TERMINATE
DB2STOP
```

DB2

- 3 Save the file as `name.bat`.
- 4 From the Command Center, execute the script.
- 5 **Windows 2003 users:** Perform these steps:
 - a. Select **Control Panel**, then **Computer Management**, and then **Users and Groups**.
 - b. On the **User Accounts** box, click **Advanced**.
 - c. Select **DB2Admin**, right-click and select **Properties**.
 - d. On the **Properties** box, select **Member Of**.
 - e. Select **Users**, click **Remove**, and click **Save**.

Preparing Web Application Servers

Many EPM System products require a Web application server. To identify the products that require an application server, see “Architecture” on page 15. To view the list of supported application servers, see the *Oracle Hyperion Enterprise Performance Management System Certification Matrix* (<http://www.oracle.com/technology/products/bi/hyperion-supported-platforms.html>).

EPM Workspace and the application being integrated must be deployed to the same Web application server type. For example, if EPM Workspace is deployed to Oracle WebLogic Server, Performance Management Architect must also be deployed to WebLogic Server.

General Considerations

- When deploying to an application server, EPM System products cannot be installed to directories with names that contain spaces; for example, `c:\Program Files` is not acceptable (unless you use short path notation).
- For automatic deployment, the Web server must reside on the same machine where EPM Workspace will be deployed.
- If different operating system (OS) accounts are used to install and run EPM System and your Web application server, the Web application server OS account must be granted:
 - Read access to the Hyperion home directory, and to all subdirectories and files therein
 - Write access to `HYPERION_HOME/logs`

In addition, when you use automatic deployment, the EPM System OS account must be granted write access to the application server files and directories.

- Set all Web applications to have a session timeout that exceeds 10 minutes.

Oracle Application Server

Ensure that you have root access to the application server installation directory on AIX systems.

On UNIX systems, you must install and configure EPM System products using the same user you used to install Oracle Application Server.

When EPM System components will be deployed to Oracle Application Server in a distributed environment, all of the Oracle Application Server instances must:

- Reside in the same cluster topology
- Use a single instance of the Application Server Control (the Administration OC4J instance) to manage all the instances in the cluster
- Use a supported Web server to route requests to the J2EE containers (OC4J instances)

Note: For this release of EPM System, only Oracle HTTP Server (OHS) is supported for automatic deployment, and it must reside on the same machine where EPM Workspace will be deployed. For other Web servers, you must use manual deployment. For more information, refer to "Configuring Cluster Topologies" in the *Oracle® Application Server Administrator's Guide*.

During configuration with EPM System Configurator, for the Web application server deployment task, use the Advanced Set up feature to configure access using a logical address. See "Application Server Deployment: Oracle AS" in the *Oracle Hyperion Enterprise Performance Management System Installation and Configuration Guide* and the *Oracle Hyperion Enterprise Performance Management System Manual Deployment Guide*.

Note: The Planning logical address is defined using the "Manage Planning Clusters" task in EPM System Configurator.

Embedded Java Container

- Oracle provides the Embedded Java Container, which is provided on the installation media for use with the deployment of EPM System products. Oracle does not support the Embedded Java Container application server for use outside EPM System product installations.
- For automatic deployment, the Web server must reside on the same machine where EPM Workspace will be deployed.

WebLogic Server

- If the WebLogic Server installation path contains spaces, EPM System products cannot deploy to WebLogic Server. Ensure that the installation path includes no spaces.
- Before installing EPM System products, if you are upgrading from WebLogic Server 9.1 to WebLogic Server 9.2.x, you must follow the BEA procedure to migrate application environments: <http://edocs.bea.com/common/docs92/upgrade/upgrading9091.html>. Perform this procedure on the domain in the `HYPERION_HOME/deployments/` WebLogic9 directory.

- For automatic deployment, the Web server must reside on the same machine where EPM Workspace will be deployed.
- When you install WebLogic Server, make sure to install the plugins (an optional component of the installation), which are required for Reporting and Analysis.
- When deploying all EPM System products to Oracle WebLogic Server on one machine, 6 GB of RAM is recommended.
- When Lifecycle Management is running and processing a large number of requests, you may need to increase the size of WebLogic's `Accept Backlog` parameter. This parameter allows you to tune the number of connection requests that a WebLogic Server instance will accept before refusing additional requests. See the WebLogic documentation for more information on this parameter. This is required only for Shared Services.

IBM WebSphere

- On UNIX platforms, the user account that installs and configures the EPM System product being deployed must have permission to create a WebSphere profile. Refer to the IBM InfoCenter for detailed instructions on granting permission to create a WebSphere profile as a non-root user.
- If the WebSphere installation path contains spaces, EPM System products cannot deploy to WebSphere. The default WebSphere installation path for Windows is `Program Files/IBM/WebSphere`. Change the installation path so that no spaces are included.
- For automatic deployment, the Web server must reside on the same machine where EPM Workspace will be deployed.
- Install the plugins from the IBM WebSphere 6.1.x supplemental components CD. They are required for Reporting and Analysis.
- When you are installing WebSphere, do not install the Web Services Gateway component of the WebSphere Application Server Network Deployment. The Web Services Gateway component expects messages in SOAP 1.1 format; however, EPM System generates messages in SOAP 1.0 format.
- If you are upgrading EPM System products from Release 9.3.x, and you are also upgrading from WebSphere 6.0.x to WebSphere 6.1.x, you must migrate application environments after you install EPM System products and before you configure them with EPM System Configurator. See “Upgrade Configuration Prerequisites” in the *Oracle Hyperion Enterprise Performance Management System Installation and Configuration Guide*.

Preparing Web Servers

To view the list of supported Web servers, see the *Oracle Hyperion Enterprise Performance Management System Certification Matrix* (<http://www.oracle.com/technology/products/bi/hyperion-supported-platforms.html>.)

For automatic deployment, the Web server must reside on the same machine where EPM Workspace will be deployed.

For additional information about configuring Web servers with EPM System products, see “Configuring Web Server Routing” in the *Oracle Hyperion Enterprise Performance Management System Manual Deployment Guide*.

Oracle HTTP Server

If you are using Oracle HTTP Server (OHS) as the Web server, increase the `ThreadsPerChild` parameter from the default value of 50 to 512 in the OHS Web Server configuration file (`httpd.conf`).

Microsoft Internet Information Services

The following products require IIS to be installed with ASP .NET support enabled before configuration of the EPM System product:

- Performance Management Architect Service (Dimension Server)
- Financial Management
- Strategic Finance
- FDM
- Data Relationship Management

Notes about IIS:

- If .NET is not detected, the installation program will install it.
- If you are using Windows 2008, you must install ASP Role Services before installing EPM System products that require IIS. If you are using Windows 2008, you must install .NET 3.5 before installation of Data Relationship Management.
- If IIS is chosen as the Web server during configuration, you must allow all unknown ISAPI extensions via the Internet Information Services Manager.

Verifying the IIS Installation

To verify the IIS installation, ensure that the IIS services are running:

- **IIS Admin Service**
- **World Wide Web Publishing Service**

If you do not see the services for IIS, make sure that IIS is installed.

Enabling Existing .NET 2.0 Framework (Windows 2003)

Performance Management Architect requires .NET 2.0 Framework on the machine where you install the Dimension server. If .NET 2.0 Framework is not installed on your machine, Oracle Hyperion Enterprise Performance Management System Installer automatically installs it for you.

If you are using Windows 2003 and .NET 2.0 is installed, you must register and enable .NET 2.0 with IIS.

► To enable .NET 2.0 on Windows 2003 machines:

- 1 Open IIS Manager.
- 2 In the left pane, select **Web Service Extensions**.
- 3 If ASP.NET 2.0 is listed in the right pane, enable it by ensuring that the **Status** column is set to **Allowed**.
- 4 If ASP.NET 2.0 is not listed in the right pane and .NET 2.0 is installed, register .NET 2.0 with IIS:
 - a. From the command prompt, go to this directory: `C:\Windows\Microsoft.NET\Framework\v2.0.50727`
 - b. Enter `aspnet_regiis.exe -iru`.
 - c. Repeat steps 1, 2, and 3.

32-Bit/64-Bit Microsoft IIS 6.0 Support

Microsoft IIS 6.0 can be configured to support either 32-bit application runtimes or 64-bit application runtimes on 64-bit operating systems. Microsoft IIS 6.0 cannot be configured to support both simultaneously. Therefore, in general, when installing and configuring EPM System products with Microsoft IIS 6.0, install 32-bit runtimes and 64-bit runtimes for EPM System Web tier components on different computers.

Specifically FDM (32-bit) and Strategic Finance (32-bit) cannot be deployed on the same computer where Financial Management (64-bit) and Performance Management Architect (64-bit) are deployed. On 32-bit platforms, all EPM System products can co-exist.

Financial Management Web Server Environment

For Apache Web server, for synchronous load requests in Financial Management that take over 5 minutes to respond, avoid a timeout by setting `ProxyTimeout` to the IIS request timeout (3600s).

Preparing Web Browsers

Browser Settings

Ensure that browser preferences and options are enabled as follows:

- For Internet Explorer and Mozilla Firefox:
 - Enable JavaScript.

- Enable cookies. The preferred setting is to allow cookies to be stored on your computer. The minimum requirement is to allow per-session level cookies.
- Allow pop-up windows.
- For Internet Explorer (Reporting and Analysis only):
 - Enable ActiveX. See [“Enabling ActiveX \(Reporting and Analysis\)” on page 59](#).
 - Add the Reporting and Analysis Web site to the trusted zone. For example, in Internet Explorer, select **Tools**, then **Internet Options**, then **Security Tab**, and then **Trusted Sites**, and then click **Sites**.

Enabling ActiveX (Reporting and Analysis)

To enable EPM System Web applications to function properly, Internet Explorer must be configured to enable support for ActiveX technologies.

EPM System products do not download ActiveX components to the browser. Instead, only HTML, JavaScript, and XML are sent to and by the client browser.

Guidelines to enable XML components:

- In the Web browser security settings, enable ActiveX controls and plug-in execution by setting **“Run ActiveX controls and plug-ins”** to **“Enable.”**
- Enable ActiveX controls and plug-in execution by adding the Project Reporting and Analysis site as a trusted site and changing the custom security settings for trusted sites.
- Provide group policies that define the controls required for handling XML (the MS XML parser and XMLHttpRequest controls) and enable these administrator approved controls for all sites or for select trusted sites.
- All other ActiveX controls and plug-ins remain disabled. Group policies can be implemented by zone by enabling the controls for sites in the trusted zone.
- For Active X enabled controls, enable the setting **“Script ActiveX controls marked safe for scripting.”**

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Default Ports and Shared Services Registry

During the configuration process, default port numbers for most EPM System products are automatically populated in Oracle Hyperion Shared Services Registry. During configuration, using EPM System Configurator, you can change the default numbers. Each port number on the machine must be unique. (The same product on different machines can have the same port number.) If an error message similar to “port already in use” or “bind error” is displayed, a port number conflict may exist.

If the default port is already in use on the machine or if there is a conflict, EPM System Configurator will not continue. If the default port number is not changed, the software is configured with the default values.

Upgrade Note!

When upgrading products, the port number used in the earlier release is retained in Shared Services Registry. For example, the default listen port for the Shared Services web application in releases prior to 11.1.1.x was 58080 and is now 28080; however, after upgrading Shared Services to 11.1.1.x, the old port number of 58080 is retained in Shared Services Registry.

Changing Application Server or Web Server Ports

If you change a port number by using application server or web server tools (administration console or configuration file), you must also change the port number by using EPM System Configurator so that the port numbers are synchronized with the Shared Services Registry. After changing a port number by using the application server or web server tools, run EPM System

Configurator and provide the new port number to update the Oracle Hyperion Shared Services Registry.

Note: When using Oracle Application Server, web applications are accessed through the Oracle HTTP Server port (default is 7777).

SSL Ports

For more information about configuring SSL ports, see *Oracle Hyperion Enterprise Performance Management System SSL Configuration Guide*.

Foundation Services Ports

See these sections for information about Oracle Hyperion Foundation Services ports:

- [“Shared Services Ports” on page 62](#)
- [“EPM Workspace Ports” on page 64](#)
- [“Configuration and Monitoring Console Ports” on page 65](#)
- [“Performance Management Architect Ports” on page 66](#)
- [“Calculation Manager Web Application Ports” on page 68](#)

Shared Services Ports

The following table describes the Shared Services Web application ports and where you can configure them.

Table 13 Shared Services Web Application Ports

Port Type	Default Port Number	Where Configurable
Listen port	28080	EPM System Configurator
SSL listen port	28443	EPM System Configurator
Shutdown Port for embedded Java container	28081	<code>HYPERION_HOME/deployments/AppServNameAndVersion/SharedServices9/conf/server.xml</code> For parameters, see the application server documentation.
AJP connector port for embedded Java container	28082	<code>HYPERION_HOME/deployments/AppServNameAndVersion/SharedServices9/conf/server.xml</code> For parameters, see the application server documentation.

The following table describes the Shared Services default service ports and where you can configure them.

Table 14 Shared Services Default Service Ports

Service	Default Port Number	Where Configurable
Remote Authentication Module	28000	Remote Authentication Module installation program
Oracle Hyperion Remote Authentication Module	Additional dynamic port (1)	Not configurable
Embedded Shared Services Native Directory (OpenLDAP)	28089	<ul style="list-style-type: none"> ● UNIX: <code>HYPERION_HOME/products/Foundation/openLDAP/startOpenLDAP.sh</code> ● Windows: Edit the Windows Registry – <code>HKEY_LOCAL_MACHINE/SOFTWARE/OpenLDAP/Parameters/Urls</code> <p>To start OpenLDAP in a different port, see “Changing the OpenLDAP Port” on page 63</p>
Oracle Internet Directory (if used as Shared Services Native Directory)	389 636 (SSL)	See the Oracle Internet Directory documentation.

Changing the OpenLDAP Port

Use this procedure if you want to run OpenLDAP from a non-default port. You cannot update the port on the User Directories Management page in Shared Services.

► To change the OpenLDAP port:

- 1 Log on to the Shared Services Console.
- 2 Expand **Application Group**, then expand **Foundation**, and click **Deployment Metadata**.
- 3 Expand **Shared Services Registry**, then expand **Foundation Services Product**, then expand **Shared Services**.
- 4 Under **Shared Services**, select **CSSConfig**. Then right-click and select **Export for Edit**.
- 5 Save the file to your desktop.
- 6 Edit the exported file to change the `dirPort` value to the custom port value and save the file.
- 7 In the Oracle Hyperion Shared Services Console, right-click **CSSConfig** and click **Import After Edit**.
- 8 Browse to find the `CSSConfig.xml` file that you edited, then click **Finish**.
- 9 Under **Shared Services**, select **Native Provider Properties**, then right-click and select `Native Directory@<server>_<default port>`, then click **Export for Edit**.

Note: The default port can be either 28089 or 58089.

- 10 Save the `Native.Provider.properties` file to your desktop.

- 11 Edit the `Native.Provider.properties` file to change the port from 28089 or 58089 to the custom port, then save the file.
- 12 Under **Shared Services**, select **Native Provider Properties**, then right-click and select `Native Directory@<server>_<default port>`, then click **Import after Edit**.

Note: The default port can be 28089 or 58089.

- 13 Browse to find the `Native.Provider.properties` file that you edited, then click **Finish**.
- 14 Stop all EPM System products.
- 15 Stop Shared Services including OpenLDAP.

For Windows:

- a. Open the Windows Registry Editor by typing the command `regedit`.
- b. Go to `HKEY_LOCAL_MACHINE\SOFTWARE\OpenLDAP\Parameters` and change the **Urls string value** from `ldap://:28089` or `ldap://:58089` to `ldap://:<custom port>`

For UNIX:

- a. Search for `startOpenLDAP.sh` under the `<HYPERION_HOME>/products, Foundation/openLDAP` directory.
- b. Edit the file by replacing the existing port (28089 or 58089) with the custom port. Then save the changes.

- 16 Restart OpenLDAP and Oracle Hyperion Shared Services.
- 17 Restart all other Oracle Enterprise Performance Management System products.

EPM Workspace Ports

The following table describes the EPM Workspace default service ports and where you can configure them.

Table 15 EPM Workspace Default Service Ports

Service	Default Port Number	Where Configurable
Foundation ports: <ul style="list-style-type: none">● Global Services Manager (GSM)● Core Service● Service Broker● Job Service● Event Service● Repository Service	6800 - 6810 Each service listed in this table is assigned a port within the range, either the default range 6800 - 6810, or the range specified during configuration. To identify which port was assigned to each service, use the Configuration and Monitoring Console.	<ul style="list-style-type: none">● EPM System Configurator● Configuration and Monitoring Console
Annotation Service	8199	Configuration and Monitoring Console

The following table describes the EPM Workspace Web Server ports and where you can configure them.

Table 16 EPM Workspace Web Server Port

Server	Default Server Port	Where Configurable
Apache and IBM HTTP Server	19000	<i>WEB_SERVER_HOME/conf/httpd.conf</i>
IIS and Oracle HTTP Server	80 443 (SSL)	Microsoft Internet Information Services (IIS) Manager Console. Change the TCP port value setting.

The following table describes the Oracle Hyperion Enterprise Performance Management Workspace Web application ports and where you can configure them.

Table 17 EPM Workspace Web Application Ports

Port Type	Default Port Number	Where Configurable
Listen port	45000	EPM System Configurator
Additional listen port (1)	Dynamic	Not configurable
SSL listen port	45043	EPM System Configurator
Shutdown port for embedded Java container	45001	<i>HYPERION_HOME/deployments/AppServNameAndVersion/Workspace/conf/server.xml</i> For parameters, see the application server documentation.
AJP connector port for embedded Java container	45002	<i>HYPERION_HOME/deployments/AppServNameAndVersion/Workspace/conf/server.xml</i> For parameters, see the application server documentation.

Configuration and Monitoring Console Ports

The following table describes the Configuration and Monitoring Console ports and where you can configure them.

Table 18 Configuration and Monitoring Console Ports

Port Type	Default Port Number	Where Configurable
Configuration and Monitoring Console UI	55000	<i>HYPERION_HOME/common/workspacert/9.5.0.0/ui/conf/server.xml</i>
Configuration and Monitoring Console Agent	6860	Configuration and Monitoring Console

Performance Management Architect Ports

The following table describes the Performance Management Architect Web application ports and where you can configure them.

Table 19 Performance Management Architect Web Application Ports

Port Type	Default Port Number	Where Configurable
Performance Management Architect UI		
Listen port	19091 (can be configured for SSL)	EPM System Configurator
SSL listen port	19047	EPM System Configurator
Shutdown port for embedded Java container	19092	<i>HYPERION_HOME/deployments/AppServNameAndVersion/EPMAWebServer/conf/server.xml</i> For parameters, see the application server documentation.
AJP connector port for embedded Java container	19093	<i>HYPERION_HOME/deployments/AppServNameAndVersion/EPMAWebServer/conf/server.xml</i> For parameters, see the application server documentation.
Data Synchronizer Web Service (Performance Management Architect)		
Listen port	19101 (can be configured for SSL)	EPM System Configurator
SSL listen port	19145	EPM System Configurator
Shutdown port for embedded Java container	19102	<i>HYPERION_HOME/deployments/AppServNameAndVersion/EPMADataSynchronizer/conf/server.xml</i> For parameters, see the application server documentation.
AJP connector port for embedded Java container	19103	<i>HYPERION_HOME/deployments/AppServNameAndVersion/EPMADataSynchronizer/conf/server.xml</i> For parameters, see the application server documentation.

The following table describes the Performance Management Architect Dimension Server default service ports and where you can configure them.

Table 20 Performance Management Architect Dimension Server Default Service Ports

Services	Default Port Number	Where Configurable
Server Manager	5250	<i>HYPERION_HOME</i> /products/Foundation/BPMA/AppServer/DimensionServer/ServerEngine/bin/BPMA_Server_Config.xml <ServerManagerPort>portNumber</ServerManagerPort>
Process Manager	5251	<i>HYPERION_HOME</i> /products/Foundation/BPMA/AppServer/DimensionServer/ServerEngine/bin/BPMA_Server_Config.xml <Port>portNumber</Port> web.config file under the webservices directory <appSettings> parameter <add key="ProcessManagerPort" value="portNumber" />
Event Subscription	5252	<i>HYPERION_HOME</i> /products/Foundation/BPMA/AppServer/DimensionServer/ServerEngine/bin/BPMA_Server_Config.xml <EventSubscriptionPort>portNumber</EventSubscriptionPort>
Event Manager	5253	<i>HYPERION_HOME</i> /products/Foundation/BPMA/AppServer/DimensionServer/ServerEngine/bin/BPMA_Server_Config.xml <EventManagerPort>portNumber</EventManagerPort>
Job Manager	5254	<i>HYPERION_HOME</i> /products/Foundation/BPMA/AppServer/DimensionServer/ServerEngine/bin/BPMA_Server_Config.xml <JobManagerPort>portNumber</JobManagerPort>
Engine instances	5100–5140	<i>HYPERION_HOME</i> /products/Foundation/BPMA/AppServer/DimensionServer/ServerEngine/bin/BPMA_Server_Config.xml <MinEnginePort>portNumber</MinEnginePort> <MaxEnginePort>portNumber</MaxEnginePort>
Net JNI Bridge	5255	<i>HYPERION_HOME</i> /products/Foundation/BPMA/AppServer/DimensionServer/ServerEngine/bin/BPMA_Server_Config.xml <NetJNIBridgePort>portNumber</NetJNIBridgePort>

Note: The only Dimension Server service that can be started directly is Process Manager.

Upgrade Note!

The Dimension Server services ports have changed for this release. During an upgrade of Performance Management Architect, the old port numbers are changed to the new default ports for this release (listed above). If necessary, you can modify these ports to use the old port numbers.

The following table describes the Oracle Hyperion EPM Architect Web server default service ports and where you can configure them.

Table 21 Performance Management Architect Web Server Port

Default Web Server Port	Where Configurable
80	Microsoft Internet Information Services (IIS) Manager Console. Change the TCP port value setting.

Calculation Manager Web Application Ports

The following table describes the Oracle Hyperion Calculation Manager Web application ports and where you can configure them.

Table 22 Calculation Manager Web Application Ports

Port Type	Default Port Number	Where Configurable
Listen port	8500	EPM System Configurator
Shutdown port	8501	<i>HYPERION_HOME/deployments/AppServNameAndVersion/calcmgr/conf/server.xml</i> For parameters, see the application server documentation.
AJP connector port for embedded Java container	8502	<i>HYPERION_HOME/deployments/AppServNameAndVersion/calcmgr/conf/server.xml</i> For parameters, see the application server documentation.

Essbase Ports

See these sections for information about Oracle Essbase ports:

- [“Essbase Ports” on page 68](#)
- [“Administration Services Ports” on page 69](#)
- [“Provider Services Ports” on page 70](#)
- [“Smart Search Command Line Utility Ports” on page 70](#)
- [“Essbase Studio Ports” on page 70](#)

Essbase Ports

The following table describes the Essbase default service ports and where you can configure them.

Table 23 Essbase Default Service Ports

Service	Default Port Number	Where Configurable
Essbase Agent	1423	EPM System Configurator

Service	Default Port Number	Where Configurable
Essbase server applications (ESSVR)	32768-33768 (two ports per process)	EPM System Configurator
Oracle Essbase Integration Services Server	3388	<i>HYPERION_HOME/products/Essbase/eis/bin/ais.cfg</i> Add <i>-Pportnumber</i>

Note: Starting in release 11.1.1, if you do not specify Oracle Essbase port numbers in EPM System Configurator, the default ports are used.

Note: When multiple instances of Essbase Server are installed on one computer, you must specify a unique port number for each instance. By default, the first instance of Essbase Server uses port number 1423, which is specified in EPM System Configurator. Specify a different port number for the second instance during configuration with EPM System Configurator. You connect to subsequent installations by specifying the machine name and the agent port number, in the form: *machineName:agentPort* when connecting.

Note: There is a port conflict with the Oracle Enterprise Linux 5 or Red Hat Linux 5 LDAP client (Hyperion configures all UNIX and Linux for LDAP authorization). To work around this issue, change the application start port; for example, increment by one. For more information, see [Metalink](#) Note 760957.1.

Administration Services Ports

The following table describes the Oracle Essbase Administration Services Web application ports and where you can configure them.

Table 24 Administration Services Web Application Ports

Port Type	Default Port Number	Where Configurable
Listen port	10080	EPM System Configurator
SSL listen port	10083	EPM System Configurator
Shutdown port for embedded Java container	10081	<i>HYPERION_HOME/deployments/AppServNameAndVersion/eas/conf/server.xml</i> For parameters, see the application server documentation.
AJP connector port for embedded Java container	10082	<i>HYPERION_HOME/deployments/AppServNameAndVersion/eas/conf/server.xml</i> For parameters, see the application server documentation.

Provider Services Ports

The following table describes the Oracle Hyperion Provider Services Web application ports and where you can configure them.

Table 25 Provider Services Web Application Ports

Port Type	Default Port Number	Where Configurable
Listen port	13080	EPM System Configurator
SSL listen port	13083	EPM System Configurator
Shutdown port for embedded Java container	13081	<i>HYPERION_HOME/deployments/AppServNameAndVersion/aps/conf/server.xml</i> For parameters, see the application server documentation.
AJP connector port for embedded Java container	13082	<i>HYPERION_HOME/deployments/AppServNameAndVersion/aps/conf/server.xml</i> For parameters, see the application server documentation.

Smart Search Command Line Utility Ports

The following table describes the Oracle Hyperion Smart Search Command Line Utility Web application ports and where you can configure them.

Table 26 Smart Search Command Line Utility Web Application Ports

Port Type	Default Port Number	Where Configurable
Listen port	16080	EPM System Configurator
SSL listen port	16843	EPM System Configurator
Shutdown port for embedded Java container	16081	<i>HYPERION_HOME/deployments/AppServNameAndVersion/SmartSearch/conf/server.xml</i> For parameters, see the application server documentation.
AJP connector port for embedded Java container	16082	<i>HYPERION_HOME/deployments/AppServNameAndVersion/SmartSearch/conf/server.xml</i> For parameters, see the application server documentation.

Essbase Studio Ports

The following table describes the Oracle Essbase Studio ports and where you can configure them.

Table 27 Essbase Studio Ports

Port Type	Default Port Number	Where Configurable
Listen port	5300	<i>HYPERION_HOME/products/Essbase/EssbaseStudio/Server/server.properties</i> Parameters: <i>transport.port=new port number</i>
HTTP listen port	9080	<i>HYPERION_HOME/products/Essbase/EssbaseStudio/Server/server.properties</i> Parameters: <i>Server.httpPort=new port number</i>

Reporting and Analysis Ports

See these sections for information about Oracle Hyperion Reporting and Analysis ports:

- “Financial Reporting Ports” on page 71
- “Interactive Reporting Ports” on page 72
- “Web Analysis Ports” on page 72

Financial Reporting Ports

The following table describes the Financial Reporting Web application ports and where you can configure them.

Table 28 Financial Reporting Web Application Ports

Port Type	Default Port Number	Where Configurable
Listen port	8200	EPM System Configurator
SSL listen port	8243	EPM System Configurator
Shutdown port for embedded Java container	8201	<i>HYPERION_HOME/deployments/AppServNameAndVersion/FinancialReporting/conf/server.xml</i> For parameters, see the application server documentation.
AJP connector port for embedded Java container	8202	<i>HYPERION_HOME/deployments/AppServNameAndVersion/FinancialReporting/conf/server.xml</i> For parameters, see the application server documentation.

The following table describes the Financial Reporting default service ports and where you can configure them.

Table 29 Financial Reporting Default Service Ports

Service	Default Port Number	Where Configurable
Financial Reporting Report Service	Dynamic (2)	<i>HYPERION_HOME</i> /products/biplus/lib/fr_repserver.properties Parameters: HRRepSvrPort1, HRRepSvrPort2
Financial Reporting Scheduler Service	Dynamic	<i>HYPERION_HOME</i> /products/biplus/lib/fr_scheduler.properties Parameter: HRSchdSvrPort
Financial Reporting Print Service	Dynamic	<i>HYPERION_HOME</i> /products/biplus/lib/fr_printserver.properties Parameter: HRPrintSvrPort
Oracle Hyperion Financial Reporting Communication Service	8299	<i>HYPERION_HOME</i> /products/biplus/lib/fr_global.properties Parameter: RMIPort
Remote ADM Server port for Planning data source access	Dynamic	<i>HYPERION_HOME</i> /common/ADM/VERSION/lib/ADM.properties file on the Report Server machine Parameter: ADM_RMI_SERVER_PORT

Interactive Reporting Ports

The following table describes the Interactive Reporting default service ports and where you can configure them.

Table 30 Interactive Reporting Default Service Ports

Service	Default Port Number	Where Configurable
<ul style="list-style-type: none"> Data Access Service (DAS) Oracle Hyperion Interactive Reporting Service (Intelligence and Job Service) Logging Service 	<p>6810 - 6816</p> <p>Each service listed in this table is assigned a port within the range, either the default range 6810 - 6816, or the range specified during configuration.</p> <p>To identify which port was assigned to each service, use the Configuration and Monitoring Console.</p>	<ul style="list-style-type: none"> EPM System Configurator Configuration and Monitoring Console

Web Analysis Ports

The following table describes the Oracle Hyperion Web Analysis Web application ports and where you can configure them.

Table 31 Web Analysis Web Application Ports

Port Type	Default Port Number	Where Configurable
Listen port	16000	EPM System Configurator

Port Type	Default Port Number	Where Configurable
Additional listen ports (2)	Dynamic	Not configurable
SSL listen port	16043	EPM System Configurator
Shutdown port for embedded Java container	16001	<i>HYPERION_HOME/deployments/AppServNameAndVersion/WebAnalysis/conf/server.xml</i> For parameters, see the application server documentation.
AJP connector port for embedded Java container	16002	<i>HYPERION_HOME/deployments/AppServNameAndVersion/WebAnalysis/conf/server.xml</i> For parameters, see the application server documentation.

Financial Performance Management Applications Ports

See these sections for information about Oracle's Hyperion Financial Performance Management Applications ports:

- “Financial Management Ports” on page 73
- “Planning Ports” on page 74
- “Performance Scorecard Ports” on page 75
- “Strategic Finance Ports” on page 76
- “Profitability and Cost Management Ports” on page 76

Financial Management Ports

The following table describes the Financial Management default service ports and where you can configure them.

Table 32 Financial Management Default Service Port

Service	Default Port Number	Where Configurable
Financial Management Application Server	135-plus ephemeral high-range ports (1024–65536)	Windows settings—Fix DCOM ephemeral ports. See the Microsoft support article describing how to set the ports used by DCOM: http://support.microsoft.com . Search for "restrict DCOM port."

The following table describes the Financial Management Web server port and where you can configure it.

Table 33 Financial Management Web Server Port

Default Web Server Port	Where Configurable
80 (HTTP) or 443 (when SSL is enabled)	In Microsoft Internet Information Services (IIS) Manager Console, change the TCP port value setting.

The following table describes the Oracle Hyperion Financial Management SMTP port for email alerts and where you can configure it.

Table 34 Financial Management SMTP Port for Email Alerts

Default SMTP Port for Email Alerts	Where Configurable
25	In EPM System Configurator

Planning Ports

The following table describes the Planning Web application ports and where you can configure them.

Table 35 Planning Web Application Ports

Port Type	Default Port Number	Where Configurable
Listen port	8300	EPM System Configurator
SSL listen port	8343	EPM System Configurator
Shutdown port for embedded Java container	8301	<i>HYPERION_HOME</i> /deployments/ <i>AppServNameAndVersion</i> /HyperionPlanning/conf/server.xml For parameters, see the application server documentation.
AJP connector port for embedded Java container	8302	<i>HYPERION_HOME</i> /deployments/ <i>AppServNameAndVersion</i> /HyperionPlanning/conf/server.xml For parameters, see the application server documentation.

The following table describes the Planning default service ports and where you can configure them.

Table 36 Planning Default Service Port

Service	Default Port Number	Where Configurable
Planning RMI Server	11333	<p><i>HYPERION_HOME/common/RMI/VersionNumber/HyperionRMI_Port.properties</i></p> <p>Parameter: registryPort</p> <p>Note: You cannot change this port using the EPM System Configurator.</p> <p>To change the Planning RMI Server port:</p> <ol style="list-style-type: none"> 1. In the <i>HYPERION_HOME/common/RMI/9.5.0.0/HyperionRMI_Port.properties</i> file, change the registryPort value to the new port number. 2. In Oracle Hyperion Planning, select Administration, then Manage Properties, and then select System Properties. 3. Add a new parameter, <i>COMMON_RMI_PORT</i>, and specify the same port value that you entered in <i>HYPERIONRMI_Port.properties</i>. This updates the <i>HSPSYS_PROPERTIES</i> database. 4. Restart the Hyperion RMI Registry service. 5. Restart the Hyperion Planning Service.

Performance Scorecard Ports

The following table describes the Performance Scorecard Web application ports and where you can configure them.

Table 37 Performance Scorecard Web Application Ports

Port Type	Default Port Number	Where Configurable
Listen port	18080	EPM System Configurator
SSL listen port	18443	EPM System Configurator
Shutdown port for embedded Java container	18081	<p><i>HYPERION_HOME/deployments/AppServNameAndVersion/HPSWebReports/conf/server.xml</i></p> <p>For parameters, see the application server documentation.</p>
AJP connector port for embedded Java container	18082	<p><i>HYPERION_HOME/deployments/AppServNameAndVersion/HPSWebReports/conf/server.xml</i></p> <p>For parameters, see the application server documentation.</p>

The following table describes the Oracle Hyperion Performance Scorecard Alerter Web application ports and where you can configure them.

Table 38 Performance Scorecard Alerter Web Application Ports

Port Type	Default Port Number	Where Configurable
Listen port	18090	EPM System Configurator
SSL listen port	18444	EPM System Configurator
Shutdown port for embedded Java container	18091	<i>HYPERION_HOME/deployments/AppServNameAndVersion/HPSAlerter/conf/server.xml</i> For parameters, see the application server documentation.
AJP connector port for embedded Java container	18092	<i>HYPERION_HOME/deployments/AppServNameAndVersion/HPSAlerter/conf/server.xml</i> For parameters, see the application server documentation.

Strategic Finance Ports

The following table describes the Strategic Finance default service port and where you can configure it.

Table 39 Strategic Finance Default Service Port

Service	Default Port Number	Where Configurable
Strategic Finance Server	7750	EPM System Configurator Note: If you change this port, you must also change it for each Strategic Finance client in the Connection dialog box.

The following table describes the Oracle Hyperion Strategic Finance Web server port and where you can configure it.

Table 40 Strategic Finance Web Server Port

Default Web Server Port	Where Configurable
80 (HTTP) or 443 (HTTPS)	Microsoft Internet Information Services (IIS) Manager Console. (Change the TCP port value setting.)

Profitability and Cost Management Ports

The following table describes the Oracle Hyperion Profitability and Cost Management ports and where you can configure them.

Table 41 Profitability and Cost Management Default Ports

Type of Port	Default Port Number	Where Configurable
Listen port	6756	EPM System Configurator

Type of Port	Default Port Number	Where Configurable
Additional listen port	Dynamic	Not configurable
SSL listen port	6743	EPM System Configurator
Shutdown port for embedded Java container	6757	<i>HYPERION_HOME/deployments/AppServNameAndVersion/Profitability/conf/server.xml</i> For parameters, see the application server documentation.
AJP connector port for embedded Java container	6758	<i>HYPERION_HOME/deployments/AppServNameAndVersion/Profitability/conf/server.xml</i> For parameters, see the application server documentation.

Data Management Ports

See these sections for information about Oracle's Data Management ports.

- “FDM Ports” on page 77
- “Data Relationship Management Ports” on page 78

FDM Ports

The following table describes the FDM default service ports and where you can configure them.

Table 42 FDM Default Service Ports

Service	Default Port Number	Where Configurable
FDM load balancer FDM application server	135-plus ephemeral high-range ports (1024–65536)	Windows settings—Fix DCOM ephemeral ports. For more information, see the Microsoft support article describing how to set the ports used by DCOM: http://support.microsoft.com . Search for "restrict DCOM port."
File sharing	137–139, 445	Controlled by the operating system. By default, file sharing is enabled between all FDMapplication servers and the data server. Default port numbers are the following: <ul style="list-style-type: none"> • NetBIOS Datagram Service = port 138 • NetBIOS Name Resolution = port 137 • NetBIOS Session Service = port 139 If NetBIOS is turned OFF, then use SMB = port 445
Firewall	135 plus ephemeral high-range ports (1024–65536)	Windows settings—Fix DCOM ephemeral ports. For more information, see the Microsoft support article describing how to set the ports used by DCOM: http://support.microsoft.com . Search for "restrict DCOM port."

Note: For FDM, the DCOM port 135 must be open if you are running in a DMZ environment.

The following table describes the Oracle Hyperion Financial Data Quality Management Web server port and where you can configure it.

Table 43 FDM Web Server Port

Default Web Server Port	Where Configurable
80 (HTTP) or 443 (HTTPS)	Microsoft Internet Information Services (IIS) Manager Console. (Change the TCP port value setting.)

ERP Integrator Ports

The following table describes the Oracle Hyperion Financial Data Quality Management ERP Integration Adapter for Oracle Applications web application ports and where you can configure them.

Table 44 ERP Integrator Web Application Ports

Port Type	Default Port Number	Where Configurable
Listen port	6550	EPM System Configurator
SSL listen port	6553	Oracle Hyperion Enterprise Performance Management System Configurator

Data Relationship Management Ports

The following table describes the Data Relationship Management default service ports and where you can configure them.

Table 45 Data Relationship Management Default Service Port

Service	Default Port Number	Where Configurable
Data Relationship Management	135-plus ephemeral high-range ports (1024–65536)	<ul style="list-style-type: none">● <code>config.xml</code> using the Data Relationship Management Console● Windows settings—Fix DCOM ephemeral ports. For more information, see the Microsoft support article describing how to set the ports used by DCOM: http://support.microsoft.com . Search for "restrict DCOM port."

The following table describes the Oracle Hyperion Data Relationship Management Web server ports and where you can configure them.

Table 46 Data Relationship Management Web Server Ports

Default Web Server Ports	Where Configurable
80 (HTTP) 443 (HTTPS)	Microsoft Internet Information Services (IIS) Manager Console. (Change the TCP port value setting.)

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