Executive Scorecard

For the Windows® Operating System

Software version 1.00

Installation and Configuration Guide

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Contents

1 Installation Guide Overview

The Executive Scorecard Installation and Configuration Guide provides instructions for installing and configuring Executive Scorecard on a single server.

Executive Scorecard Architecture

Figure 1: Executive Scorecard Architecture on page 9 shows the configuration of all of the components that Executive Scorecard comprises.This guide details the installation and configuration of these components. Table 1: Executive Scorecard Architecture Descriptions on page 10 lists the description for each of the numbered items.

Figure 1: Executive Scorecard Architecture

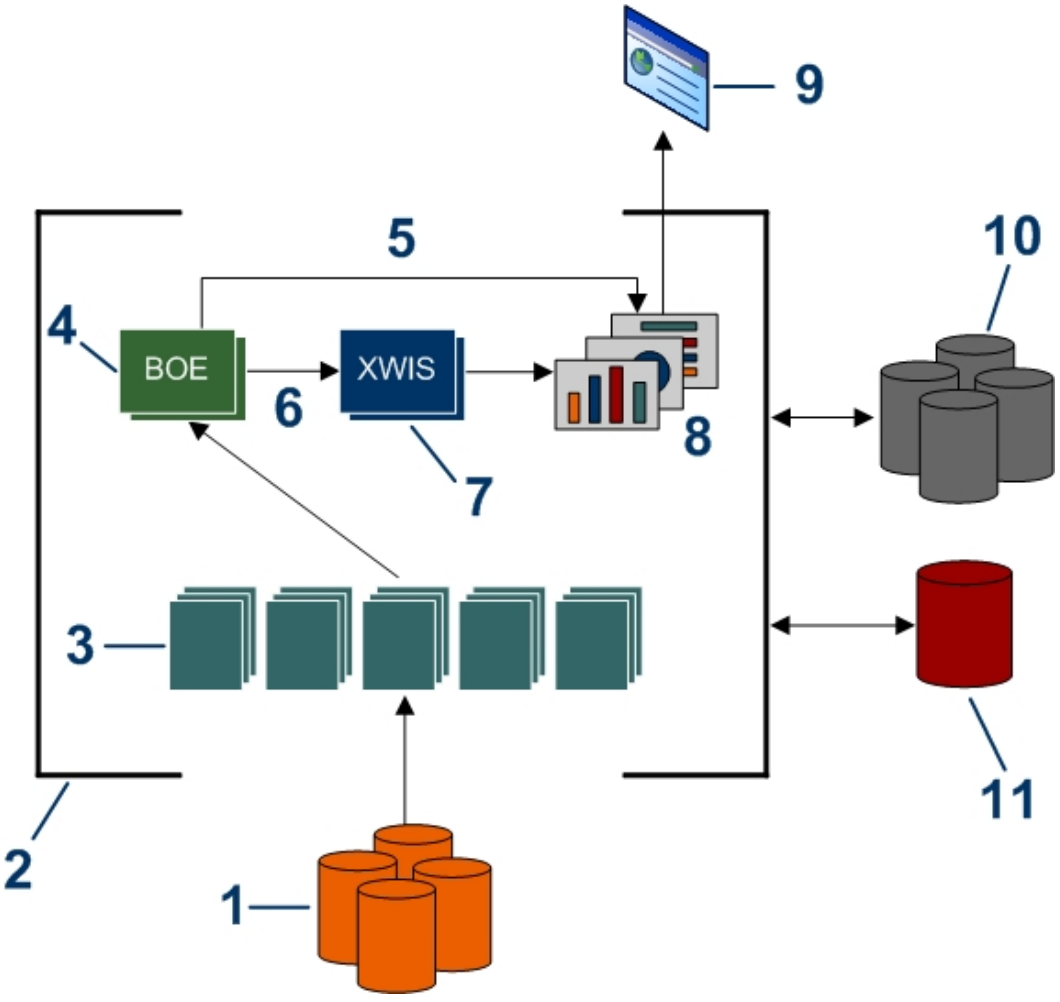

Table 1: Executive Scorecard Architecture Descriptions

Item	Description
1	Source Databases: Executive Scorecard is configured out-of-box to use data from HP Business Service Management 8.00, HP DecisionCenter 2.0.xx, HP IT Analytics Financial Planning & Analysis 2.0.x, and HP Project and Portfolio Management (PPM) 7.50. If you use PPM 8.00 or PPM 9.10, you can install Executive Scorecard 1.00 Hotfix 1 (XS1.00.001-HF1) to enable you to use the Executive Scorecard with PPM 8.00 or PPM 9.10.
2	The Executive Scorecard server.
3	Analytics Content Packs (BIAR files): XD_CIO: Contains metadata and KPI reports for all four sources as well as the Executive Scorecard page analytics. XD_BSM: Contains the universe and metric reports for the components that use Business Service Management data. XD_DC: Contains the universe and metric reports for the components that use DecisionCenter data. XD_FPA: Contains the universe and metric reports for the components that use Financial Planning & Analysis data. XD_PPM: Contains the universe and metric reports for the components that use Project and Portfolio Management data.
4	SAP® BusinessObjects Enterprise XI 3.1 applications.
5	Executive Scorecard uses visual components from BusinessObjects Enterprise.
6	The Antivia Xcelsius Web Intelligence Integration Suite enables Executive Scorecard to retrieve data from the BusinessObjects Enterprise server.
7	Antivia Xcelsius Web Intelligence Integration Suite applications.
8	The Executive Scorecard application.
9	Browser: Internet Explorer 7.
10	MSSQL Databases: Executive Scorecard database, BusinessObjects Enterprise CMS database, BusinessObjects Enterprise Audit database, and Antivia Xcelsius Web Intelligence Integration Suite database.
11	Security: Lightweight Directory Access Protocol (LDAP) or Active Directory authentication.

Installation Guide Chapter Overview

The table below summarizes the contents of each chapter.

Chapter	Description
Getting Started on page 13	Overview of installation procedures.
Meet System Requirements on page 15	The hardware, server software, and client workstation requirements. Also lists the supported data sources.
Generate a License on page 19	Information about how to obtain your Executive Scorecard license.
Configure Required Databases on page 20	The creation and configuration of the relational database management systems that you need for Executive Scorecard.
Install and Configure Executive Scorecard and Third Party Tools on page 30	How to install Executive Scorecard and use the Configuration Tool to install and configure third party tools.
Complete Post-Installation Configurations on page 38	How to configure authentication, create universe connections, and complete other required configurations.
Component Reference Information on page 88	Details about what data source each Executive Scorecard component references and the naming conventions for the components.

2 Getting Started

The Executive Scorecard installation package guides the installation and configuration of all the components necessary to run the application successfully.

These are the processes to follow to install and configure Executive Scorecard:

1. Meet System Requirements on page 15
2. Generate a License on page 19
3. Configure Required Databases on page 20
4. Install and Configure Executive Scorecard and Third Party Tools on page 30
5. Complete Post-Installation Configurations on page 38

3 Meet System Requirements

Before you begin the Executive Scorecard installation, make sure your system meets the minimum requirements for the following areas:

Hardware Requirements

These are the minimum hardware requirements for Executive Scorecard and the related components.

Item	Minimum Requirement
RAM	Application server: 8 GB Xcelsius customization workstation: 4 GB
Virtual Memory	Application server: 8 GB Xcelsius customization workstation: 4 GB
Disk Space	Application server: 13 GB Xcelsius customization workstation: 1.25 GB
Java Heap Size	The Java virtual machine on the server that hosts the Executive Scorecard application requires a heap size of at least 1024 MB. For example: -Xmx1024m -XX:MaxPermSize=256m

Note: You can install BusinessObjects Enterprise on an auxiliary disk drive; however, the installation process still requires a minimum of 5 GB of temporary file space on the C drive. Verify that you have this free space available.

Server Software Requirements

Product	Notes
Windows Server™ 2003 SP2 operating system	- Obtain Microsoft Windows Server 2003 software and license keys directly from Microsoft Corporation. - Make sure service pack 2 is installed. - Install the patches listed in Microsoft Patches on page 16.
Microsoft SQL Server 2005 SP2	- Supported driver (client): Microsoft SQL Server JDBC driver 1.2.2828 (sqljdbc-1.2.jar) - Obtain Microsoft SQL Server 2005 Enterprise Edition software and license keys directly from Microsoft Corporation. - Make sure service pack 2 is installed.
SAP® BusinessObjects Enterprise XI 3.1 Fix Pack 1.2	Included on the Executive Scorecard installation media.
Java™ 2 SDK, Standard Edition 5.0, v 1.5.0_15	Included on the Executive Scorecard installation media. Installed with BusinessObjects Enterprise.
Tomcat 5.5	Included on the Executive Scorecard installation media. Installed with BusinessObjects Enterprise.
Antivia Xcelsius Web Intelligence Integration Suite	Included on the Executive Scorecard installation media.
Adobe Reader 9 or higher	Free download available from the Adobe web site: www.adobe.com. (http://www.adobe.com).
Adobe Flash Player 10.0.45.2 or higher	Free download available from the Adobe web site: www.adobe.com. (http://www.adobe.com).

Note: A Microsoft SQL Server client is required on the machine that you run the Configuration Tool on.

Microsoft Patches

Install these Microsoft operating system patches before you begin the Executive Scorecard installation process.

- The Microsoft Windows Server 2003 (KB925336) patch. Available from www.microsoft.com. (http://www.microsoft.com/downloads/details.aspx?FamilyId=8EFFE1D9-7224-4586-BE2B-42C9AE5B9071&displaylang=en)
- Install the Microsoft Visual C++ 2005 SP1 Redistributable Package (x86) patch that contains Visual C++ Libraries runtime components. Available from www.microsoft.com. (http://www.microsoft.com/downloads/details.aspx?FamilyID=200b2fd9-ae1a-4a14-984d-389c36f85647&displaylang=en)
- Microsoft Core XML Services (MSXML) 6.0 Service Pack 1 (msxml6_x86.msi). Available from www.microsoft.com. (http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=d21c292c-368b-4ce1-9dab-3e9827b70604)

Note: Microsoft Core XML Services (MSXML) 6.0 Service Pack 2 (msxml6-KB954459-enu-x86.exe) is an optional security patch on MSXML 6.0 SP1. Available from www.microsoft.com. (http://www.microsoft.com/downloads/details.aspx?FamilyId=59914795-60c7-4ebe-828d-f28cb457e6e3&displaylang=en)

Client Workstation Requirements

Product	Notes
Microsoft Windows	Networked with Internet Explorer 7 browser.
Adobe Flash Player 10.0.45.2 or higher	Free download available from the Adobe web site: www.adobe.com. (http://www.adobe.com).
Microsoft Office XP	Version 2003 or 2007. BusinessObjects Enterprise requires Microsoft Excel.
JRE 5.0	Free download available from the Oracle web site: www.oracle.com. (http://www.oracle.com).
Monitor Resolution	The maximum resolution for viewing Executive Scorecard is 1440 x 1050. If the resolution is set higher than 1440 x 1050, the component hover text becomes truncated.

Compatibility with Other HP Products

Executive Scorecard is configured to use data from these four data sources:

- HP Business Service Management 8.00
- HP DecisionCenter 2.0.xx
- HP IT Analytics Financial Planning & Analysis 2.0.x
- HP Project and Portfolio Management 7.50
  Note: You can install Executive Scorecard 1.00 Hotfix 1 (XS1.00.001-HF1) to enable you to use the Executive Scorecard with PPM 8.00 or PPM 9.10.

Although Executive Scorecard supports these sources out-of-box, you can customize the product to use your own sources. Executive Scorecard components that use data from a source that you do not use will be populated with sample data until you clean out the sample data or supply the related data from your own data sources. For information about purging the sample data, see Step 1: Use the Clean All Data Utility on page 75.

4 Generate a License

The **HP License Key Delivery Service** web site (webware.hp.com) manages HP software licensing for Executive Scorecard. You can download the latest version of the *ESD and Webware License Management Guide* from this site. The guide describes the process to obtain your entitlement certificate, which contains the HP order number that you need to generate your permanent license keys.

Follow the steps in the *ESD and Webware License Management Guide* to give your HP order number, select the products that need licenses, and provide other required information. If you are a first time visitor to the web site, you will be asked to create an account with an email address and password. Most requests to generate permanent license keys require the following information:

- The Executive Scorecard product name and number shown on the product receipt or in the email sent by HP to acknowledge the order.
- The order number from the entitlement certificate.
- A target server name and IP address.
- Contact information, such as company name, your name, fax and phone numbers, and license ownership details.

Managing Permanent License Keys

After you create your user account on the HP License Key Delivery Service web site, generate the entitlement certificate, and generate the license keys, the License Key Delivery Service sends permanent keys to you in an email file attachment. When you receive the permanent license key file, save it in a convenient directory on the server where you plan to install the Executive Scorecard. During the Executive Scorecard installation and configuration, you will be prompted to install this license file.

If necessary, you can return to the HP License Key Delivery Service web site and retrieve the permanent license keys again by selecting **Manage Licenses** on the web site home page and logging into your account.

5 Configure Required Databases

The supported relational database management system (RDBMS) is Microsoft SQL Server 2005. Verify that you have a complete installation and configuration of the RDBMS server environment before you install the Executive Scorecard components. You must create the required databases on the RDBMS server and define Open Database Connectivity (ODBC) connections to connect the Executive Scorecard application to the databases.

Note: Although the databases in this section must be MS SQL server databases, Executive Scorecard does support data sources that are on Oracle databases.

Complete these steps to configure the required databases:

Step 1: Install Microsoft SQL Server 2005 SP2

Executive Scorecard uses the Microsoft SQL Server 2005 client with service pack 2 (SP2) as the relational database management system (RDBMS).

If you use Microsoft SQL Server 2005, install SP2. You can download SP2 from the Microsoft Download web site: http://www.microsoft.com/downloads/details.aspx?FamilyID=d09c1d60-a13c-4479-9b91-9e8b9d835cdc&displaylang=en.

If you do not use Microsoft SQL Server 2005, you must purchase and install the product. Then upgrade to SP2.

If you have already installed Microsoft SQL Server 2005 SP2, proceed to Step 2: Set SQL Server Authentication Properties on page 21.

Step 2: Set SQL Server Authentication Properties

1. From the Windows **Start** menu, click **All Programs** > **Microsoft SQL Server 2005** > **SQL Server Management Studio**.
2. Log in the with appropriate credentials.
3. In the Object Explorer, right-click the server name and select **Properties**.
4. Select the **Security** page in the left navigation pane.
5. Make sure **SQL Server and Windows Authentication mode** is selected.

Step 3: Enable TCP/IP

Enable Transmission Control Protocol (TCP)/Internet Protocol (IP) to permit communication between computers and between the web browser and web server.

1. From the Windows **Start** menu, click **All Programs** > **Microsoft SQL Server 2005** > **Configuration Tools** > **SQL Server Configuration Manager**.
2. In the left navigation pane, click **SQL Server 2005 Network Configuration** to expand it, then select **Protocols for MSSQLSERVER**.
3. In the right pane, make sure that the TCP/IP protocol is enabled. If necessary, right-click **TCP/IP** and select **Enable**.

Step 4: Create the Required Databases

Executive Scorecard requires that you create four databases:

- A BusinessObjects Enterprise (BOE) Central Management Server (CMS) database, which manages security, metadata, and content such as reports and universes. For more information about the CMS, see the BusinessObjects Enterprise *Administrator's Guide*.
- A BOE Audit database, which monitors user actions and helps track and manage your BOE deployment. For more information about the Audit database, see the BusinessObjects Enterprise *Administrator's Guide*.
- An Executive Scorecard database, which stores the Executive Scorecard tables.
- An Antivia Xcelsius Web Intelligence Integration Suite (XWIS) database, which contains data such as business intelligence system entries and XWIS license and user information.

Complete these tasks to create the required databases:

- Create the BOE CMS Database on page 23
- Create the BOE Audit Database on page 24
- Create the Executive Scorecard Database on page 25
- Create the Antivia XWIS Database on page 26

Follow the recommendations in Guidelines for Creating Databases on page 22 when you create the databases.

Guidelines for Creating Databases

Follow these guidelines when you create the required databases:

- **Database names**: RDBMS applications and BOE allow blank or empty database passwords. However, Executive Scorecard does not support databases with blank or empty passwords.

  HP recommends that you do not create database names with embedded spaces. Executive Scorecard supports only alphanumeric characters and underscores in database names. You can use underscores or camel case to create more descriptive names. For example, boecms can be boe_cms or boeCms, but avoid "boe cms" with an embedded blank space. If database names have embedded blank spaces, dashes, or other special characters, results may be unpredictable.

- **Collation**: When you define each required database, you must specify a collation that supports Unicode *nchar*, *nvarchar*, and *ntext* column data types.
- **Login names**: Each database must have a different login name. Also, the login must be assigned the appropriate roles so that the user has permission to create tables.
- **Passwords**: The ampersand special character (&), exclamation point (!), double quotation mark ("), single quotation mark ('), pipe (|), and carat (^) are not supported in a password. Underscores are valid.

Create the BOE CMS Database

1. From the Windows **Start** menu, select **Programs** > **Microsoft SQL Server 2005** > **SQL Server Management Studio**.
2. Log in to SQL Server Management Studio.
3. Select **Databases** in the Object Explorer pane, right-click, and select **New Database**. The New Database window opens.
4. On the General page, type the database name. Do not create a BOE CMS database with embedded blanks or special characters in the database name.
   Example: boecms
   Invalid names: boe cms, boe@cms
5. Click **Options** to open the Options page.
6. Select **SQL_Latin1_General_CP1_CI_AS** from the Collation drop-down list. This collation type supports Unicode *nchar*, *nvarchar*, and *ntext* column data types.
7. Click **OK**.
8. In the Object Explorer pane, select the **Security** folder. This is the Security folder for the main server. Right-click the folder, and select **New** > **Login**. The Login - New window opens.
9. On the General page, type the login name. You must create a different login name for the CMS, Audit, Executive Scorecard, and XWIS databases.
10. Select **SQL Server authentication**.
11. In the Password field, type the password for the login name. Then retype the password in the Confirm password field.
12. Clear the **Enforce password policy**, **Enforce password expiration**, and **User must change password at next login** check boxes.
13. Select the BOE CMS database name from the Default database drop-down list.
14. Click **Server Roles** to open the Server Roles page.
15. Select the **public** (if available) and **sysadmin** roles.
16. Click **User Mapping** to open the User Mapping page.
17. In the Users mapped to this login area, select the CMS database that you just created. The Users column becomes populated with the login name that you created in step 8.
18. In the Default Schema column, click in the cell to the right of the User column, and type the same value that appears in the User column.
19. Press **Enter**.
20. In the Database role membership for area, select **db_owner**. Also make sure **public** is selected.
21. Click **OK**.

For information about additional database and security settings, refer to the Microsoft SQL Server documentation.

Create the BOE Audit Database

1. From the Windows **Start** menu, select **Programs** > **Microsoft SQL Server 2005** > **SQL Server Management Studio**.
2. Log in to SQL Server Management Studio.
3. Select **Databases** in the Object Explorer pane, right-click, and select **New Database**. The New Database window opens.
4. On the General page, type the database name. Do not create a BOE Audit database with embedded blanks or special characters in the database name.
   Example: boeaudit
   Invalid names: boe audit, boe@audit
5. Click **Options** to open the Options page.
6. Select **SQL_Latin1_General_CP1_CI_AS** from the Collation drop-down list. This collation type supports Unicode *nchar*, *nvarchar*, and *ntext* column data types.
7. Click **OK**.
8. Select **Security** in the Object Explorer pane, right-click, and select **New** > **Login**. The Login - New window opens.
9. On the General page, type the login name. You must create a different login name for the CMS, Audit, Executive Scorecard, and XWIS databases.
10. Select **SQL Server authentication**.
11. In the Password field, type the password for the login name. Then retype the password in the Confirm password field.
12. Select the BOE Audit database name from the Default database drop-down list.
13. Click **Server Roles** to open the Server Roles page.
14. Select the **public** and **sysadmin** roles.
15. Click **User Mapping** to open the User Mapping page.
16. In the Users mapped to this login area, select the Audit database that you just created. The Users column becomes populated with the login name that you created in step 8.
17. In the Default Schema column, click in the cell to the right of the User column, and type the same value that appears in the User column.
18. Press **Enter**.
19. In the Database role membership for area, select **db_owner**. Also make sure **public** is selected.
20. Click **OK**.

For information about additional database and security settings, refer to the Microsoft SQL Server documentation.

Create the Executive Scorecard Database

1. From the Windows **Start** menu, select **Programs** > **Microsoft SQL Server 2005** > **SQL Server Management Studio**.
2. Log in to SQL Server Management Studio.
3. Select **Databases** in the Object Explorer pane, right-click, and select **New Database**. The New Database window opens.
4. On the General page, type the database name. Do not create an Executive Scorecard database with embedded blanks or special characters in the database name.
   Example: executivescorecard
   Invalid names: executive scorecard, executive@scorecard
5. Click **Options** to open the Options page.
6. Select **SQL_Latin1_General_CP1_CI_AS** from the Collation drop-down list. This collation type supports Unicode *nchar*, *nvarchar*, and *ntext* column data types.
7. Click **OK**.
8. Select **Security** in the Object Explorer pane, right-click, and select **New** > **Login**. The Login - New window opens.
9. On the General page, type the login name. You must create a different login name for the CMS, Audit, Executive Scorecard, and XWIS databases.
10. Select **SQL Server authentication**.
11. In the Password field, type the password for the login name. Then retype the password in the Confirm password field.
12. Select the Executive Scorecard database name from the Default database drop-down list.
13. Click **Server Roles** to open the Server Roles page.
14. Select the **public** and **sysadmin** roles.
15. Click **User Mapping** to open the User Mapping page.
16. In the Users mapped to this login area, select the Executive Scorecard database that you just created. The Users column becomes populated with the login name that you created in step 8.
17. In the Default Schema column, click in the cell to the right of the User column, and type the same value that appears in the User column.
18. Press **Enter**.
19. In the Database role membership for area, select **db_owner**. Also make sure **public** is selected.
20. Click **OK**.

For information about additional database and security settings, refer to the Microsoft SQL Server documentation.

Create the Antivia XWIS Database

1. From the Windows **Start** menu, select **Programs** > **Microsoft SQL Server 2005** > **SQL Server Management Studio**.
2. Log in to SQL Server Management Studio.
3. Select **Databases** in the Object Explorer pane, right-click, and select **New Database**. The New Database window opens.
4. On the General page, type the database name. Do not create a BOE Audit database with embedded blanks or special characters in the database name.
   Example: antiviaxwis
   Invalid names: antivia xwis, antivia@xwis
5. Click **Options** to open the Options page.
6. Select **SQL_Latin1_General_CP1_CI_AS** from the Collation drop-down list. This collation type supports Unicode *nchar*, *nvarchar*, and *ntext* column data types.
7. Click **OK**.
8. Select **Security** in the Object Explorer pane, right-click, and select **New** > **Login**. The Login - New window opens.
9. On the General page, type the login name. You must create a different login name for the CMS, Audit, Executive Scorecard, and XWIS databases.
10. Select **SQL Server authentication**.
11. In the Password field, type the password for the login name. Then retype the password in the Confirm password field.
12. Select the XWIS database name from the Default database drop-down list.
13. Click **Server Roles** to open the Server Roles page.
14. Select the **public** and **sysadmin** roles.
15. Click **User Mapping** to open the User Mapping page.
16. In the Users mapped to this login area, select the XWIS database that you just created. The Users column becomes populated with the login name that you created in step 8.
17. In the Default Schema column, click in the cell to the right of the User column, and type the same value that appears in the User column.
18. Press **Enter**.
19. In the Database role membership for area, select **db_owner**. Also make sure **public** is selected.
20. Click **OK**.

For information about additional database and security settings, refer to the Microsoft SQL Server documentation.

Step 5: Create ODBC Connections to the BOE Databases

Use the Windows ODBC Data Source Administrator wizard to create the Open Database Connectivity (ODBC) connections for the BusinessObjects Enterprise (BOE) databases that you created in Step 4: Create the Required Databases on page 22. You do not need to create ODBC connections to the Executive Scorecard and XWIS databases. The Executive Scorecard Configuration Tool will create the ODBC connections to those databases.

Step 5a: Create an ODBC Connection to the BOE CMS Database

You must create an ODBC connection to the BOE Central Management Server (CMS) database that you created in Create the BOE CMS Database on page 23.

1. Open the Windows ODBC Data Source Administrator wizard. From the Windows **Start** menu, select **Control Panel** > **Administrative Tools** > **Data Sources (ODBC)**.
2. Click the **System DSN** tab.
3. Click **Add**.
4. Select **SQL Server** from the list of drivers.
5. Click **Finish**.
6. Type the data source name (DSN) in the Name field.
   For example: boecms_dsn
7. Type a description of the data source in the Description field.
   For example: DSN for the BOE CMS database
8. From the Server drop-down list, select **(local)**. If SQL Server is on a different server, select that server.
9. Click **Next**.
10. Select the SQL Server authentication option.
11. Make sure **Connect to SQL Server to obtain default settings for the additional configuration options** is selected.
12. Type the SQL Server Login ID and Password.
13. Click **Next**.
14. Click **Next**, then click **Finish**. Review the configuration information on the ODBC Microsoft SQL Server Setup window.
15. Click **Test Data Source** to make sure the ODBC connection can be established.
16. Click **OK**, then click **OK** again.

Step 5b: Create an ODBC Connection to the BOE Audit Database

You must create an ODBC connection to the BOE Audit database that you created in Create the BOE Audit Database on page 24.

1. Open the Windows ODBC Data Source Administrator wizard. From the Windows **Start** menu, select **Control Panel** > **Administrative Tools** > **Data Sources (ODBC)**.
2. Click the **System DSN** tab.
3. Click **Add**.
4. Select **SQL Server** from the list of drivers.
5. Click **Finish**.
6. Type the data source name (DSN) in the Name field.
   For example: boeaudit_dsn
7. Type a description of the data source in the Description field.
   For example: DSN for the BOE Audit database
8. From the Server drop-down list, select **(local)**. If SQL Server is on a different server, select that server.
9. Click **Next**.
10. Select the SQL Server authentication option.
11. Make sure **Connect to SQL Server to obtain default settings for the additional configuration options** is selected.
12. Type the SQL Server Login ID and Password.
13. Click **Next**.
14. Click **Next**, then click **Finish**. Review the configuration information on the ODBC Microsoft SQL Server Setup window.
15. Click **Test Data Source** to make sure the ODBC connection can be established.
16. Click **OK**, then click **OK** again.

6 Install and Configure Executive Scorecard and Third Party Tools

The Executive Scorecard installer is self-directing with embedded instructions. There are two installation tools: the installer, which builds the directory structure and positions the files for configuration, and the Configuration Tool, which collects relevant information and configures the associated applications.

Installation Media

The installation media consolidates all of the required components into two DVDs. DVD 1, labeled HP Executive Scorecard 1.00 Installation, contains all of the installation files for Executive Scorecard, SAP® BusinessObjects Enterprise, and the Antivia Xcelsius Web Intelligence Integration Suite. Use this DVD to complete steps 1 – 6.

DVD 2, labeled Dashboard Development Kit, contains the installation files for the SAP BusinessObjects Xcelsius Engage Server. You will use the DVD 2 installation media and the Windows command line to complete step 7. Copy the contents of DVD 2 to your hard drive to install Xcelsius.

To install Executive Scorecard, complete the following steps.

Step 1: Install Executive Scorecard

Before you start the installation process, make sure that you completed the steps to acquire the license keys file from HP and have placed the license file on the server. For more information, see Generate a License on page 19.

HP recommends that you use a DVD drive that is local to the machine that you want to install Executive Scorecard on. You can also copy the files from the installation media to a directory on that machine. HP also recommends that you use the default installation path for Executive Scorecard. The default path is C:\Program Files\HP\Executive Scorecard.

Note: Make sure that a Microsoft SQL Server client is installed on the machine that you run the Configuration Tool on.

To install Executive Scorecard

1. Double-click **HP_Executive_Scorecard_100.msi**.
2. Follow the prompts. The installer builds the directory structure on the server and stages the files for final installation in the specified path.
3. Click **Finish.** The Configuration Tool opens and prompts you to import the license file. If the Configuration Tool does not open automatically, you can open it manually: from the Windows **Start** menu, click **Programs** > **HP Executive Scorecard** > **Configuration Tool**.

Step 2: Import the License File

1. On the License Management screen, click **Browse**, and navigate to the location of the license file that you acquired in Generate a License on page 19.
2. Select the license file and click **Open**.
3. Click **Import License**.
4. Click **OK**. The Configuration Tool validates the license.
5. Click **Main Menu**.

Step 3: Install and Configure SAP BusinessObjects Enterprise

To install and configure SAP® BusinessObjects Enterprise XI 3.1 (BOE), designate the BOE installation directory and set up connections to the Central Management Server (CMS) database and the Audit database.

Note: You can install BOE on an auxiliary disk drive; however, the installation process still requires a minimum of 5 GB of temporary file space on the C drive. Verify that you have this free space available.

Step 3a: Designate the BOE Installation Directory

1. From the Configuration Tool main menu, click **1 Configure SAP BusinessObjects Enterprise Server**.
2. On the Install Directory tab, click **Browse** and select the directory where you want to install BOE. If necessary, you can click the folder icon in the Open window and create a new folder. Follow these rules when you designate the installation directory:
   - Do not nest the BOE installation inside the Executive Scorecard directory.
   - Make sure the directory path does not exceed 39 characters. Avoid all special characters in paths except underscores (_), periods (.), back slashes (\), and blanks.
3. Click **Open**.
4. Click **Next** to go to the CMS Database tab and set up the connection to the BOE CMS database.

Step 3b: Set Up the CMS Database Connection

On the CMS Database tab, designate the BOE Central Management Server (CMS) that the BOE repository will map to.

1. Provide the following details. Use the information that you entered when you created the CMS database in Create the BOE CMS Database on page 23.
   - ODBC data source name: Type the Open Database Connectivity (ODBC) data source name of the CMS.
   - Database name: Type the name of the CMS database.
   - Login: Type the name that you use to log in to the CMS database.
   - Password: Type the password that you use to access the CMS.
   - Confirm password: Retype the password.
2. Click **Verify Connection** to test if Executive Scorecard can connect to the CMS database.
3. Click **Next** to go to the Audit Database tab and set up the connection to the BOE Audit database.

Step 3c: Set Up the Audit Database Connection

On the Audit Database tab, designate the BOE Audit database that the BOE repository will map to. Though you can store audit information in the CMS database, for improved performance, HP recommends that you use separate databases.

1. Provide the following details. Use the information that you entered when you created the Audit database in Create the BOE Audit Database on page 24.
   - ODBC data source name: Type the ODBC data source name of the Audit database.
   - Database name: Type the name of the Audit database.
   - Login: Type the name that you use to log in to the Audit database.

- Password: Type the password that you use to access the Audit database.
- Confirm password: Retype the password.

2. Click **Verify Connection** to test if Executive Scorecard can connect to the Audit database.
3. Click **Next** to go to the Review tab to review your BOE installation and configuration settings and complete the configuration.

If you want the Audit database to use the same database as the CMS database, select **Use the same database as the CMS**. However, to improve performance, HP recommends that you keep these databases separate.

Step 3d: Review Your Settings and Complete the BOE Configuration

On the Review tab, review the settings that you entered for the BOE installation directory and the CMS and Audit databases.

1. Review your settings for the BOE installation directory and the CMS and Audit databases. If you receive errors or need to make changes, click the appropriate tab, make the changes, and then return to the Review tab to complete the BOE configuration.
2. Click **Run Configuration**. The Configuration Tool extracts the BOE files, creates the installation directory, and installs and configures the appropriate files.
3. Click **Main Menu** to return to the Configuration Tool main menu.

Step 4: Configure Your Data Sources

To configure data sources, select the data sources that you use, then enter the configuration details for each source that you selected.

Step 4a: Select Data Sources

1. From the Configuration Tool main menu, click **2 Configure Data Sources**.
2. On the Select Data Sources tab, select the data source or sources that you use.
3. Click **Next** to go to the Configure Data Sources tab and configure Executive Scorecard to use each data source that you selected.

Step 4b: Configure Data Sources

On the Configure Data Sources tab, configure each of the data sources that you selected on the Select Data Sources tab. The list of data sources that are available to configure is based on the sources that you selected. The Configuration Tool creates the OBDC data source names for your sources. This name is predefined and cannot be changed.

1. Make sure that the BusinessObjects Enterprise (BOE) Server Intelligence Agent service is running. If you just installed and configured BOE (step 1 in the Configuration Tool), this service is running. However, if you installed and configured BOE at an earlier time, this service may be stopped.
   To check the status of the service:
   a. From the Windows **Start** menu, select **Programs** > **Business Objects XI 3.1** > **BusinessObjects Enterprise** > **Central Configuration Manager**.
   b. In the Display Name column in the Central Configuration Manager, locate the **Server Intelligence Agent (ExecutiveScorecard)** service.
   c. View the Status column for this service. If the Status is Running, close the Central Configuration Manager. If the service is stopped, right-click the service and select **Start**. Then close the Central Configuration Manager.
2. From the Configuration Tool main menu, click **2 Configure Data Sources**.
3. From the Data source name drop-down list, select the data source that you want to configure. The Configuration Tool displays the OBDC data source name for the source that you selected. The OBDC data source name is predefined and cannot be changed.
   Note: If you use PPM 8.00 or 9.10, select **Project and Portfolio Management 7.50** for the data source name. After you install and configure the Executive Scorecard, follow the instructions provided with XS1.00.001-HF1 to install Hotfix 1 and reconfigure Executive Scorecard to use data from PPM 8.00 or 9.10.
4. Select the type of database that the source uses.
   - If you chose Oracle for the database type, provide these details:
     - Oracle JDBC library location: Type the Oracle Java Database Connectivity (JDBC) library location or click **Browse** to navigate to the location.
     - Connection name: Type the connection name for the data source.
     - Login: Type the name that you use to log in to the data source.
     - Password: Type the password that you use to access the data source.
     - Confirm password: Retype the password.
   - If you chose SQL Server for the database type, provide these details:
     - Server name: Type the name of the server that the data source is on.
     - Database name: Type the data source database name.
     - Login: Type the name that you use to log in to the data source.
     - Password: Type the password that you use to access the data source.
     - Confirm password: Retype the password.
5. Click **Verify Connection** to test if Executive Scorecard can connect to the source database.
6. If you selected additional data sources, complete steps 1 - 3 for each source that you selected on the Select Data Sources tab.

7. Click **Next** to go to the Review tab to review your data source configuration settings and complete the configuration.

Step 4c: Review Your Settings and Complete the Data Source Configuration

1. Review your settings for the selected data sources. If you receive errors or need to make changes, click the appropriate tab, make the changes, and then return to the Review tab to complete the data source configuration.
2. Click **Run Configuration**. The Configuration Tool creates the SQL Server ODBC DSN connections for your data sources and deploys the data integration packages for all four supported data sources. These data integration packages contain sample data so that you can view all of the Executive Scorecard features regardless of the data sources you have. You can use the import clean data utility to purge the sample data for each source. However, HP recommends that you do not purge the sample data until you are ready to move to a production environment and enable other users to use Executive Scorecard. For information about the import clean data utility, see Step 1: Use the Clean All Data Utility on page 75.
3. Click **Main Menu** to return to the Configuration Tool main menu.

Step 5: Set Up the Executive Scorecard Database Connection

To configure the web application, set up the connection to the Executive Scorecard database that you created in Create the Executive Scorecard Database on page 25.

1. From the Configuration Tool main menu, click **3 Configure Web Application**.
2. On the Executive Scorecard Application tab, provide these details:
   - Database server: Type the name of the server that the Executive Scorecard database is on.
   - Database name: Type the name of the Executive Scorecard database.
   - Login: Type the name that you use to log in to the Executive Scorecard database.
   - Password: Type the password that you use to access the Executive Scorecard database.
   - Confirm Password: Retype the password that you use to access the Executive Scorecard database.
3. Click **Run Configuration**.

Step 6: Install and Configure Antivia XWIS

To install and configure Antivia Xcelsius Web Intelligence Integration Suite (XWIS), set up connections to the XWIS database. When you configure the database, use the information you entered when you created the database in Create the Antivia XWIS Database on page 26.

Step 6a: Set Up the XWIS Database Connection

On the XWIS tab, designate the BOE Central Management Server (CMS) that the BOE repository will map to.

1. Stop the Tomcat service:
   a. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **Central Configuration Manager**.
   b. Right-click the Apache Tomcat service and select **Stop**.
2. From the Configuration Tool main menu, click **Configure XWIS**.
3. On the XWIS tab, provide these details:
   - Server name: Type the name of the server that the XWIS database is on.
   - Database name: Type the name of the XWIS database.
   - Login: Type the name that you use to log in to the XWIS database.
   - Password: Type the password that you use to access the XWIS database.
   - Confirm password: Retype the password.
4. Click **Verify Connection** to test if Executive Scorecard can connect to the XWIS database.
5. Click **Next** to review your Antivia XWIS installation and configuration settings and complete the configuration.

Step 6b: Review Your Settings and Complete the XWIS Configuration

1. On the Review tab, review your settings for the XWIS database. If you receive errors or need to make changes, click the appropriate tab, make the changes, and then return to the Review tab to complete the XWIS configuration.
2. Click **Run Configuration**. The Configuration tool installs and configures Antivia XWIS and populates the XWIS database.
   Note: Several exceptions will appear in the Config log file after the configuration. The error messages are expected and indicate that the XWIS database has been populated for the first time.
3. Click **Main Menu** to return to the Configuration Tool main menu.
4. Delete all of the contents in the Tomcat work folder:
   <*BOE installation directory*>\Tomcat55\work\
5. Restart the Tomcat service:
   a. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **Central Configuration Manager**.
   b. Right-click the Apache Tomcat service and select **Start**.

Step 7: Install Xcelsius and the Xcelsius XWIS Add-On

To enable you to customize Executive Scorecard components or configure Executive Scorecard to use custom data sources, you must install SAP BusinessObjects Xcelsius Engage Server (BOXES) on a client workstation that has Microsoft Excel and Adobe Flash Player 10.0.45.2 installed. BOXES is provided on DVD 2 of the Executive Scorecard installation media. Copy the contents of DVD 2 onto your hard drive, and then install BOXES from your hard drive using the Windows command line. Also install the Antivia XWIS

Xcelsius add-on to enable Executive Scorecard to retrieve data from the BOE server.

Step 7a: Install Xcelsius

1. Open a Windows command line window.
2. Change the current directory to the ..\Setup\BO Installers\xcelsius directory that is in the folder for the DVD 2 contents that you copied to your hard drive:
3. Type this command:
   `install-xcelsiusSP3.bat -installdir`
   Where the installdir value is the directory path where you want to install Xcelsius. For example:
   `install-xcelsiusSP3.bat -installdir "C:\Program Files\HP\BO\xcelsius\"`
   Note: If other BOE applications exist on the host server where you want to install BOXES, BOXES installs in the same directory as BOE, regardless of the -installdir specification.
4. Press **Enter**. After the Xcelsius installation completes, your system may restart.

Step 7b: Install the Xcelsius XWIS Add-On

Install the Antivia Xcelsius Web Intelligence Integration Suite for HP OEM add-on to enable Executive Scorecard to retrieve data from the BOE server.

1. Download the add-on from the XWIS web application. To do so, open Windows Internet Explorer and type the address of the XWIS application.
   For example: http://xd1.americas.hpqcorp.net:8080/xwis-webapp
2. From the Components list on the web application getting started window, click **Download antivia-xwis XLX**.
3. Navigate to the location on your computer where you want to save the file, and click **Save**. Antivia saves the file to your computer as a .zip file.
4. Change the extension of the file to .xlx. Replace **zip** with **xlx**.
5. Open Xcelsius. From the File menu, select **Manage Add-Ons** to open the Xcelsius Add-On Manager.
6. Click **Install Add-On**, navigate to the location of the antivia-xwis.xlx file you saved in step 4, and double-click it. Xcelsius installs the add-on. When the add-on is successfully installed, **Antivia Xcelsius Web Intelligence Integration Suite for HP OEM** appears in the Xcelsius Add-On Manager window.
7. Click **Close** to close the Add-On Manager.
8. Close the XWIS application. XWIS prompts you to save your new untitled file.
9. Click **No**.

7 Complete Post-Installation Configurations

Follow the instructions in these steps to configure Executive Scorecard:

1. Configure User Roles and Authentication on page 39
2. Change Connection Properties in the BOE Central Management Console on page 61
3. Run the BSM and DC View Scripts on page 63
4. Change Session Time Out Parameters on page 64
5. Modify Universes on page 66
6. (BSM Users) Create the BSM Service Health Page on page 71
7. Configure Single Sign On on page 73
8. Launch Executive Scorecard on page 75
9. Clear the Sample Data on page 75
10. (Users without FPA) Modify the Last Refresh Reports on page 77
11. Schedule Reports to Refresh on page 80
12. (DC Users) Populate Dates in Service KPI Trend when BSM is Not Available on page 84
13. Customize the Components on page 86

Configure User Roles and Authentication

The Executive Scorecard security model uses a predefined access level and security role. The Authentication process involves the Executive Scorecard application and BusinessObjects Enterprise (BOE). The authentication process consists of these steps:

1. Executive Scorecard passes the user name and password to the authentication source (LDAP or AD). This step uses the applicationContext.xml file.
2. The authentication source replies with the user name and attribute details.
3. Executive Scorecard passes the information received in Step 2 to BOE. This action starts the second phase of the authentication process and references the web.xml file.
4. BOE queries the authentication source with the user name and password.
5. BOE receives authorization from the authentication source.
6. BOE passes a session ID to the Executive Scorecard application.

Executive Scorecard supports Lightweight Directory Access Protocol (LDAP) or Windows Active Directory (AD) authentication.

File-based security is configured out-of-box as a quick way to set up authentication for proof-of-concept, demo, or prototype installations. However, file-based authentication should not be used in a production environment.

- If your authentication source is LDAP, follow the instructions in Configure LDAP Authentication on page 40 to configure LDAP authentication.
- If your authentication source is AD, follow the instructions in Configure Active Directory Authentication on page 48 to configure AD authentication.
- If you want to configure simple, temporary authentication, see Configure File-Based Authentication on page 57.

Configure LDAP Authentication

Complete the following processes to configure LDAP authentication for Executive Scorecard and SAP BusinessObjects Enterprise. Before you define and enable LDAP authentication, create an LDAP server and make sure that your LDAP directory is valid. For more information, see your LDAP documentation.

Step 1: Create the LDAP applicationContext.xml File

Because Executive Scorecard enables you to use LDAP, AD, or file-based authentication, you must designate the type of authentication you are using by making the appropriate applicationContext.xml file active. Out-of-box, the applicationContext.xml file for file-based authentication is the active file.

To create the LDAP applicationContext.xml file

1. Navigate to this directory:
   C:\Program Files\HP\Executive Scorecard\Web Applications\executiveScorecard\WEB-INF
2. Find **applicationContext.xml**. This is the active file-based authentication file.
3. Rename this file to make it a backup file. For example, name it **applicationContext.xml_filebased**.
4. Find **applicationContext.xml_ldap**.
5. Rename this file to **applicationContext.xml**. The applicationContext.xml file for LDAP becomes the active authentication file.

Step 2: Add the XD_CIO User Group to Your LDAP Server

Add the following Executive Scorecard group to the LDAP server before you make configuration changes to BusinessObjects Enterprise.

XD_CIO: This role enables access to the Executive Scorecard application.

For instructions on adding user groups to LDAP, see your LDAP documentation.

Notes:

- The Executive Scorecard security framework prefixes XD_CIO with ROLE_ so that the group becomes **ROLE_XD_CIO** for Executive Scorecard.
- Changes to group names require changes to both the web.xml file and the LDAP server.

Step 3: Configure LDAP on the BOE Central Management Console

1. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **BusinessObjects Enterprise Central Management Console**.
2. Log in to the Central Management Console as an administrator.
3. Click **Authentication**, then click the **LDAP** tab.
4. Click **Start LDAP Configuration Wizard**.
5. In the Add LDAP Host (hostname: port) field, type your host and port information.
6. Click **Add**.
7. Click **Next**.
8. In the LDAP Server Type drop-down list, select your LDAP server, and click **Next**.
9. In the Base LDAP Distinguished Name field, type the distinguished name, and click **Next**.
10. Type the LDAP host credentials:
    - LDAP Server Administration Credentials: Type the distinguished name and password for a user account that has rights to administer your LDAP server.
    - LDAP Referral Credentials: Type the same distinguished name and password you entered for LDAP Server Administration Credentials.
11. In the Maximum Referral Hops field, type the number of referral hops to limit forwarding the credential request. If you set this field to zero, no referral hops are allowed.
12. Click **Next**.
13. From the Type of SSL authentication drop-down list, select **Basic (no SSL)** and click **Next**.
14. From the Authentication drop-down list, select **Basic (no SSO)** and click **Next**.
15. Select the following LDAP options:
    - **Create a new account for every added LDAP alias**
    - **Create new aliases only when the user logs on**
    - **New users are created as named users**
16. Click **Next**.
17. Click **Finish**.

Step 4: Add the XD_CIO User Group to the BOE Central Management Console

1. Click **Start** > **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **BusinessObjects Enterprise Central Management Console**.
2. Log in to the Central Management Console as an administrator.
3. Click **Authentication**, then click the **LDAP** tab.
4. In Mapped LDAP Member Groups, add the **XD_CIO** group to the Add LDAP group (by cn or dn) field.
5. Click **Add**.
6. Click **Update**.
7. Log out of BOE Central Management Console.

Step 5: Modify the BusinessObjects web.xml File

Change the web.xml file for the BusinessObjects InfoView application so that BOE can retrieve the login options.

1. Open **web.xml** with a text editor. The file is in:
   <*BOE installation directory*>\Tomcat55\webapps\InfoViewApp\WEB-INF
2. Set the authentication visible parameter to **true**.
   For example:
   ```
   <context-param>
    <param-name>authentication.visible</param-name>
    <param-value>true</param-value>
   </context-param>
   ```
3. Save and close web.xml.

Step 6: Test BOE Central Management Console LDAP User Access

1. Click **Start** > **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **BusinessObjects Enterprise Central Management Console**.
2. Type the username and password for an Active Directory user.
3. From the Authentication drop-down list, select **LDAP**. Navigation items are not available because the LDAP groups do not have rights.

   If the login fails, repeat the steps in Step 3: Configure LDAP on the BOE Central Management Console on page 41 and Step 4: Add the XD_CIO User Group to the BOE Central Management Console on page 42.

Step 7: Modify the Executive Scorecard web.xml File for LDAP Authentication

1. Stop the Tomcat service:
   a. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **Central Configuration Manager**.
   b. Right-click the Apache Tomcat service and select **Stop**.
2. Open **web.xml** with a text editor.
   The file is in: C:\Program Files\HP\Executive Scorecard\Web Applications\executiveScorecard\WEB-INF
3. Locate the **biAuthType** parameter section.
4. Change the parameter value to **secLDAP**.

```
<context-param>
 <param-name>biAuthType</param-name>
 <param-value>secLDAP</param-value>
</context-param>
```

5. Save and close web.xml.

Step 8: Modify the LDAP applicationContext.xml File

1. Open **applicationContext.xml** with a text editor. The file is in:
   C:\Program Files\HP\Executive Scorecard\Web Applications\executiveScorecard\WEB-INF
2. In the initialDirContextFactory bean, locate the following properties and make the necessary changes:
   - **constructor-arg value**: Change this element value to the LDAP server and port. For example:

```
<constructor-arg
value="ldap://myldapserver.secure.mycompany.com:
389/dc=secure,dc=mycompany,dc=com"/>
```

   - **managerDn**: Change this property value to the LDAP administrator:
     For example:

```
<property name="managerDn">
 <value>cn=Directory Manager</value>
</property>
```

   - **managerPassword**: Change this property value to the LDAP administrator password. For example:

```
<property name="managerPassword">
 <value>Password123</value>
</property>
```

3. In the authenticator bean, locate the **userDnPatterns** property. Use this property to specify all of the paths used to locate the users in your LDAP database who need access to Executive Scorecard. The value is the unique attribute of the user and the Organizational Unit that the user is in. List all of the possible search paths. For example:

```
<property name="userDnPatterns">
 <list>
```

```
 <value>uid={0},ou=People</value>
 <value>uid={0},ou=contractors,ou=People</value>
 <value>uid={0},ou=managers,ou=People</value>
 <value>uid={0},ou=parttime,ou=employees,
 ou=People</value>
 <value>uid={0},ou=fulltime,ou=employees,
 ou=People</value>
 </list>
</property>
```

4. In the userSearch bean, locate the following properties and make the necessary changes:
   - In the value for the first constructor-arg element, type the folder path within the LDAP server where users are located. For example:
     ```
     <constructor-arg>
      <value>ou=People,dc=labs,dc=hp,dc=com</value>
     </constructor-arg>
     ```
   - In the value for the second constructor-arg element, type the LDAP attribute that will be used to locate the user. For example:
     ```
     <constructor-arg>
      <value>(uid={0})</value>
     </constructor-arg>
     ```
   - In the **searchSubtree** property, type **true** if the users are located on several levels under the tree. If the value is not true, Executive Scorecard will not search through the tree.
5. In the populator bean, locate the following properties and make the necessary changes:
   - In the second constructor-arg element, add group information. For example:
     ```
     <constructor-arg>
      <value>ou=Groups</value>
     </constructor-arg>
     ```
   - **groupRoleAttribute**: Type the attribute that is used to identify the group. For example:
     ```
     <property name="groupRoleAttribute">
      <value>cn_</value>
     </property>
     ```
   - **groupSearchFilter**: Type the attribute in the LDAP server that defines the members of the group. For example:
     ```
     <property name="groupSearchFilter">
      <value>uniqueMember={0}</value>
     </property>
     ```
   - In the **searchSubtree** property, type **true** if the users are located on several levels under the tree. If the value is not true, Executive Scorecard will not search through the tree.
6. Save and close applicationContext.xml.
7. Delete all of the contents in the Tomcat work folder:
   <*BOE installation directory*>\Tomcat55\work\

8. Restart the Tomcat service:
   a. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **Central Configuration Manager**.
   b. Right-click the Apache Tomcat service and select **Start**.

Step 9: Test LDAP BOE InfoView Access

1. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **BusinessObjects Enterprise Java InfoView**.
2. Log in to InfoView with the same username and password that you used to log in to the BOE Central Management Console in Step 6: Test BOE Central Management Console LDAP User Access on page 42.
3. From the Authentication drop-down list, select **LDAP**.

   If the login fails, repeat these steps:

- Step 3: Configure LDAP on the BOE Central Management Console on page 41
- Step 4: Add the XD_CIO User Group to the BOE Central Management Console on page 42

Step 10: Configure BOE Access Rights

You must enable the Executive Scorecard group to view or edit the contents of a BusinessObjects Enterprise (BOE) folder. To configure BOE access rights, assign access to the Executive Scorecard folders, then enable access to the Root folder.

Assign Access to the Executive Scorecard Folders

1. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **BusinessObjects Enterprise Central Management Console**.
2. Log in as an administrator.
3. Click **Folders**.
4. Click **All Folders** to expand the folder.
5. Do the following for each of the Executive Scorecard folders:
   XD_BSM
   XD_DC
   XD_Financial
   XD_FPA
   XD_PPM
   XD_Program
   XD_Service
   XD_Summary
   XD_Xcelsius_Source

a. Right-click the folder, and select **User Security**.

b. On the User Security screen, click **Add Principals**.

c. Select **XD_CIO** in the Available users/groups list and click **>** to move the group to the Selected users/groups list.

d. Click **Add and Assign Security**.

e. On the Assign Security screen, select **Full Control** in the Available Access Levels list and click **>** to move access level to the Assigned Access Levels list.

f. Click **OK**.

g. Click **Close**.

h. Make sure you complete step 5 for all of the folders listed.

Enable Access to the Root Folder

1. In the left pane of the BOE Central Management Console, right-click **All Folders** and select **Properties**.
2. Click **User Security** in the left pane.
3. Click Add Principals.
4. Select **XD_CIO** in the Available users/groups list and click **>** to move the group to the Selected users/groups list.
5. Click **Add and Assign Security**.
6. Click the **Advanced** tab.
7. Click **Add/Remove Rights**. This link is directly under the tabs.
8. In the right pane on the Add/Remove Rights screen, find **View Objects** in the General Global Rights list. Do the following for the View Objects right:
   a. Select the **Granted** radio button (in the first column with the green check mark).
   b. Clear the **Apply to Sub Object** check box (in the last column).
9. Click **OK**, then click **OK** again.
10. Click **Close**.

Step 11: Test LDAP Authentication with Executive Scorecard

1. Open Windows Internet Explorer (IE).
2. Type the URL to the Executive Scorecard application.
   For example: http://xd1.americas.hp.net:8080/executiveScorecard
3. Log in to Executive Scorecard with the same user name and password that you used to test BOE InfoView access in Step 9: Test LDAP BOE InfoView Access on page 45.

4. When the Executive Scorecard pages attempt to load, you may get prompted to run the Java Applet and install or upgrade Adobe Flash Player. Click **Yes** for both prompts to avoid seeing these messages in the future.
5. Log out of Executive Scorecard and close IE.

Configure Active Directory Authentication

Before you define and enable Active Directory (AD) authentication, make sure that you have the correct domain and group information and a user account for SAP BusinessObjects Enterprise (BOE) that enables you to authenticate administrative users and groups.

Complete the following processes to configure AD authentication for Executive Scorecard and BOE.

Active Directory Guidelines

You can avoid initial Active Directory (AD) configuration issues by following these suggestions:

- Make sure that the AD groups are Security Groups and not Distributed Groups.
- Do NOT use Secure Socket Layer during the initial configuration. You can add this option after you confirm authentication on port 389.

When you create a Security Principal user, follow these suggestions:

- Ensure that this user is a member of the Domain Users group with rights to search all users.
- Assign this user to the same AD container as other users who will be trying to authenticate.
- Verify that this user has DES encryption set and that the password has not expired.
- Do NOT select the **do not require Kerberos preauthentication** option.
- Add the Security Principal user to the Executive Scorecard XD_CIO group for initial testing to confirm successful authentication.

Step 1: Create the Active Directory applicationContext.xml File

Because Executive Scorecard enables you to use LDAP, AD, or file-based authentication, you must designate the type of authentication you are using by making the appropriate applicationContext.xml file active. Out-of-box, the applicationContext.xml file for file-based authentication is the active file.

To create the Active Directory applicationContext.xml file

1. Navigate to this directory:
   C:\Program Files\HP\Executive Scorecard\Web Applications\executiveScorecard\WEB-INF
2. Find **applicationContext.xml**. This is the active file-based authentication file.
3. Rename this file to make it a backup file. For example, name it **applicationContext.xml_filebased**.
4. Find **applicationContext.xml_activedirectory**.
5. Rename this file to **applicationContext.xml**. The applicationContext.xml file for Active Directory becomes the active authentication file.

Step 2: Add the XD_CIO Member Group to Active Directory

Add the following Executive Scorecard group to the Active Directory server before you make configuration changes to BusinessObjects Enterprise.

XD_CIO: This role enables access to the Executive Scorecard application.

For instructions on adding member groups to Active Directory, see your Active Directory documentation.

Notes:

- The Executive Scorecard security framework prefixes XD_CIO with ROLE_ so that the group becomes **ROLE_XD_CIO** for Executive Scorecard.
- Changes to group names require changes to both the web.xml file and the Active Directory server.

Step 3: Configure Active Directory on the BOE Central Management Console

Once you enable Active Directory (AD) on the BusinessObjects Enterprise (BOE) Central Management Console, add administration credentials to enable a BOE user to use AD authentication, map groups, check rights, and perform other tasks. In addition, choose Kerberos authentication and set other AD authentication options.

Important: Any time you type a domain name, you must use upper case letters. Kerberos uses upper case letters, and BOE InfoView uses Kerberos. If you do not use upper case letters for domains, you will not be able to log in to BOE InfoView.

1. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **BusinessObjects Enterprise Central Management Console**.
2. Log in to the BOE Central Management Console as an administrator.
3. In the Manage section, click **Authentication**.
4. Click the **Windows AD** tab.

5. Select **Enable Windows Active Directory (AD)**.
6. Click the value for the **AD Administration Name** to change it. Type the name of the user account on the AD server. BOE will use this name and password to authenticate AD users and groups.
   For example: administrator@SERVER.DOMAIN.COM
7. Click the value for the **Default AD Domain** to change it. Specify a default domain to enable AD authentication and to map groups. By specifying the default AD domain name, users will not have to type the AD domain name when they log in to BOE with Active Directory authentication.
   For example: SERVER.DOMAIN.COM
8. In the Add AD Group field, type **XD_CIO**, then click **Add**.
9. Select **Use Kerberos authentication**.
10. Select **Cache security context (required for SSO to database)**.
11. If necessary, clear the **Enable Single Sign On for selected authentication mode** check box. Make sure this option is **not** selected.
12. Use the default options for the remaining options on this screen, and click **Update**. A message appears stating that it will take several seconds to update the member groups.
13. Click **OK**.
14. Log out of the BOE Central Management Console.

Step 4: Configure Java Authentication for Active Directory

BOE uses the Krb5AuthLoginModule Java authentication module. This module requires that you add some additional configuration information in two configuration files: **krb5.ini** and **bscLogin**.conf. The krb5.ini file gives Java information about your domain and location of the Kerberos Key Distribution Center. This file can be simple or complex depending on the size and implementation of your Active Directory domain. The bscLogin.conf file contains an entry that specifies the authentication technology to be used.

1. Create krb5.ini:
   a. Create a text file that contains the information that Java needs about Kerberos and your domain. For example:

```
[libdefaults]
default_realm = DOMAIN.COM
dns_lookup_kdc = true
dns_lookup_realm = true
[realms]
DOMAIN.COM = {
kdc = ADSERVER.DOMAIN.COM
default_domain = DOMAIN.COM
}
```

   Important: The domain values must use upper case letters.

b. Name the file **krb5.ini**, and save it in the directory of your choice. By default, Java looks for this file in C:\winnt. Since Tomcat loads Java at startup, if you save krb5.ini somewhere other than C:\winnt, you must configure Tomcat so that Java can find the file.

2. Create bscLogin.conf:
   a. Create a text file that specifies that you are using Active Directory authentication. When you use Sun Java SDK, the entry looks like this:
   ```
   com.businessobjects.security.jgss.initiate {
   com.sun.security.auth.module.Krb5LoginModule required;
   };
   ```
   b. Name the file **bscLogin.conf**, and save it in the directory of your choice. By default, Java looks for this file in C:\winnt. Since Tomcat loads Java at startup, if you save bscLogin.conf somewhere other than C:\winnt, you must configure Tomcat so that Java can find the file.
3. If you saved krb5.ini and bscLogin.conf in a directory other than C:\winnt, follow the instructions in Step 5: Configure Tomcat for Active Directory on page 51 to configure Tomcat so that Java can find these files.

Step 5: Configure Tomcat for Active Directory

Since Tomcat loads Java at startup, you must make sure that Tomcat can find the krb5.ini and bscLogin.conf files you created in Step 4: Configure Java Authentication for Active Directory on page 50. If you saved these files in a location other than C:\winnt, follow these instructions to configure Tomcat to find the files.

1. Stop the Tomcat service:
   a. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **Central Configuration Manager**.
   b. Right-click the Apache Tomcat service and select **Stop**.
2. From the Windows **Start** menu, click **Programs** > **Tomcat** > **Tomcat Configuration**.
3. Click the **Java** tab.
4. At the bottom of the list of options in the Java Options text box, type the following value:
   -Djava.security.auth.login.config=<path to krb5.ini>\bscLogin.conf
   -Djava.security.krb5.conf=<path to krb5.ini>\krb5.ini
   For example:
   ```
   -Djava.security.auth.login.config=C:\
   activedirectory\java\bscLogin.conf
   -Djava.security.krb5.conf=C:\activedirectory\java\
   krb5.ini
   ```
5. Click **OK**.
6. Delete all of the contents in the Tomcat work folder:
   <*BOE installation directory*>\Tomcat55\work\

7. Restart the Tomcat service:
   a. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **Central Configuration Manager**.
   b. Right-click the Apache Tomcat service and select **Start**.

Step 6: Test BOE Central Management Console Active Directory User Access

1. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI Release 3.1** > **BusinessObjects Enterprise** > **BusinessObjects Enterprise Central Management Console**.
2. Type the username and password for an Active Directory user.
3. From the Authentication drop-down list, select **Windows AD**. Navigation items are not available because the Active Directory groups do not have rights.

   If the login fails, repeat steps 1 - 8 in Step 3: Configure Active Directory on the BOE Central Management Console on page 49.

Step 7: Modify the Executive Scorecard web.xml File for Active Directory Authentication

1. Stop the Tomcat service:
   a. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **Central Configuration Manager**.
   b. Right-click the Apache Tomcat service and select **Stop**.
2. Open **web.xml** with a text editor. The file is in:
   C:\Program Files\HP\Executive Scorecard\Web Applications\executiveScorecard\WEB-INF
3. Locate the **biAuthType** parameter section.
4. Change the parameter value to **secWinAD**.

```
<init-param>
 <param-name>biAuthType</param-name>
 <param-value>secWinAD</param-value>
</init-param>
```

5. Save and close web.xml.

Step 8: Modify the Active Directory applicationContext.xml File

1. Open **applicationContext.xml** with a text editor. The file is in:
   C:\Program Files\HP\Executive Scorecard\Web Applications\executiveScorecard\WEB-INF
2. In the initialDirContextFactory bean, locate the following properties and make the necessary changes:
   - **constructor-arg value**: Change this element value to the Active Directory server and port. For example:
     `<constructor-arg value="ldap://`

```
myadserver.secure.mycompany.com:389"/>
```

- **managerDn**: Change this property value to the LDAP administrator:
  For example:
```
<property name="managerDn">
 <value>CN=user password,OU=XDTEST,DC=secure,
 DC=mycompany,DC=com</value>
</property>
```

- **managerPassword**: Change this property value to the LDAP administrator password. For example:
```
<property name="managerPassword">
 <value>Password123</value>
</property>
```

3. In the authenticator bean, locate the **userDnPatterns** property. Use this property to specify all of the paths used to locate the users in your Active Directory database who need access to Executive Scorecard. The value is the unique attribute of the user and the Organizational Unit that the user is in. List all of the possible search paths. For example:
```
<property name="userDnPatterns">
 <list>
 <value>cn={0},ou=People</value>
  <value>cn={0},ou=contractors,ou=People</value>
  <value>cn={0},ou=managers,ou=People</value>
 <value>cn={0},ou=parttime,ou=employees,
 ou=People</value>
 <value>cn={0},ou=fulltime,ou=employees,
 ou=People</value>
 </list>
</property>
```

4. In the userSearch bean, locate the following properties and make the necessary changes:
   - In the value for the first constructor-arg element, type the folder path within the AD server where users are located. For example:
```
<constructor-arg>
<value>OU=XDTEST,DC=secure,
DC=mycompany,DC=com</value>
</constructor-arg>
```

   - In the value for the second constructor-arg element, type the AD attribute that will be used to locate the user. For example:
```
<constructor-arg>
 <value>(sAMAccountName={0})</value>
</constructor-arg>
```

   - In the **searchSubtree** property, type **true** if the users are located on several levels under the tree. If the value is not true, Executive Scorecard will not search through the tree.

5. In the populator bean, locate the following properties and make the necessary changes:
   - In the second constructor-arg element, add group information. For example:
     ```
     <constructor-arg>
      <value>ou=Groups</value>
     </constructor-arg>
     ```
   - **groupRoleAttribute**: Type the attribute that is used to identify the group. For example:
     ```
     <property name="groupRoleAttribute">
      <value>cn_</value>
     </property>
     ```
   - **groupSearchFilter**: Type the attribute in LDAP server that defines the members of the group. For example:
     ```
     <property name="groupSearchFilter">
      <value>group={0}</value>
     </property>
     ```
   - In the **searchSubtree** property, type **true** if the users are located on several levels under the tree. If the value is not true, Executive Scorecard will not search through the tree.
6. Save and close applicationContext.xml.
7. Delete all of the contents in the Tomcat work folder:
   <*BOE installation directory*>\Tomcat55\work\
8. Restart the Tomcat service:
   a. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **Central Configuration Manager**.
   b. Right-click the Apache Tomcat service and select **Start**.

Step 9: Test Active Directory BOE InfoView Access

1. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **BusinessObjects Enterprise Java InfoView**.
2. Log in to InfoView with the same username and password that you used to log in to the BOE Central Management Console in Step 6: Test BOE Central Management Console Active Directory User Access on page 52.
3. From the Authentication drop-down list, select **Windows AD**.

   If the login fails, repeat these steps:

- Step 2: Add the XD_CIO Member Group to Active Directory on page 49
- Step 3: Configure Active Directory on the BOE Central Management Console on page 49

Step 10: Configure BOE Access Rights

You must enable the Executive Scorecard group to view or edit the contents of a BusinessObjects Enterprise (BOE) folder. To configure BOE access rights, assign access to the Executive Scorecard folders, then enable access to the Root folder.

Assign Access to the Executive Scorecard Folders

1. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **BusinessObjects Enterprise Central Management Console**.
2. Log in as an administrator.
3. Click **Folders**.
4. Click **All Folders** to expand the folder.
5. Do the following for each of the Executive Scorecard folders:
   XD_BSM
   XD_DC
   XD_Financial
   XD_FPA
   XD_PPM
   XD_Program
   XD_Service
   XD_Summary
   XD_Xcelsius_Source
   a. Right-click the folder, and select **User Security**.
   b. On the User Security screen, click **Add Principals**.
   c. Select **XD_CIO** in the Available users/groups list and click **>** to move the group to the Selected users/groups list.
   d. Click **Add and Assign Security**.
   e. On the Assign Security screen, select **Full Control** in the Available Access Levels list and click **>** to move access level to the Assigned Access Levels list.
   f. Click **OK**.
   g. Click **Close**.
   h. Make sure you complete step 5 for all of the folders listed.

Enable Access to the Root Folder

1. In the left pane of the BOE Central Management Console, right-click **All Folders** and select **Properties**.
2. Click **User Security** in the left pane.
3. Click Add Principals.

4. Select **XD_CIO** in the Available users/groups list and click **>** to move the group to the Selected users/groups list.
5. Click **Add and Assign Security**.
6. Click the **Advanced** tab.
7. Click **Add/Remove Rights**. This link is directly under the tabs.
8. In the right pane on the Add/Remove Rights screen, find **View Objects** in the General Global Rights list. Do the following for the View Objects right:
   a. Select the **Granted** radio button (in the first column with the green check mark).
   b. Clear the **Apply to Sub Object** check box (in the last column).
9. Click **OK**, then click **OK** again.
10. Click **Close**.

Step 11: Test Active Directory Authentication with Executive Scorecard

1. Open Windows Internet Explorer (IE).
2. Type the URL to the Executive Scorecard application.
   For example: http://xd1.americas.hpqcorp.net:8080/executiveScorecard
3. Log in to Executive Scorecard with the same user name and password that you used to test BOE InfoView access in Step 9: Test Active Directory BOE InfoView Access on page 54.
4. When the Executive Scorecard pages attempt to load, you may get prompted to run the Java Applet and install or upgrade Adobe Flash Player. Click **Yes** for both prompts to avoid seeing these messages in the future.
5. Log out of Executive Scorecard and close IE.

Configure File-Based Authentication

Follow these steps to configure authentication specified by a file. This is a quick way to set up temporary authentication for a test environment or prototype, but file-based authentication should not be used in a production environment.

Step 1: Create a User and a Group in the BOE Central Management Console

1. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI Release 3.1** > **BusinessObjects Enterprise** > **BusinessObjects Enterprise Central Management Console**.
2. Log in to the Central Management Console as an administrator.
3. Click **Users and Groups**.
4. Right-click **User List** and select **New User**.
5. Accept the default Authentication Type: **Enterprise**.
6. Type an **Account Name**. For example: demo.
7. Type a password. For example: demo
8. In the Confirm field, retype the password.
9. Accept the default Connection Type: **Concurrent User**.
10. Click **Create & Close**.
11. Right-click **Group List** and select **New Group**.
12. Type a Group Name. For example: XD_CIO
13. Click **OK**. The new group appears in the right pane.
14. Right-click the new group and select **Add Members to Group**.
15. Add one or more users to the group by selecting a user role in the middle pane and clicking the right arrow (>) to move that user role into the group. For example, select Everyone to include all users, or select Administrators to limit the access to administrators.
16. Click **OK**.
17. Log out of the BOE Central Management Console and close the application.

Step 2: Modify the Executive Scorecard web.xml file for File-Based Authentication

1. Stop the Tomcat service:
   a. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **Central Configuration Manager**.
   b. Right-click the Apache Tomcat service and select **Stop**.
2. Open **web.xml** with a text editor. The file is in:
   C:\Program Files\HP\Executive Scorecard\Web Applications\executiveScorecard\WEB-INF
3. Locate the **biAuthType** parameter section.
4. Change the parameter value to **secEnterprise**.

```
<init-param>
 <param-name>biAuthType</param-name>
 <param-value>secEnterprise</param-value>
</init-param>
```

5. Save and close web.xml.

Step 3: Configure Executive Scorecard Access

Change the Executive Scorecard user properties file to add the user that you created in Step 1: Create a User and a Group in the BOE Central Management Console on page 57.

1. Open **user.properties** with a text editor. The file is in:
   C:\Program Files\HP\Executive Scorecard\Web Applications\executiveScorecard\WEB-INF
2. Add to this file the user name, password, and group that you added to the BOE Central Management Console in Step 1: Create a User and a Group in the BOE Central Management Console on page 57.
   For example:
   `demo=demo,ROLE_XD_CIO`
3. Save and close user.properties.
4. Delete all of the contents in the Tomcat work folder:
   <*BOE installation directory*>\Tomcat55\work\
5. Restart the Tomcat service:
   a. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **Central Configuration Manager**.
   b. Right-click the Apache Tomcat service and select **Start**.

Step 4: Test File-Based Authentication with Executive Scorecard

1. Open Windows Internet Explorer (IE).
2. Type the URL to the Executive Scorecard application.
   For example: http://xd1.americas.hp.net:8080/executiveScorecard

3. Log in to Executive Scorecard with the same user name and password that you added to the user.properties file Step 3: Configure Executive Scorecard Access on page 58.
4. When the Executive Scorecard pages attempt to load, you may get prompted to run the Java Applet and install or upgrade Adobe Flash Player. Click **Yes** for both prompts to avoid seeing these messages in the future.
5. Log out of Executive Scorecard and close IE.

Step 5: Configure BOE Access Rights

You must enable the Executive Scorecard group to view or edit the contents of a BusinessObjects Enterprise (BOE) folder. To configure BOE access rights, assign access to the Executive Scorecard folders, then enable access to the Root folder.

Assign Access to the Executive Scorecard Folders

1. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **BusinessObjects Enterprise Central Management Console**.
2. Log in as an administrator.
3. Click **Folders**.
4. Click **All Folders** to expand the folder.
5. Do the following for each of the Executive Scorecard folders:
   XD_BSM
   XD_DC
   XD_Financial
   XD_FPA
   XD_PPM
   XD_Program
   XD_Service
   XD_Summary
   XD_Xcelsius_Source
   a. Right-click the folder, and select **User Security**.
   b. On the User Security screen, click **Add Principals**.
   c. Select **XD_CIO** in the Available users/groups list and click **>** to move the group to the Selected users/groups list.
   d. Click **Add and Assign Security**.
   e. On the Assign Security screen, select **Full Control** in the Available Access Levels list and click **>** to move access level to the Assigned Access Levels list.
   f. Click **OK**.
   g. Click **Close**.
   h. Make sure you complete step 5 for all of the folders listed.

Enable Access to the Root Folder

1. In the left pane of the BOE Central Management Console, right-click **All Folders** and select **Properties**.
2. Click **User Security** in the left pane.
3. Click Add Principals.
4. Select **XD_CIO** in the Available users/groups list and click **>** to move the group to the Selected users/groups list.
5. Click **Add and Assign Security**.
6. Click the **Advanced** tab.
7. Click **Add/Remove Rights**. This link is directly under the tabs.
8. In the right pane on the Add/Remove Rights screen, find **View Objects** in the General Global Rights list. Do the following for the View Objects right:
   a. Select the **Granted** radio button (in the first column with the green check mark).
   b. Clear the **Apply to Sub Object** check box (in the last column).
9. Click **OK**, then click **OK** again.
10. Click **Close**.

Change Connection Properties in the BOE Central Management Console

Because each Executive Scorecard component uses a connection to BusinessObjects Enterprise (BOE), you must increase the default settings for the connections in the BOE Central Management Console.

1. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **BusinessObjects Enterprise Central Management Console**.
2. Log in to the BOE Central Management Console as an administrator.
3. Click **Servers**.
4. Expand **Service Categories** in the left pane.
5. Click **Web Intelligence**.
6. Double-click **ExecutiveScorecard.WebIntelligenceProcessingServer** in the right pane.
7. In the Properties window, change the values for the following settings:
   - **Maximum Documents per User**: HP recommends that you increase this setting to **20**. However, this value should be set according to the needs of your company.
     This setting specifies the maximum number of active sessions or Web Intelligence reports that can be associated with a user at any time. The valid range is 1 – 20.
   - **Maximum Connections**: HP recommends that you increase this setting to **700**. However, this value should be set according to the needs of your company.
     This setting specifies the approximate maximum number of simultaneous sessions that can be opened at one time. The valid range is 5 – 65,535.
   - **Idle Connection Timeout (minutes)**: HP recommends that you increase this setting to **40**. However, this value should be set according to the needs of your company.
     This setting specifies the number of minutes that the server waits for a request from an idle connection. If you set this value too low, the request may close prematurely. If you set this value too high, requests will be queued while the server waits for idle requests to close.
8. Click **Save & Close**.
9. Log out of the BOE Central Management Console and close the application.
10. Stop the BOE service:
    a. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **Central Configuration Manager**.
    b. Right-click the **Server Intelligence Agent (ExecutiveScorecard)** service and select **Stop**.
11. Stop the Tomcat service:
    a. In the Central Configuration Manager, right-click the **Apache Tomcat 5.5** service and select **Stop**.

12. Restart the BOE service:
    a. In the Central Configuration Manager, right-click the **Server Intelligence Agent (ExecutiveScorecard)** service and select **Start**.
13. Delete all of the contents in the Tomcat work folder:
    <*BOE installation directory*>\Tomcat55\work\
14. Restart the Tomcat service:
    a. In the Central Configuration Manager, right-click the **Apache Tomcat 5.5** service and select **Start**.

Run the BSM and DC View Scripts

If you use HP Business Service Management (BSM) or HP DecisionCenter (DC) as a data source, you must run a view script on that source database to create the views that Executive Scorecard will use to access data from those sources.

- If you use BSM, see Run the BSM View Script on page 63 for instructions on running the BSM view script.
- If you use DC, see Run the DC View Script on page 63 for instructions on running the DC view script.

Run the BSM View Script

1. Open the database client for your BSM database and log in with the proper login or schema.
2. From the database client, navigate to the location of the appropriate view script and run the script:
   - If you use an Oracle database, navigate to the script for Oracle.
     For example: C:\Program Files\HP\Executive Scorecard\ContentPacks\bsm\schema\oracle
     Run **BSM8.0.sql**.
   - If you use a SQL Server database, navigate to the script for SQL Server.
     For example: C:\Program Files\HP\Executive Scorecard\ContentPacks\bsm\schema\mssql
     Run **BSM8.0.sql**.

Run the DC View Script

1. Open the database client for your DC database and log in with the proper login or schema.
2. From the database client, navigate to the location of the appropriate view script and run the script:
   - If you use an Oracle database, navigate to the script for Oracle.
     For example: C:\Program Files\HP\Executive Scorecard\ContentPacks\dc\schema\oracle
     Run **DC2.0.sql**.
   - If you use a SQL Server database, navigate to the script for SQL Server.
     For example: C:\Program Files\HP\Executive Scorecard\ContentPacks\dc\schema\mssql
     Run **DC2.0.sql**

Change Session Time Out Parameters

The default timeout value for BOE applications is 20 minutes. To extend the session timeout parameter for the applications, follow these steps:

1. Stop the Tomcat service:
   a. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **Central Configuration Manager**.
   b. Right-click the Apache Tomcat service and select **Stop**.
2. Open **dsws.properties** with a text editor. The file is in <*BOE installation directory*>\Tomcat55\webapps\dswsbobje\WEB-INF\classes
3. Add the following property at the end of the file. Express the timeout value in seconds. For example, this is a session timeout value of 24 hours:
   ```
   # Session timeout
   session.timeout=86400
   ```
4. Save and close the file.
5. Open **server.xml** with a text editor. The file is in <*BOE installation directory*>\Tomcat55\conf
6. Update the **connectionTimeout** property for port 8080 to match the value that you specified in dsws.properties. However, express the timeout value for the Tomcat instance in milliseconds. For example, this is a session timeout value of 24 hours:
   ```
   connectionTimeout=86400000
   ```
7. Save and close the file.
8. Open the **web.xml** file in this directory with a text editor:
   <*BOE installation directory*>\Tomcat55\webapps\infoViewApp\WEB-INF
9. Also open the **web.xml** file in this directory:
   <*BOE installation directory*>\Tomcat55\webapps\infoViewAppActions\WEB-INF
10. In addition, open the **web.xml** file in this directory:
    <*BOE installation directory*>\Tomcat55\conf
11. In all three web.xml files, update the session timeout property to match the value that you specified in dsws.properties. However, express the timeout value in minutes. For example, this is a session timeout value of 24 hours:
    ```
    <session-config>
    <session-timeout>1440</session-timeout>
    </session-config>
    ```
12. Save and close the files.
13. Delete all of the contents in the Tomcat work folder:
    <*BOE installation directory*>\Tomcat55\work\

14. Restart the Tomcat service:
    a. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **Central Configuration Manager**.
    b. Right-click the Apache Tomcat service and select **Start**.

Modify Universes

You must configure each universe to add a connection to your specific data source.

Follow the instructions in these tasks to modify the universes:

- Step 1: Import Universes in BOE Universe Designer on page 66
- Step 2: Create Universe Connections on page 66

Step 1: Import Universes in BOE Universe Designer

1. From the Windows **Start** menu, click **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **Designer**.
2. Log in to Universe Designer. If necessary, close the Welcome screen.
3. From the Designer **File** menu, select **Import**.
4. From the Folder drop-down list, select **\webi universes**. The Available Universes list becomes populated with the available universes.
5. If not already selected, select the **Open the selected universes** check box so that Designer opens the universes that you import.
6. Select the universe for each data source that you have. You can press Ctrl and click to select multiple universes. Do not select universes for data sources that you do not have.
   - **XD_BSM**: The universe for Business Service Management.
   - **XD_DC**: The universe for DecisionCenter.
   - **XD_FPA**: The universe for IT Analytics Financial Planning & Analysis.
   - **XD_PPM**: The universe for Project and Portfolio Management.
7. Click **OK**.
8. Click **OK** to close the Universe successfully imported message. Designer opens the imported universes.
9. Follow the instructions in Step 2: Create Universe Connections on page 66 to add a database connection to each universe.

Step 2: Create Universe Connections

Modify each universe that you imported in Step 1: Import Universes in BOE Universe Designer on page 66 to add a connection to the corresponding source database. Follow the instructions below for each universe that you imported.

- Create a connection in the Business Service Management universe on page 67
- Create a connection in the DecisionCenter universe on page 68
- Create a connection in the Financial Planning & Analysis universe on page 69

- Create a connection in the Project and Portfolio Management universe on page 70

Create a connection in the Business Service Management universe

1. From the File menu in Designer, select **XD_BSM.unv**. The Business Service Management (BSM) universe opens.
2. From the File menu, select **Parameters**.
3. Make sure that **XD_BSM** appears in the Name field.
4. Make sure that **XD_BSM_DSN** is selected in the Connection drop-down list.
5. Click **New**. The New Connection Wizard guides you through the process to create a connection.
6. Click **Next**.
7. Make sure that **Secured** is selected in the Connection Type drop-down list.
8. In the Connection Name field, type **XD_BSM_DB**.
9. In the bottom pane, select the type of RDBMS for the BSM database. If this is a Microsoft SQL Server database, select **Microsoft** > **MS SQL Server 2005** > **ODBC Drivers**. If this is an Oracle database, select **Oracle** > **Oracle 10** > **Oracle Client**.
10. Click **Next**.
11. Make sure **Use specified user name and password** is selected in the Authentication Mode drop-down list.
12. Type the user name for the BSM database.
13. Type the password for this user for the BSM database.
14. **MSSQL**: If you selected a Microsoft SQL Server database in step 9, select **XD_BSM_DSN** from the Data source name drop-down list.
    Oracle: If you selected an Oracle database in step 9, type the tnsnames value for your BSM database in the Service field.
15. Click **Test Connection** to make sure the connection works.
16. Click **Next**.
17. On the Configuration Parameters [4/5] screen, accept the default settings and click **Next**.
18. Click **Finish**.
19. Save the universe changes.
20. Export the universe to your CMS database:
    a. From the File menu, select **Export**.
    b. Select **XD_BSM** in the bottom pane.
    c. Click **OK**.

d. Click **OK** to close the Universe successfully exported message. If you need to create a connection in another universe, follow the instructions for that universe. If you do not need to modify other universes, close Designer.

Create a connection in the DecisionCenter universe

1. From the File menu in Designer, select **XD_DC.unv**. The DecisionCenter (DC) universe opens.
2. From the File menu, select **Parameters**.
3. Make sure that **XD_DC** appears in the Name field.
4. Make sure that **XD_DC_DSN** is selected in the Connection drop-down list.
5. Click **New**. The New Connection Wizard guides you through the process to create a connection.
6. Click **Next**.
7. Make sure that **Secured** is selected in the Connection Type drop-down list.
8. In the Connection Name field, type **XD_DC_DB**.
9. In the bottom pane, select the type of RDBMS for the DC database. If this is a Microsoft SQL Server database, select **Microsoft** > **MS SQL Server 2005** > **ODBC Drivers**. If this is an Oracle database, select **Oracle** > **Oracle 10** > **Oracle Client**.
10. Click **Next**.
11. Make sure **Use specified user name and password** is selected in the Authentication Mode drop-down list.
12. Type the user name for the DC database.
13. Type the password for this user for the DC database.
14. **MSSQL**: If you selected a Microsoft SQL Server database in step 9, select **XD_BSM_DSN** from the Data source name drop-down list.
    Oracle: If you selected an Oracle database in step 9, type the tnsnames value for your BSM database in the Service field.
15. Click **Test Connection** to make sure the connection works.
16. Click **Next**.
17. On the Configuration Parameters [4/5] screen, accept the default settings and click **Next**.
18. Click **Finish**.
19. Save the universe changes.
20. Export the universe to your CMS database:
    a. From the File menu, select **Export**.
    b. Select **XD_DC** in the bottom pane.
    c. Click **OK**.

d. Click **OK** to close the Universe successfully exported message. If you need to create a connection in another universe, follow the instructions for that universe. If you do not need to modify other universes, close Designer.

Create a connection in the Financial Planning & Analysis universe

1. From the File menu in Designer, select **XD_FPA.unv**. The Financial Planning & Analysis (FPA) universe opens.
2. From the File menu, select **Parameters**.
3. Make sure that **XD_FPA** appears in the Name field.
4. Make sure that **XD_FPA_DSN** is selected in the Connection drop-down list.
5. Click **New**. The New Connection Wizard guides you through the process to create a connection.
6. Click **Next**.
7. Make sure that **Secured** is selected in the Connection Type drop-down list.
8. In the Connection Name field, type **XD_FPA_DB**.
9. In the bottom pane, select **Microsoft** > **MS SQL Server 2005** > **ODBC Drivers**.
10. Click **Next**.
11. Make sure **Use specified user name and password** is selected in the Authentication Mode drop-down list.
12. Type the user name for the FPA database.
13. Type the password for this user for the FPA database.
14. From the Data source name drop-down list, select **XD_FPA_DSN**.
15. Click **Test Connection** to make sure the connection works.
16. Click **Next**.
17. On the Configuration Parameters [4/5] screen, accept the default settings and click **Next**.
18. Click **Finish**.
19. Save the universe changes.
20. Export the universe to your CMS database:
    a. From the File menu, select **Export**.
    b. Select **XD_FPA** in the bottom pane.
    c. Click **OK**.
    d. Click **OK** to close the Universe successfully exported message. If you need to create a connection in another universe, follow the instructions for that universe. If you do not need to modify other universes, close Designer.

Create a connection in the Project and Portfolio Management universe

1. From the File menu in Designer, select **XD_PPM.unv**. The Project and Portfolio Management (PPM) universe opens.
2. From the File menu, select **Parameters**.
3. Make sure that **XD_PPM** appears in the Name field. XD_PPM_DSN is selected in the Connection drop-down list.
4. Click **New**. The New Connection Wizard guides you through the process to create a connection.
5. Click **Next**.
6. Make sure that **Secured** is selected in the Connection Type drop-down list.
7. In the Connection Name field, type **XD_PPM_DB**.
8. In the bottom pane, select **Oracle** > **Oracle 10** > **Oracle Client**.
9. Click **Next**.
10. Make sure **Use specified user name and password** is selected in the Authentication Mode drop-down list.
11. Type the user name for the PPM database.
12. Type the password for this user for the PPM database.
13. In the Service field, type the tnsnames value for your PPM database.
14. Click **Test Connection** to make sure the connection works.
15. Click **Next**.
16. On the Configuration Parameters [4/5] screen, accept the default settings and click **Next**.
17. Click **Finish**.
18. Save the universe changes.
19. Export the universe to your CMS database:
    a. From the File menu, select **Export**.
    b. Select **XD_PPM** in the bottom pane.
    c. Click **OK**.
    d. Click **OK** to close the Universe successfully exported message. If you need to create a connection in another universe, follow the instructions for that universe. If you do not need to modify other universes, close Designer.

(BSM Users) Create the BSM Service Health Page

If you use HP Business Service Management (BSM) as a data source, you can add to Executive Scorecard a page to track service health. To create the Service Health page, create a new page, a new component to add to the page, and a new category so that you can organize the components you will use on the new page.

1. Log in to Executive Scorecard.
2. Click **New Page**.
3. Click **Components**.
4. In the Categories pane on the left side of the Component Gallery, click **New Category**.
5. Type a name for the category.
   For example: Service Health
6. Click **OK**. The new category appears in the Categories pane.
7. In the pane on the right side of the Component Gallery, click **Add External Component**.
8. Retrieve the URL for the BSM application. To do so, open a new Windows Internet Explorer window and type this URL:
   http://<*BSM server name*>/topaz/bam/pages/topview.jsp?customer=1&fromAgora=true
   For example: http://dc2003sql-29db.labs.peregrine.com/topaz/bam/pages/topview.jsp?customer=1&fromAgora=true
   Once you have the URL that accesses the BSM login page, copy it. Then return to Executive Scorecard.
9. In the New Component window, provide these details:
   - Name: Type a name for the new component.
     For example: Service Health
   - URL: Paste the URL that you copied in step 8.
   - Description: Type a brief description of the new component.
   - Categorize Component: If necessary, click **Categorize Component** to expand the list of categories. Select the category that you created in steps 4 - 6.

     You do not need to provide Wiring Context or URL Parameter information.
10. Click **OK**. The new component becomes available in the Component Gallery.
11. Click the new component and drag it onto the new page.
12. Click Save.
13. Type a name for the new page.
    For example: Service Health
14. Click **OK**.

15. Log off of Executive Scorecard, then log in again to view the new page that accesses BSM. You can configure single sign-on for Executive Scorecard and BSM so that you are not prompted to log in to BSM when you access the BSM Service Health page in Executive Scorecard. To configure single sign-on, see Step 1: Configure Single Sign-On for Executive Scorecard and BSM on page 73.

Configure Single Sign On

Executive Scorecard is an HP Lightweight Single Sign-On (LW-SSO) enabled application. It can be configured to make single sign-on possible between Executive Scorecard and BSM or other HP LW-SSO enabled applications.

Configuring single sign-on is optional. If you do not implement it and you use BSM as a data source, Executive Scorecard will prompt you to log in to BSM when you view the Service Health dashboard.

Note: For single sign-on to work, the same user or login must exist for Executive Scorecard and the other applications. Also, you must access Executive Scorecard from a fully qualified domain, not a localhost URL. For example: http://xd1.americas.hpqcorp.net:8080/executiveScorecard

Follow the instructions in these sections to configure single sign-on:

- Step 1: Configure Single Sign-On for Executive Scorecard and BSM on page 73
- Step 2: Add Other Domains to the List of Trusted Domains in IE on page 74

Step 1: Configure Single Sign-On for Executive Scorecard and BSM

For single sign-on to work, the same user or login must exist for Executive Scorecard and the other applications. Also, you must access Executive Scorecard from a fully qualified domain, not a localhost URL. For example: http://xd1.americas.hp.net:8080/executiveScorecard

To configure single sign-on

1. View the LW-SSO configuration information for BSM:
   a. Log in to BSM.
   b. From the Admin menu, select **Platform**.
   c. Click the **User and Permissions** tab.
   d. Click **Authentication Management**.
   e. In the Single Sign-On Configuration window, note the Token Creation Key (initString) value. For example: Xy6stqZ
2. Open **lwssofmconf.xml** with a text editor. The file is in <*Tomcat installation directory*>\common\classes
3. Change the value in the domain element to the Executive Scorecard server domain. For example:
   ```
   <lwssoValidation id="ID000001">
   <domain>americas.hp.net</domain>
   ```
4. Change the value of the initString attribute in lwssofmconf.xml to match the token creation key for BSM. For example:
   ```
   initString= "Xy6stqZ"
   ```

5. Add the domain that BSM uses as well as the domain that Executive Scorecard uses to the list of protected domains in lwssofmconf.xml. Do not use the server name. For example, if the server is xd1.americas.hpqcorp.net, the domain is americas.hpqcorp.net. Add the domains in a URL element.
   For example:
   ```
   <protectedDomains>
    <url>americas.hp.net</url>
    <url>emea.hp.net</url>
   </protectedDomains>
   ```

   Note: To enable access to Executive Scorecard content from BSM, add the Executive Scorecard domain to the Protected Domains list in Authentication Management in BSM. For more information, see your BSM documentation.

6. Change the URL in the logoutURLs element to replace **localhost** with a fully qualified domain name.
   For example:
   ```
   <logoutURLs>
    <url>http://xd1.americas.hp.net
   :8080/executiveScorecard/j_acegi_ logout</url>
   </logoutURLs>
   ```

7. Save and close lwssofmconf.xml.

8. Add the BSM and Executive Scorecard domains to the list of trusted domains in Windows Internet Explorer. See Step 2: Add Other Domains to the List of Trusted Domains in IE on page 74.

Step 2: Add Other Domains to the List of Trusted Domains in IE

If Executive Scorecard has a connection to an HP LW-SSO enabled application, such as BSM, and the application is on a different domain, Windows Internet Explorer (IE) may reject the LW-SSO cookie for that application, disabling single sign-on. To ensure that single sign-on works for HP LW-SSO enabled applications on other domains, add the other domains to the list of trusted intranet sites in IE.

1. Open Windows IE.
2. From the Tools menu, select **Internet Options**.
3. Click the **Security** tab.
4. Select **Intranet**, then click **Sites**.
5. Click **Advanced**.
6. In the **Add this website to the zone** field, type the URL for the application you want to add to the list of trusted intranet sites. To add all of the pages in a domain, type an asterisk (*) in place of the application.
   For example: *.hp.net
7. Click **Add**.

For more information, see the Windows IE Help.

Launch Executive Scorecard

Log in to Executive Scorecard and wait for all of the components load. The first time you launch Executive Scorecard, it may take some time to load the components. Click each page to let that page fully load. The data that you see in the components on each page is the sample data that is delivered with Executive Scorecard. To configure the application to use your data, follow the instructions in Clear the Sample Data on page 75 to clean out the sample data.

Clear the Sample Data

When you are ready to deploy Executive Scorecard in the production environment, use the clean all data utility to purge the sample integration data. When you run the clean all data utility, the utility removes all of the data from the Web Intelligence (Webi) reports so that the components no longer show the sample data. In addition to clearing the Webi reports, if you use Financial Planning & Analysis you must also clear the data out of the Financial Scorecard and Financial KPI Trend Components.

Follows these steps to clear all of the sample data from the Executive Scorecard components:

Step 1: Use the Clean All Data Utility

1. Back up your BusinessObjects Enterprise CMS database.
2. Double-click **clean_all_data.bat** in this directory:
   C:\Program Files\HP\Executive Scorecard\ContentPacks\clean_data
3. You can log in to Executive Scorecard to view the components without data. To view your own data in the Executive Scorecard, follow the instructions in Schedule Reports to Refresh on page 80 to refresh the Webi reports. **Do NOT refresh the reports manually**. Always use the BusinessObjects Enterprise InfoView scheduler. After the Webis refresh, the next time you log in to Executive Scorecard, the application displays your live data.
4. If you use FPA, follow the instructions in (FPA Users) Step 2: Remove Sample Data from the Financial Scorecard and Financial KPI Trend Components on page 75 to remove data from the Financial Scorecard and Financial KPI Trend components.

(FPA Users) Step 2: Remove Sample Data from the Financial Scorecard and Financial KPI Trend Components

Important: HP recommends that an experienced Xcelsius user completes this process.

The values that the components display exist in Xcelsius spreadsheets that are embedded in the components. To provide a complete set of sample data, some values are hard coded into some components. If you want to view the Executive Scorecard without any data, you can remove the sample data from these components. You do not need to remove the sample data in order to view these components with your data. Your data will overwrite the sample data.

To remove sample data from the Financial Scorecard and Financial KPI Trend components

1. From the Windows **Start** menu, click **Programs > Xcelsius**.
2. From the File menu in Xcelsius, select **Open from Platform**.
3. Log in to BusinessObjects Enterprise.
4. Remove the sample data from the Financial Scorecard component:
   a. In the Open dialog box, expand the **XD_Xcelsius_Source** folder.
   b. Select **XD_Financial_Scorecard_P.xlf**, and click **Open**.
   c. Click the **Connection** tab in the spreadsheet.
   d. Scroll to the right of the spreadsheet, and delete the data in the Total Revenue column. Do not delete the header row. Delete the values in rows 3, 4, and 5.
   e. From the Xclesius File menu, click **Export** > **SAP BusinessObjects Platform**.
   f. In the Save As dialog box, expand the **XD_Financial** folder.
   g. Select **XD_Financial_Scorecard_P**, and click **Save**. Xcelsius exports a .swf file and saves it and saves it in the BOE repository in place of the Financial Scorecard component that included the sample data.
   h. From the Xclesius File menu, select **Save to Platform**.
   i. In the Save As dialog box, expand the **XD_Xcelsius_Source** folder.
   j. Select **XD_Financial_Scorecard_P.xlf**, and click **Save**. Xcelsius saves this .xlf file in place of the Financial Scorecard component source file that included the sample data.
5. Remove the sample data from the Financial KPI Trend component:
   a. From the Xcelsius File menu, select **Open from Platform**.
   b. In the Open dialog box, expand the **XD_Xcelsius_Source** folder.
   c. Select **XD_Financial_KPI_Trend_S.xlf**, and click **Open**.
   d. Click the **Connection** tab in the spreadsheet.
   e. Scroll to the right of the spreadsheet to column N, the IT POR vs. Total Revenue column. Then scroll down to the Company Revenue section in the IT POR vs. Total Revenue column. Delete the values in the Company Revenue section in rows 164 through 214. Do not delete the Company Revenue header.
   f. From the Xclesius File menu, click **Export** > **SAP BusinessObjects Platform**.
   g. In the Save As dialog box, expand the **XD_Financial** folder.
   h. Select **XD_Financial_KPI_Trend_S**, and click **Save**. Xcelsius exports a .swf file and saves it in place of the Financial KPI Trend component that included the sample data.

i. From the Xclesius File menu, select **Save to Platform**.

j. In the Save As dialog box, expand the **XD_Xcelsius_Source** folder.

k. Select **XD_Financial_KPI_Trend_S.xlf**, and click **Save**. Xcelsius saves this .xlf file in place of the Financial KPI Trend component source file that included the sample data.

6. Close Xcelsius.
7. Log in to the Executive Scorecard application, and click **Admin**.
8. Click **Download BOE components to Tomcat server**. Executive Scorecard downloads to the Tomcat application the components that you exported to the BusinessObjects Enterprise repository.

(Users without FPA) Modify the Last Refresh Reports

If you do not use FPA, you must modify the last refresh reports for the metadata components to enable the reports to refresh with new data. If you use FPA, you do not need to complete this process.

To modify the last refresh reports

1. From the Windows **Start** menu, select **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **BusinessObjects Enterprise Java InfoView**.
2. Log in to InfoView.
3. Click **Document List**.
4. Expand **Public Folders**.
5. Find the report folders for the data sources:
   - **XD_BSM**: Contains the reports for Business Service Management.
   - **XD_DC**: Contains the reports for DecisionCenter.
   - **XD_PPM**: Contains the reports for Project and Portfolio Management.
6. Do the following for each data source that you have:
   - **BSM**:
     i. Click the **XD_BSM** folder. InfoView displays the contents of the folder in the right pane.

     ii. Right-click **XD_BSM_LastRefresh**, and select **Modify**. InfoView opens the report in the Edit Report panel.

     iii. Click **Edit Query** in the toolbar on the top left side of InfoView.

     iv. Click **Add Query**.

     v. In the Universe dialog box, select **XD_BSM** from the list of available universes, and click **OK**.

     vi. On the Data tab in the left pane, expand the **XD Dimensions** folder, then expand the **XD Metadata** folder.

     vii. Drag the **Current Year** object into the Result Objects window.

viii. Right-click the **Query 1** tab at the bottom of the report, and select **Delete Query**. Click **Yes**.

ix. Click **Run Queries** in the toolbar on the top right of InfoView.

x. In the New Query dialog box, select **Include the result object in the document without generating a table**, and click **OK**.

xi. Save and close the report.

- **DC**:
  i. Click the **XD_DC** folder. InfoView displays the contents of the folder in the right pane.
  ii. Right-click **XD_DC_LastRefresh**, and select **Modify**. InfoView opens the report in the Edit Report panel.
  iii. Click **Edit Query** in the toolbar on the top left side of InfoView.
  iv. Click **Add Query**.
  v. In the Universe dialog box, select **XD_DC** from the list of available universes, and click **OK**.
  vi. On the Data tab in the left pane, expand the **XD Dimensions** folder, then expand the **XD Metadata** folder.
  vii. Drag the **Current Year** object into the Result Objects window.
  viii. Right-click the **Query 1** tab at the bottom of the report, and select **Delete Query**. Click **Yes**.
  ix. Click **Run Queries** in the toolbar on the top right of InfoView.
  x. In the New Query dialog box, select **Include the result object in the document without generating a table**, and click **OK**.
  xi. Save and close the report.
- **PPM**:
  i. Click the **XD_PPM** folder. InfoView displays the contents of the folder in the right pane.
  ii. Right-click **XD_PPM_LastRefresh**, and select **Modify**. InfoView opens the report in the Edit Report panel.
  iii. Click **Edit Query** in the toolbar on the top left side of InfoView.
  iv. Click **Add Query**.
  v. In the Universe dialog box, select **XD_PPM** from the list of available universes, and click **OK**.
  vi. On the Data tab in the left pane, expand the **XD Dimensions** folder, then expand the **XD Metadata** folder.
  vii. Drag the **Current Year** object into the Result Objects window.
  viii. Right-click the **Query 1** tab at the bottom of the report, and select **Delete Query**. Click **Yes**.
  ix. Click **Run Queries** in the toolbar on the top right of InfoView.

x. In the New Query dialog box, select **Include the result object in the document without generating a table**, and click **OK**.

xi. Save and close the report.

7. Follow the steps in Schedule Reports to Refresh on page 80 to create a schedule for refreshing reports.

Schedule Reports to Refresh

You must schedule the Web Intelligence (Webi) reports to refresh automatically to get the most current data from your sources. However, it is important that you **only refresh the reports for the data sources that you have**. The Xcelsius components require that you use the schedule feature to properly retrieve data. Do not refresh reports manually or run them interactively to refresh them.

Follow the instructions in these sections to schedule all of the appropriate reports to refresh:

- Step 1: Schedule the Metric Reports to Refresh on page 80
- Step 2: Schedule the Metadata and KPI Reports to Refresh on page 81

Step 1: Schedule the Metric Reports to Refresh

1. From the Windows **Start** menu, select **Programs** > **BusinessObjects XI 3.1** > **BusinessObjects Enterprise** > **BusinessObjects Enterprise Java InfoView**.
2. Log in to InfoView.
3. Click **Document List**.
4. Expand **Public Folders**.
5. Find the report folders for the data sources that you have:
   - **XD_BSM**: Contains the reports for Business Service Management.
   - **XD_DC**: Contains the reports for DecisionCenter.
   - **XD_FPA**: Contains the reports for IT Analytics Financial Planning & Analysis.
   - **XD_PPM**: Contains the reports for Project and Portfolio Management.
6. Click the folder for your data source. The reports in that folder appear in the right pane. **Do not refresh reports in folders for data sources that you do not have**.
7. Schedule a report to refresh:
   a. Select a report in the right pane.
   b. Right-click and select **Schedule**.
   c. Click **Recurrence** in the left pane.
   d. From the Run object drop-down list, select a recurrence value according to how often your business needs to refresh data.
   e. Depending on the recurrence value that you choose, InfoView displays additional fields to enable you to enter specifics about when to refresh the report. Provide the information for these fields, then click **Schedule**.
8. Repeat step 7 for each report in the folder.

9. Repeat steps 5 – 7 for the report folder for each data source that you have. **Do not refresh reports in folders for data sources that you do not have**.
10. Follow the instructions in Step 2: Schedule the Metadata and KPI Reports to Refresh on page 81 to schedule the rest of the reports to refresh.

Step 2: Schedule the Metadata and KPI Reports to Refresh

Follow these instructions to set up a schedule to refresh the metadata and KPI reports. These reports are in the page folders in InfoView. Some of the reports contain data from multiple sources.

1. Click the **XD_Financial** folder. Two Webis and several Flash files appear in the right pane. The Flash files are the components that appear on the Executive Scorecard Financial page. You do not need to do anything with these files. The Webis in this folder need to be scheduled to refresh depending on the data sources that you have.
2. Select the **XD_Financial_Metadata** report and schedule it to refresh:
   a. Right-click and select **Schedule**.
   b. Click **Recurrence** in the left pane.
   c. From the Run object drop-down list, select a recurrence value according to how often your business needs to refresh data.
   d. Depending on the recurrence value that you choose, InfoView displays additional fields to enable you to enter specifics about when to refresh the report. Provide the information for these fields, then click **Schedule**.
3. Do **ONE** of the following:
   - **If you use BOTH FPA and PPM as data sources**: Select the **XD_Financial_KPI** report and schedule it to refresh by following steps a – d in step 2.
   - **If you use FPA and do NOT use PPM**, follow these steps:
     i. Right-click **XD_Financial_KPI** and select **Modify**. InfoView opens the report in the Edit Report panel.
     ii. Right-click the **Report 4** tab at the bottom of the report, and select **Delete Report**. Click **Yes**.
     iii. Click **Edit Query** in the toolbar on the top left side of InfoView.
     iv. Right-click the **Query 4** tab at the bottom of the report, and select **Delete Query**. Click **Yes**.
     v. Click **Run Queries** in the toolbar on the top right of InfoView. InfoView refreshes the report.
     vi. Click **Save** to save your changes, and then close the report.
     vii. Select the **XD_Financial_KPI** report and schedule it to refresh by following steps a – d in step 2.
   - **If you use PPM and do NOT use FPA**, follow these steps:
     i. Right-click **XD_Financial_KPI** and select **Modify**. InfoView opens the report in the Edit Report panel.
     ii. Right-click the **Report 1** tab at the bottom of the report, and select **Delete Report**. Click **Yes**.

iii. Right-click the **Report 2** tab at the bottom of the report, and select **Delete Report**. Click **Yes**.

iv. Right-click the **Report 3** tab at the bottom of the report, and select **Delete Report**. Click **Yes**.

v. Click **Edit Query** in the toolbar on the top left side of InfoView.

vi. Right-click the **Query 1** tab at the bottom of the report, and select **Delete Query**. Click **Yes**.

vii. Right-click the **Query 2** tab at the bottom of the report, and select **Delete Query**. Click **Yes**.

viii. Right-click the **Query 3** tab at the bottom of the report, and select **Delete Query**. Click **Yes**.

ix. Click **Run Queries** in the toolbar on the top right of InfoView. InfoView refreshes the report.

x. Click **Save** to save your changes, and then close the report.

xi. Select the **XD_Financial_KPI** report and schedule it to refresh by following steps a – d in step 2.

4. Click the **XD_Program** folder. Two Webis and several Flash files appear in the right pane. The Flash files are the components that appear on the Executive Scorecard Program page. You do not need to do anything with these files. The Webis in this folder need to be scheduled to refresh depending on the data sources that you have.
5. Select the **XD_Program_Metadata** report and schedule it to refresh:
   a. Right-click and select **Schedule**.
   b. Click **Recurrence** in the left pane.
   c. From the Run object drop-down list, select a recurrence value according to how often your business needs to refresh data.
   d. Depending on the recurrence value that you choose, InfoView displays additional fields to enable you to enter specifics about when to refresh the report. Provide the information for these fields, then click **Schedule**.
6. **If you use PPM as a data source**, select the **XD_Program_KPI** report and schedule it to refresh by following a – d in the previous step. **If you do NOT use PPM, do NOT refresh XD_Program_KPI**.
7. Click the **XD_Service** folder. Two Webis and several Flash files appear in the right pane. The Flash files are the components that appear on the Executive Scorecard Service page. You do not need to do anything with these files. The Webis in this folder need to be scheduled to refresh depending on the data sources that you have.
8. Select the **XD_Service_Metadata** report and schedule it to refresh:
   a. Right-click and select **Schedule**.
   b. Click **Recurrence** in the left pane.
   c. From the Run object drop-down list, select a recurrence value according to how often your business needs to refresh data.
   d. Depending on the recurrence value that you choose, InfoView displays additional fields to enable you to enter specifics about when to refresh the report. Provide the information for these fields, then click **Schedule**.

9. Do **ONE** of the following:
   - **If you use BOTH BSM and DC as data sources**, select the **XD_Service_KPI** report and schedule it to refresh by following steps a – d in step 8.
   - **If you use DC and do NOT use BSM**, follow these steps:
     i. Right-click **XD_Service_KPI** and select **Modify**. InfoView opens the report in the Edit Report panel.
     ii. Right-click the **Report 5** tab at the bottom of the report, and select **Delete Report**. Click **Yes**.
     iii. Right-click the **Report 2** tab at the bottom of the report, and select **Delete Report**. Click **Yes**.
     iv. Click **Edit Query** in the toolbar on the top left side of InfoView.
     v. Right-click the **Query 6** tab at the bottom of the report, and select **Delete Query**. Click **Yes**.
     vi. Right-click the **Query 7** tab at the bottom of the report, and select **Delete Query**. Click **Yes**.
     vii. Click **Run Queries** in the toolbar on the top right of InfoView. InfoView refreshes the report.
     viii. Click **Save** to save your changes, and then close the report.
     ix. Select the **XD_Service_KPI** report and schedule it to refresh by following steps a – d in step 8.
   - **If you use BSM and do NOT use DC**, follow these steps:
     i. Right-click **XD_Service_KPI** and select **Modify**. InfoView opens the report in the Edit Report panel.
     ii. Right-click the **Report 3** tab at the bottom of the report, and select **Delete Report**. Click **Yes**.
     iii. Right-click the **Report 4** tab at the bottom of the report, and select **Delete Report**. Click **Yes**.
     iv. Click **Edit Query** in the toolbar on the top left side of InfoView.
     v. Right-click the **Query 8** tab at the bottom of the report, and select **Delete Query**. Click **Yes**.
     vi. Right-click the **Query 9** tab at the bottom of the report, and select **Delete Query**. Click **Yes**.
     vii. Click **Run Queries** in the toolbar on the top right of InfoView. InfoView refreshes the report.
     viii. Click **Save** to save your changes, and then close the report.
     ix. Select the **XD_Service_KPI** report and schedule it to refresh by following steps a – d in step 8.
10. Log out of InfoView and close the application.

(DC Users) Populate Dates in Service KPI Trend when BSM is Not Available

Important: HP recommends that an experienced Xcelsius user completes this process.

The Service Scorecard and Service KPI Trend components on the Service page use two key performance indicators (KPIs) whose data originates in DecisionCenter (DC) and two KPIs whose data originates in Business Service Management (BSM). If you use DC without BSM, you must make some changes to the Service KPI Trend component to populate dates when there is no data for the BSM KPIs. In a scenario where BSM is present without DC, you do not need to modify the component.

Follow these instructions to modify the Service KPI Trend component to include dates when BSM data is not available:

1. From the Windows **Start** menu, click **Programs > Xcelsius**.
2. From the File menu in Xcelsius, select **Open from Platform**.
3. Log in to BusinessObjects Enterprise.
4. Expand the **XD_Xcelsius_Source** folder.
5. Select **XD_Service_KPI_Trend_S.xlf** and click **Open**.
6. Click the **Info** tab in the component spreadsheet. In the Connection Info table, type the Antivia URL. This URL will have the same server name and port number as the Executive Scorecard application.
   For example: http://xd1.secure.hp.com:8080
7. If necessary, open the Object Browser pane. From the View menu, select **Object Browser**.
8. In the Object Browser pane, select **Antivia Connect 1**. Xcelsius displays the properties for Antivia Connect 1 in the Properties pane on the right side of the window.
9. In the Properties pane, click **Check URL** to make sure there are no errors. Xcelsius will not display any messages if the check is successful.
10. In the **Design time connection** area, type the user name and password that you used to log in to BusinessObjects Enterprise, and then click **Connect**. The Design time connection changes from Design time connection: Not connected to Design time connection: Connected.
11. In the Object Browser pane, right-click **Antivia Table 1**, and select **Delete**.
12. Right-click **Antivia Table 5**, and select **Delete**.
13. Right-click **Antivia Table 4**, and select **Properties**. Xcelsius displays the properties for Antivia Table 4 in the Properties pane.
14. In the Properties pane, click **Report**.
15. Click the **Content** tab.
16. Change the order of the objects in the Available Objects area so that Qualified Month is first and Incident Response Time to SLA is second. Make sure that the date order for Qualified Month is descending.
17. Click the **Data** tab.

18. Click the icon next to the gray **Insert data into** field, and then type **Connection!$K$18:$L$53** in the Select a range dialog box.
19. Click the icon next to the gray **Insert Headings Into** field, and then type **Connection!$K$2:$L$2** in the Select a range dialog box.
20. In the Object Browser pane, right-click **Antivia Table 8**, and select **Properties**. Xcelsius displays the properties for Antivia Table 8 in the Properties pane.
21. In the Properties pane, click **Report**.
22. Click the **Content** tab.
23. Change the order of the objects in the Available Objects area so that Qualified Month is first and Achieved SLA Count is second. Make sure that the date order for Qualified Month is descending.
24. Click the **Data** tab.
25. Click the icon next to the gray **Insert data into** field, and then type **Connection!$K$125:$L$160** in the Select a range dialog box.
26. In the Object Browser pane, right-click **Antivia Table 9**, and select **Properties**. Xcelsius displays the properties for Antivia Table 9 in the Properties pane.
27. Click the **Content** tab.
28. Change the order of the objects in the Available Objects area so that Qualified Month is first and Total SLA Count is second. Make sure that the date order for Qualified Month is descending.
29. Click the **Data** tab.
30. Click the icon next to the gray **Insert data into** field, and then type **Connection!$K$179:$L$214** in the Select a range dialog box.
31. Click the **Connection** tab in the spreadsheet for the component.
32. Select all of the contents in column **O**. Right-click and select **Clear Contents**.
33. In column range Connection!$L$56:$L$106, change the goal to **90**.
34. From the Xclesius File menu, click **Export > SAP BusinessObjects Platform**.
35. In the Save As dialog box, expand the **XD_Service** folder.
36. Select **XD_Service_KPI_Trend_S**, and click **Save**. Xcelsius exports a .swf file and saves it in place of the existing Service KPI Trend component.
37. If you want to save this source file, from the Xclesius File menu, select **Save to Platform**.
38. In the Save As dialog box, expand the **XD_Xcelsius_Source** folder.
39. Select **XD_Service_KPI_Trend_S.xlf**, and click **Save**. Xcelsius saves this .xlf file in place of the existing Service KPI Trend component source file.
40. Close Xcelsius.
41. Log in to the Executive Scorecard application, and click **Admin**.

42. Click **Download BOE components to Tomcat server**. Executive Scorecard downloads to the Tomcat application the component that you exported to the BusinessObjects Enterprise repository.

Customize the Components

You can customize the components to change settings such as the goals, thresholds, and company revenue so that the values are appropriate for the business.

To customize components

1. From the Windows **Start** menu, click **Programs > BusinessObjects XI 3.1 > BusinessObjects Enterprise > Xcelsius**.
2. From the File menu in Xcelsius, select **Open from Platform**.
3. Log in to BusinessObjects Enterprise.
4. In the Open dialog box, expand the **XD_Xcelsius_Source** folder. This folder contains all of the component source files.
5. Select the .xlf file that you want to customize, and click **Open**. To view a list of the source file names that correspond to each component title in the Executive Scorecard application, see Component Naming Conventions on page 88.
6. In the .xlf file, click the **Info** tab and review the information about the component.
7. Click the **Connection** tab. In cells with a white background, you can edit the values that you want to change. Do **NOT** change the values in cells with a yellow or green background color. Values in green cells come from your data source, and values in yellow cells get calculated from data in other cells.
8. When you are finished making changes, from the Xclesius File menu, click **Export > SAP BusinessObjects Platform**.
9. In the Save As dialog box, find the .swf file with the same file name as the .xlf file you are exporting. Select the .swf file, and click **Save**. Xcelsius exports a .swf file and saves it in the BOE repository in place of the previous version of the component.
10. From the Xclesius File menu, select **Save to Platform**.
11. In the Save As dialog box, navigate to the folder that contains this file, and click **Save**. Xcelsius saves this .xlf file in place of the source file for this component.
12. Repeat the steps in this section to customize any additional components, and then close Xcelsius.
13. Log in to the Executive Scorecard application, and click **Admin**.
14. Click **Download BOE components to Tomcat server**. Executive Scorecard downloads to the Tomcat application the .swf files for the components that you exported to the BusinessObjects Enterprise repository in step 9.

A Component Reference Information

This appendix provides information about the Executive Scorecard component names, associated Web Intelligence reports, and data sources.

Component Naming Conventions

This section provides a list of each out-of-box component by source name. It lists the default page for the component, and it also provides the name for the component as it appears in the Component Gallery. For information about the corresponding data sources and Web Intelligence reports for the components, see Component Data Sources on page 91.

Some components are wired so that they can interact with each other on a page. For example, on the Financial page, if you select a key performance indicator (KPI) on the Financial Scorecard (XD_Financial_Scorecard_P) component, the Financial KPI Trend (XD_Financial_KPI_Trend_S) component displays information related to that KPI. The Financial Scorecard component and the Financial KPI Trend components are wired so that the Financial Scorecard component publishes information to the Financial KPI Trend component. And the Financial KPI Trend component is wired to subscribe to the Financial Scorecard component.

Component file names are appended with the following values to indicate whether the component is a subscriber, publisher, or a standalone component:

- **_S**: The component currently subscribes to another component or is configured to be a subscriber in the future.
- **_P**: The component currently publishes to another component.
- **_N**: The component is a standalone component. It is not wired to subscribe or publish to other components.

Source File Name and Component Title as Shown on Default Page	Component Gallery Name	Default Page
XD_ActualVsPlannedCost_Vertical_S Actual vs. Planned Cost for FY2010 (x100,000)	Actual vs. Planned Cost (Subscriber)	Financial, Summary
XD_DiscVsNonDiscCost_Pie_S Discretionary vs. Non-Discretionary for FY2010 (x100,000)	Disc vs. NonDisc Cost (Subscriber)	Financial, Summary
XD_CapexVsOpexCost_Pie_S Capex vs. Opex for FY2010 (x100,000)	Capex vs. Opex Cost (Subscriber)	Financial, Summary
XD_DepartmentActualVsPlan_Bullet_N Actual vs. Planned Costs Top 5 Organizations	Actual vs. Planned by Organizations Top 5	Financial

Source File Name and Component Title as Shown on Default Page	Component Gallery Name	Default Page
XD_Financial_Scorecard_P No title	Financial Scorecard (Publisher)	Financial
XD_Financial_KPI_Trend_S No title	Financial KPI Trend (Subscriber)	Financial
XD_Financial_Metadata_N Financial Dashboard	Financial Metadata	Financial
XD_OverallYTDProjectHealth_HorizontalStack_N Project Health for Active Porjects	Project Health for Active Projects	Program, Summary
XD_ProgramActualVsPlanned_Bullet_N Actual vs. Planned Cost Top 5 Programs	Actual vs. Planned by Program Top 5	Program
XD_ProjectHealthByRegion_Top5_HorizontalStack_N Project Health Top 5 Regions	Project Health by Region Top 5	Program
XD_SpendingbyBO_Pie_S Budget Allocation by Business Objective	Budget Alloc by Business Objective (Subscriber)	Program
XD_Program_Scorecard_P No title	Program Scorecard (Publisher)	Program
XD_Program_KPI_Trend_S No title	Program KPI Trend (Subscriber)	Program
XD_Program_Metadata_N Program Dashboard	Program Metadata	Program
XD_MonitoredAvailability_Pie_S Monitored Availability to SLA	Monitored Availability (Subscriber)	Service
XD_SLABreached_Vertical_S Reported Exceptions to SLA	Reported Exceptions to SLA (Subscriber)	Service
XD_SLAIncidentResponseTime_Vertical_S Incident Response Time to SLA	Incident Response Time to SLA (Subscriber)	Service
XD_ServiceActualVsPlanned_Bullet_N Actual vs. Planned Cost Top 5 Services	Actual vs. Planned by Services Top 5	Service
XD_Service_Scorecard_P No title	Service Scorecard (Publisher)	Service
XD_Service_KPI_Trend_S No title	Service KPI Trend (Subscriber)	Service
XD_Service_Metadata_N Service Dashboard	Service Metadata	Service

Source File Name and Component Title as Shown on Default Page	Component Gallery Name	Default Page
XD_ProjActualVsPlannedCost_Vertical_S Actual vs. Planned Cost Projects for FY2010 (x100,000)	Actual vs. Planned by Project (Subscriber)	Summary
XD_ServicePerformanceAnalysis_Sparkline_N Service Performance Analysis	Service Performance Analysis	Summary
XD_ServiceLevelAchievementOvertime_ StackedColumn_S Monitored Availability to SLA	Monitored Availability to SLA (Subscriber)	Summary
XD_Summary_Metadata_N Summary Dashboard	Summary Metadata	Summary

Component Data Sources

The table below lists the corresponding data sources and associated Web Intelligence (Webi) reports for each Executive Scorecard component. For information about component naming conventions and Component Gallery names, see Component Naming Conventions on page 88.

Financial Page

Component	Source	Associated Webi Report
XD_ActualVsPlannedCost_Vertical_S	FPA	XD_FPA_ActualCost
		XD_FPA_PlannedCost
XD_DiscVsNonDiscCost_Pie_S	FPA	XD_FPA_Discretionary
		XD_FPA_Non_Discretionary
XD_CapexVsOpexCost_Pie_S	FPA	XD_FPA_Opex
		XD_FPA_Capex
XD_DepartmentActualVsPlan_Bullet_N	FPA	XD_FPA_ActualvsPlan
XD_Financial_Scorecard_P	FPA and PPM	XD_Financial_KPI: FPA Tab 1: Financial Control FPA Tab 2: Innovation Delivery PPM Tab 4: Unhealthy Budget Risk
	FPA	XD_FPA_ActualCost
		XD_FPA_BusinessServiceActualCost
XD_Financial_KPI_Trend_S	FPA and PPM	XD_Financial_KPI: FPA Tab 1: Financial Control FPA Tab 2: Innovation Delivery PPM Tab 4: Unhealthy Budget Risk
	FPA	XD_FPA_Discretionary
		XD_FPA_ActualCost
		XD_FPA_PlannedCost
		XD_FPA_BusinessServiceActualCost
		XD_Financial_Metadata
XD_Financial_Metadata_N	FPA and PPM	XD_Financial_Metadata

Program Page

Component	Source	Associated Webi Report
XD_OverallYTDProjectHealth_HorizontalStack_N	PPM	XD_PPM_TotalProjectCount
XD_ProgramActualVsPlanned_Bullet_N	FPA	XD_Actual_vs_Plan_Top_Programs
XD_ProjectHealthByRegion_Top5_HorizontalStack_N	PPM	XD_PPM_ RegionProjectHealthByBudget
XD_SpendingbyBO_Pie_S	PPM	XD_PPM_BudgetofBOProjects
XD_Program_Scorecard_P	PPM	XD_Financial_KPI: Tab 4: Unhealthy Budget Risk
		XD_Program _KPI: Tab 3: % Healthy Projects
		XD_BusinessObjective_ProjectCount: Tab 3: Projects aligned to Business Objectives
	FPA	XD_FPA_ProjectActualvsPlan
XD_Program_KPI_Trend_S	PPM	XD_ Program _KPI: Tab 3: % Healthy Projects
		XD_Financial_KPI: Tab 4: Unhealthy Budget Risk
		XD_BusinessObjective_ProjectCount Tab 1: Total Project Count Tab 3: % Project Aligned to Business Objectives
	FPA	XD_Summary_ProjectActualCost
		XD_Summary_ProjectPlannedCost
		XD_FPA_ProjectActualvsPlan
XD_Program_Metadata_N	PPM and FPA	XD_Program_Metadata

Service Page

Component	Source	Associated Webi Report
XD_MonitoredAvailability_Pie_S	BSM	XD_BSM_Monitored_Availibility
XD_SLABreached_Vertical_S	DC	XD_DC_AvailabilitySLABreachCount_ AvailabilitySLATotalCount: Tab 1: Breached SLA Count Tab 2: Total SLA Count
XD_SLAIncidentResponseTime_Vertical_S	DC	XD_DC_IncidentResponseTime: Tab 1: Achieved SLA Count Tab 2: Total SLA Count
XD_ServiceActualVsPlanned_Bullet_N	FPA	XD_Actual_vs_Plan_Top_Services
XD_Service_Scorecard_P	BSM and DC	XD_Service_KPI: BSM Tab 1: Service Avail % BSM Tab 2: Service Response Time % DC Tab 3: % SLA Avail Breached DC Tab 4: % SLA Response Time Achieve
XD_Service_KPI_Trend_S	BSM and DC	XD_Service_KPI: BSM Tab 1: Service Avail % BSM Tab 2: Service Response Time % DC Tab 3: % SLA Avail Breached DC Tab 4: % SLA Response Time Achieve
XD_Service_Metadata_N	BSM and DC	XD_Service_Metadata

Summary Page

Component	Source	Associated Webi Report
XD_ActualVsPlannedCost_Vertical_S	FPA	XD_FPA_ActualCost
		XD_FPA_PlannedCost
XD_DiscVsNonDiscCost_Pie_S	FPA	XD_FPA_Discretionary
		XD_FPA_Non_Discretionary
XD_CapexVsOpexCost_Pie_S	FPA	XD_FPA_Opex
		XD_FPA_Capex
XD_ProjActualVsPlannedCost_Vertical_S	FPA	XD_Summary_ProjectActualCost
		XD_Summary_ProjectPlannedCost
XD_ServicePerformanceAnalysis_Sparkline_N	FPA	XD_FPA_BusinessServiceActualCost
		XD_FPA_BusinessServicePlannedCost
	DC	XD_DC_%SLAAchieved
	BSM	XD_BSM_%SLABreached
XD_ServiceLevelAchievementOvertime_ StackedColumn_S	BSM	XD_BSM_SLACountsCategorization
XD_Summary_Metadata_N	FPA, PPM, BSM, and DC	XD_Summary_Metadata