

Server Installation Guide
SAP BusinessObjects Strategy Management 7.5 Series

Target Audience

- Technology Consultants
- System Administrators

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Document History



CAUTION

Before you start the implementation, make sure you have the latest version of this document. You can find the latest version on SAP Service Marketplace at `http://service.sap.com/instguidesEPM-STM` → *SAP BusinessObjects Strategy Management*.

The following table provides an overview on the most important document changes:

Version	Date	Description
1.0	2009-04-17	First version.
1.1	2009-04-22	Updated Application Server requirements. Added step to restart SAP NetWeaver CE after deploying the Software Component Archive.
1.2	2009-06-26	Updated post-installation steps for Interactive Publisher to describe the steps to skip if running the JPIP version of Interactive Publisher. Added references to the External Data Loader.
1.3	2009-07-10	Updated system requirements and post-installation configuration steps for Interactive Publisher to include changes for JPIP.
1.4	2009-07-27	Updated installation topics to make the installation of JPIP on Linux/UNIX clearer.
1.5	2009-08-10	Change the SAP NetWeaver CE 7.1 SP06 (min) requirement to be strictly SAP NetWeaver CE 7.1 SP06.
1.6	2009-08-28	Reworded text about deploying on a UNIX/Linux server and running the Java (JPIP) version of Interactive Publisher. The text now states that Interactive Publisher must be installed on a Windows system rather than Windows server. Added section about setting environment variables and creating Link IDs in the section about post-installation steps for Application Server.
2.0	2009-10-30	Added information about new IBM DB2 support for SAP NetWeaver CE System Database.
2.1	2009-12-15	Added new chapter about the Java System Properties used by the strategy management application in SAP NetWeaver.
2.2	2010-01-04	Added Internet Explorer 8 browser support in Interactive Publisher requirements section.

Version	Date	Description
2.3	2010-01-06	Added a description of the `HelpLocation` Java System Property.
2.4	2010-02-18	Corrected the name of the `EAValueAuditFlag` Java System Property.
2.5	2010-02-22	Corrected the information about the `StrategyGroup` Java System Property
3.0	2010-05-14	Changed the default charting system to CVOM instead of IGS for release 7.5 SP06
3.1	2010-07-12	Added a note saying that the value for the `StrategyGroup` Java System Property is case-sensitive. The value *strategy* must have the same case in the Java System Property as it does in SAP NetWeaver UME.
3.2	2010-10-22	Updated documentation to show support for the Java EE component of SAP NetWeaver CE 7.2, in addition to 7.1 SP06. In addition, the new `MaxUsersLimit` Java System Property is documented.
4.0	2011-02-14	Updated documentation to show support for Windows server 2008 R2 in version 7.5 SP08 of SAP BusinessObjects Strategy Management. Application Server users running Windows server 2008 R2 must download the Winhelp program from Microsoft to run Application Server Help.
4.1	2011-05-10	Changed a refrence of secWindowsAD to secWinAD.
4.2	2011-05-25	Added topic about specifying fonts for PDFs when using a Linux/UNIX server.
4.4	2012-03-06	Added more information about specifying the fonts to use in PDFs on Linux/UNIX.
4.5	2012-12-04	Updated information about MaxDB.

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1 Introduction

SAP BusinessObjects Strategy Management is a comprehensive operational performance management software framework. The strategy management application includes software components for strategy and planning; initiative management and prioritization; scorecards; dashboards; and reports and ad hoc analysis.

The strategy management application allows users to manage their strategy and tie it to execution. Users can automate and make more effective the process of setting goals, managing the initiatives to drive the success of the goals, and track and manage metrics to measure the organization's performance toward achieving its goals.

1.1 About this Document

This guide contains steps to plan, prepare, and install Application Server and Interactive Publisher, and deploy the Software Component Archive in SAP NetWeaver.

System administrators and technical consultants can use this guide to install the following components that make up Strategy Management:

- **Application Server** stores the quantitative data for the scorecard, dashboard, reports and ad hoc components within Application Server. Application Server is a highly scalable, time-intelligent multidimensional OLAP engine. Application Server typically operates in a multidimensional mode (MOLAP), but can also operate in a Relational OLAP (ROLAP) or Hybrid OLAP (HOLAP) mode as needed to satisfy the data requirements of the system.
- **Interactive Publisher** is the middle-tier components including authorization, business logic, data access, email, data conversion, request workflow processing. The basic flow of the application is based on a model-view-controller architecture common to most standard Web applications.
- **Software Component Archive (SCA)** contains the database/dictionary for the SAP NetWeaver System database.

  The SCA has CVOM embedded for charting in the application. The application is set up to use CVOM by default. Optionally, you can use SAP IGS for charting, which is embedded in the SAP NetWeaver installation. For information about changing to IGS, see the Configuration Guide to change the appropriate Java System Property related to charting.

  The SCA is made up of SDAs and one of these is a `strategymanagementdic` SDA which contains all the CPMS_ tables and table definitions. They have no data in them until you import bootstrap.zip or import.zip. The SDA contains middle tier logic required by the applications.

The strategy management application uses the open source iTEXT Java library classes for generating read-only, platform-independent PDF documents containing text, lists, tables and images. The iTEXT source code is available for download under the Mozilla Public License 1.0.

Constraints

This guide does not state the supported versions of databases, operating systems, and platforms.
This guide does not explain how to configure the software. Configuring is a crucial step to completing the initial implementation. Proper testing of the installation cannot occur until configuration occurs. For information about configuring the software, see the *Server Configuration Help for SAP BusinessObjects Strategy Management* and the *Client Configuration Help for SAP BusinessObjects Strategy Management*.
This guide does not explain how to install the integrated SAP systems or SAP BusinessObjects Enterprise system. For information about these installations, see the appropriate installation guide on SAP Service Marketplace.
This guide does not explain how to install or configure Excel Add-In or Diagram Manager. For information about these installations and configurations, see the *Client Installation Guide for SAP BusinessObjects Strategy Management Excel Add-In* and the *Client Installation Guide for SAP BusinessObjects Strategy Management Diagram Manager*.
This guide does not explain how to download the External Data Loader spreadsheet. For information about downloading the spreadsheet, configuring the strategy management application to use the External Data Loader, and using the External Data Loader, see the *External Data Loader User's Guide*.
The strategy management guides are located on SAP Service Marketplace at `http://service.sap.com/instguidescpm-stm` → *SAP BusinessObjects Strategy Management*.

1.2 Before You Start

The following sections provide information about:

- SAP Notes for the Installation
- Information Available on SAP Service Marketplace
- Naming Conventions

1.2.1 SAP Notes for the Installation

You must read the following SAP Notes before you start the installation. These SAP Notes contain the most recent information on the installation, as well as corrections to the installation documentation. Make sure that you have the up-to-date version of each SAP Note, which you can find in the SAP Service Marketplace at the Internet address:
`http://service.sap.com/notes`

SAP Note Number	Title
1284737	Central Note: SAP BusinessObjects Strategy Management 7.5 SP01
1284823	Restrictions Note: SAP BusinessObjects Strategy Management 7.5 Series
1347610	Central Note: SAP BusinessObjects Strategy Management 7.5 SP02

1.2.2 Information Available in SAP Service Marketplace

Information on the following areas is available in SAP Service Marketplace at:

`http://service.sap.com/instguidesCPM-STM` → *SAP BusinessObjects Strategy Management*

Description	Title
Steps to configure the installed components on the server. Performed immediately after installation.	*Server Configuration Help for SAP BusinessObjects Strategy Management*
Steps for end-users to configure their browsers to run the strategy management application. Performed after the system has been configured on the server.	For information, see *Startup Requirements* in the SAP BusinessObjects Strategy Management section of the SAP Library. Go to `http://help.sap.com/epm` → *Strategy Management* → *SAP BusinessObjects Strategy Management 7.5* → *Application Help* → *Startup Requirements*.
Steps for the client installation of Excel Add-In	*Client Installation Guide for SAP BusinessObjects Strategy Management Excel Add-In*
Steps for the client installation of Diagram Manager	*Client Installation Guide for SAP BusinessObjects Strategy Management Diagram Manager*
Steps to download, configure, and use External Data Loader	*External Data Loader User's Guide*
Interactive Publisher operations Application Component operations	*Administrator's Guide for SAP BusinessObjects Strategy Management Interactive Publisher and Application Components*
Application Server operations	*Administrator's Guide for SAP BusinessObjects Strategy Management Application Server*
Steps to upgrade from one version of SAP BusinessObjects Strategy Management 7.5 to the latest version	*Server Upgrade Guide for the SAP BusinessObjects Strategy Management 7.5 Series*
Steps to upgrade from the SAP Strategy Management 7.0 series to the current release of SAP BusinessObjects Strategy Management	*Server Upgrade Guide for the SAP Strategy Management 7.0 SP04 Min Series to the SAP BusinessObjects Strategy Management 7.5 Series*
Master Guide	*Master Guide for SAP BusinessObjects Strategy Management*
Security	*Security Guide for SAP BusinessObjects Strategy Management*

1.2.3 Naming Conventions

In this documentation, the following naming conventions apply:

Variables	Description
<nwce_server>:<port>	Server name or IP address and port where SAP NetWeaver CE is installed and strategy management application components are deployed

2 Planning

2.1 Installation Considerations

The strategy management installation has some considerations about where to install certain components and which components to install first.
Part of the installation occurs on server machines and part occurs on client machines.

Prerequisites

The following installations must occur before installing the strategy management components:

- SAP BusinessObjects Enterprise (Optional)
- SAP NetWeaver CE System installations (Required)
- Other SAP systems.
  For information, see *Application Component Requirements* [page 15] .

For information about how these SAP systems are integrated with the strategy management application, see the *Master Guide for SAP BusinessObjects Strategy Management* located on SAP Service Marketplace at http://service.sap.com/instguidescpm-stm → *SAP BusinesObjects Strategy Management*.

Features

Once the SAP BusinessObjects Enterprise and SAP NetWeaver CE and other systems are installed, you can install the server components of strategy management.
When planning the strategy management installation, you must follow certain guidelines for choosing the servers on which to install the server components. For information, see the section *System Landscape* in the *Master Guide for SAP BusinessObjects Strategy Management*.
After the server components are installed, you can distribute the client installations to any user who requires these installations:

- Application Server.
  For information about whether you should install Application Server on a client machine, see the section *System Landscape* in the *Master Guide for SAP BusinessObjects Strategy Management* located on SAP Service Marketplace at http://service.sap.com/instguidescpm-stm → *SAP BusinesObjects Strategy Management*.
- Excel Add-In. See the *Client Installation Guide for SAP BusinessObjects Strategy Management Excel Add-In*.
- Diagram Manager. See the *Client Installation Guide for SAP BusinessObjects Strategy Management Diagram Manager*.

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3 Preparation

3.1 System Requirements

Contact your strategy management representative for specific machine size, disk space, and memory requirements.

3.1.1 Application Component Requirements

The Application Components consist of a deployed Software Component Archive (SCA) on SAP NetWeaver CE.

To run Applications Components as a deployed SCA file, you need the following SAP systems installed:

- (Required) Java EE component of SAP NetWeaver CE 7.1 SP06 or 7.2 is installed and running on one of the following:
  Microsoft Windows 2003 or 2008 Server (64-bit)
  AIX 5.3 or 6.1 (64-bit)
  HP-UX 11.23/IA64 or 11.31/IA64 (64-bit)
  Solaris/SPARC 10 (64-bit)
  Solaris/X64 10 (64-bit)
  Linux SUSE SLS9/X86_64 (64-bit)
  Linux SUSE SLES10/IA64 (64-bit)
  Linux SUSE SLES10/Power (64-bit)
  Linux REDHAT EL4/X86_64 (64-bit)
  Linux REDHAT EL5/X86_64 (64-bit)
  SAP NetWeaver CE is used to configure the properties of Application Components and trace and log Application Components and serves as a Web server. It may also be used to maintain users. As part of the SAP NetWeaver installation, SAP Scheduler is installed and running on the SAP NetWeaver CE server. SAP Scheduler is used for scheduling alert notifications in the Administrator. This component is part of the SAP NetWeaver CE installation.
- (Required) Either SAP Internet Graphics Server (IGS) which is embedded in the SAP NetWeaver CE installation or CVOM which is embedded in the strategy management installation.
  Since both packages are installed automatically as embedded items, you can use either system without further installation. The strategy management application uses CVOM by default. Optionally, you can configure the system to use IGS during the configuration process. For

information, see the *Server Configuration Guide for SAP BusinessObjects Strategy Management* on SAP Service Marketplace.

- If you want to look at the tables in the SAP NetWeaver CE System database where strategy management application data is stored, you need a tool for client access to the system database. For example, if you want to look at the tables in a MaxDB database, you need MaxDB Database Studio installed on your client with access to the SAP NetWeaver CE server.
- If you are using the Entry and Approval component, the Cube Builder component, or you are integrating SAP BusinessObjects Risk Management data or SAP BusinessObjects Planning and Consolidation data into the application, one of the following is required:
  - If using MaxDB as the system database to store strategy management application data, the 32-bit ODBC drivers for MaxDB are installed on the Windows server where Application server is installed.

    If using MaxDB on a 64–bit system, then you must install the MaxDB Application Runtime Package to obtain the required 32–bit ODBC drivers. The 32-bit ODBC drivers are not included in version 7.7 and higher of the 64-bit MaxDB installs. To obtain the required 32-bit ODBC drivers, download and install the "MAXDB Application Runtime Package" following the instructions in SAP Note 1575053.
  - If you are using SQL Server as your system database, the 32-bit ODBC drivers for SQL Server are installed on the Windows server where Application server is installed.
  - If you are using Oracle as your system database, the 32-bit client software for Oracle is installed on the Windows server where Application server is installed.
  - If you are using IBM DB2 as your system database, the 32-bit client software for IBM DB2 is installed on the Windows server where Application server is installed.
- (Optional) SAP Scheduler Administrator is installed and running on the SAP NetWeaver server. Use the Scheduler Administrator to view schedule task details and exclude a task from execution.
- (Optional) One of the following systems from SAP BusinessObjects Enterprise:
  SAP BusinessObjects User Management System – provides a user management system for adding and maintaining users of the strategy management application in SAP BusinessObjects Enterprise.
  SAP BusinessObjects XI r3.1 – provides the full version of SAP BusinessObjects XI, which is a centralized user management and administration facility for all applications integrated into the SAP BusinessObjects Enterprise platform. Use this system to map users and groups from third-party authentication systems such as LDAP, SAP, and Windows NT, create your own users and groups, and access other SAP BusinessObjects Enterprise applications using Single Sign-On.

  NOTE

  If using the SAP BusinessObjects Enterprise to maintain users, you cannot use SAP NetWeaver UME to maintain users.

For information about how these SAP systems and other optional SAP systems are integrated with the strategy management application, see the *Master Guide for SAP BusinessObjects Strategy Management* on SAP Service Marketplace.

3.1.2 Application Server Requirements

Requirements for Application Server installed on a Microsoft Windows server

To install and run Application Server on a Microsoft Windows server, you need the following:

- One or more Gigabytes of disk space depending on the size and number of dimensional model(s).
- A network card supported by your Microsoft Windows server.
- TCP/IP protocol transport installed.
- Windows Server 2003 Service Package 1 or later or Windows Server 2008.
- Oracle, SQL Server, or IBM DB2 Universal Database Workgroup database service. One of these database systems is required if reading in data from an RDBMS. If you are reading in data from text files, no database systems are required.

Requirements for Application Server installed on a Linux/UNIX server

To install and run Application Server on Linux/UNIX, you need the following:

- One or more Gigabytes of disk space depending on the size and number of dimensional models.
- One of the following servers:
  HP-UX 11.23/IA64 or 11.31/IA64 (64-bit)
  AIX 5.3 or 6.1 (64-bit)
  Solaris/SPARC 10 (64-bit)
  Linux SUSE SLS9/X86_64 (64-bit)
  Linux REDHAT EL4/X86_64 (64-bit)
  Linux REDHAT EL5/X86_64 (64-bit)
- Oracle, SQL Server, or IBM DB2 Universal Database Workgroup database service. One of these database systems is required if reading in data from an RDBMS. If you are reading in data from text files, no database systems are required.



NOTE

If you are connecting to Oracle from the Access LSLink subsystem of Application Server, you must have the Oracle client software installed on your machine. Contact your Oracle system administrator for details.

Requirements for Application Server installed on a Microsoft Windows client

To install and run Application Server on a Microsoft Windows client, you need Microsoft Windows XP 2002 Professional (32–bit) or Windows Vista (32–bit).

3.1.3 Interactive Publisher Requirements

If you deploy the strategy management Software Component Archive (SCA) on a UNIX/Linux server and you run the Java (JPIP) version of Interactive Publisher, you must install Interactive Publisher on a Windows system to obtain additional files required by the strategy management application. These files must be copied from the Windows ssystesm to the UNIX/Linux server to complete the JPIP configuration.

If you deploy on a Windows server and you run JPIP, you must install Interactive Publisher on a Windows server to obtain files required to complete the configuration.

In versions prior to SAP BusinessObjects Strategy Management 7.5 SP02, the CPIP version of Interactive Publisher was the only version available. CPIP is a Windows-only implementation of Interactive Publisher. If you want to run CPIP, you must install and configure Interactive Publisher on Windows Server 2003 or 2008 regardless of whether you deploy on a UNIX/Linux server or Windows server.

To run the JPIP or CPIP version of Interactive Publisher, you need the following:

- Microsoft Internet Explorer version 6.x series, 7.x series, or 8.
- Web connectivity to an intranet or the Internet.
- If running on a Windows server, the OS drive must be running NTFS. To verify, right-click the *My Computer* icon and choose *Manage* to display the *Computer Management* window. Expand the *Storage* folder, and then click *Disk Management*. Your OS drive should show NTFS as its File System. If it is running FAT security, then you need to reformat that drive so that it is running NTFS.

Interactive Publisher requires Microsoft Soap 3 which is put down by the Windows install.

3.2 Obtaining the Strategy Management Installations and Application Help Files

You must access the appropriate SAP Note for the release to learn how to download the installation files and Application Help files.

For information about obtaining the download for SAP BusinessObjects Strategy Management 7.5, see the Central Note for the SAP BusinessObjects Strategy Management 7.5 release you are installing.

For information about obtaining the download for further Support Packages for a release, see the SAP Note for that Support Package.

Go to `http://service.sap.com/notes` to review the Central Note and any SAP Notes.

3.3 Installed File Systems and Services

During the installation, you can accept the default destination directory or replace it with your own directory name location instead.

Interactive Publisher

If installing Interactive Publisher on a Windows server, you should know the Microsoft Windows environment you are working with and the target directory to install the Interactive Publisher components. The recommended default directory is `\Program Files (x86)\SAP BusinessObjects \Strategy Management\InternetPub`.

This list shows the directories put down on the Microsoft Windows server during an Interactive Publisher installation:

- `\Program Files (x86)\SAP BusinessObjects\Strategy Management\InternetPub\cache`
- `\Program Files (x86)\SAP BusinessObjects\Strategy Management\InternetPub\conf`
- `\Program Files (x86)\SAP BusinessObjects\Strategy Management\InternetPub\log`
- `\Program Files (x86)\SAP BusinessObjects\Strategy Management\InternetPub\template`

Service: SAP SM Extended Listener. This service is needed if the C++ (CPIP) version of Interactive Publisher is enabled. No service is required for JPIP.

Status: Not Started

Application Server on a Microsoft Windows client or server

If you are installing Application Server on a Microsoft Windows server, you should know the Microsoft Windows environment you are working with and the target directory to install the Application Server components. The recommended default directory is `\Program Files (x86)\SAP BusinessObjects \Strategy Management\ApplicationServer`.

This list shows the directories put down on the Microsoft Windows server or Microsoft Windows client machine during an Application Server Microsoft Windows installation:

- `\Program Files (x86)\SAP BusinessObjects\Strategy Management\ApplicationServer \data`
- `\Program Files (x86)\SAP BusinessObjects\Strategy Management\ApplicationServer \data\NON-UTF8`
- `\Program Files (x86)\SAP BusinessObjects\Strategy Management\ApplicationServer \home`
- `\Program Files (x86)\SAP BusinessObjects\Strategy Management\InternetPub\procs`

Service: SAP SM Listener

Status: Started

Application Server on a Linux/UNIX server

If you are installing Application Server on a Linux/UNIX server, you should know the Linux/UNIX environment you are working with and the target directory to install the Application Server components.

The recommended default directory referenced in this documentation is `/opt/sap/sm`.

A directory structure is created in the installation location where you extract the .SAR file and run the installation script. The following shows the directories created for Linux/UNIX:

- `|---lss/procs/`
- `|---lss/procs/ora_procs`
- `|---lss/procs/db2_procs`
- `|---lss/workfile/`

Service: SAP SM Listener daemon

Status: Not Started

4 Installation

This section describes typical or default directory names in the examples and steps. You can use your own directory names instead.

Prerequisites

You have downloaded the SAP BusinessObjects Strategy Management software components as described in the Central SAP Note for SAP BusinessObjects Strategy Management.
You have downloaded and extracted the Application Help files as described in the Central SAP Note for SAP BusinessObjects Strategy Management.

Process

1. Deploy the Software Component Archive where SAP NetWeaver CE is located.
   Who should read: Required steps for all implementations.
   For information, see *Deploying the Software Component Archive* [page 22].
2. Install Interactive Publisher on a Microsoft Windows system.
   Who should read: Required steps for all implementations, even if you want to run Interactive Publisher on a Linux/UNIX server.
   If you are installing Application Server and Interactive Publisher on the same Microsoft Windows system and you want to run the two components on the same Windows system, you can install them both at the same time.
   For information, see *Installing Interactive Publisher* [page 22].
3. Install Application Server on a Microsoft Windows server or Linux/UNIX server.
   Who should read: Required steps for all implementations.
   For information, see *Installing Application Server* [page 23].
4. Install Application Server on a Microsoft Windows client.
   Who should read: Required step if you installed Application Server on a Linux/UNIX server. This step is optional if you installed Application Server on a Windows server.
   For information about whether you should install Application Server on a Windows client, see the section *System Landscape* in the *Master Guide for SAP BusinessObjects Strategy Management* located on SAP Service Marketplace at `http://service.sap.com/instguidescpm-stm` → *SAP BusinesObjects Strategy Management*.
   For information, see *Installing Application Server* [page 23].

4.1 Deploying the Software Component Archive

Procedure

1. Find the Strategy Management Software Component Archive (SCA) file you downloaded to the SAP NetWeaver CE server.
2. Use the Java Support Package Manager (JSPM) tool to deploy the SCA. JSPM is part of every SAP NetWeaver 7.1 installation with usage types based on AS Java.
3. Restart SAP NetWeaver CE.

For information about deploying using SAP NetWeaver Developer Studio, see the topic *Deploying Archives* in the *SAP NetWeaver Composition Environment Library Developer's Guide* on the Help Portal.

4.2 Installing Interactive Publisher

If you deploy the strategy management Software Component Archive (SCA) on a UNIX/Linux server, the Java (JPIP) version of Interactive Publisher is configured by default. However, you must install Interactive Publisher on a Windows system to obtain additional files required by the strategy management application. These files must be copied from the Windows system to the UNIX/Linux server to complete the JPIP configuration.

If you deploy on a Windows server and you run JPIP, you must install Interactive Publisher on the Windows server to obtain files required to complete the configuration. If you are installing Application Server on a Windows server, the Interactive Publisher install can be done at the same, on the same machine.

In versions prior to SAP BusinessObjects Strategy Management 7.5 SP02, the CPIP version of Interactive Publisher was the only version available. CPIP is a Windows-only implementation of Interactive Publisher. If you want to run CPIP, you must install and configure Interactive Publisher on Windows Server 2003 or Windows Server 2008 regardless of whether you deploy the SCA on a UNIX/Linux server or Windows server.

Prerequisites

You are logged into the Microsoft Windows system with a user and password that has administrative privileges.

Procedure

1. From the installation download location, run the `xSSMSrv<sp>_<patch>-<smp-id>.exe` file.
2. In the first screen, click *Next*.
3. In the next screen, select *SM Interactive Publisher* and click *Next*.
4. In the path screen, click *Next* to accept the default path of `C:\Program Files (x86)\SAP BusinessObjects\Strategy Management`. Or, click *Browse* to browse for a location. Then click

Next. If you already installed a strategy management component on the same server where you are installing Interactive Publisher, this prompt does not appear.

> **NOTE**
>
> To cancel the installation, click *Cancel* in any wizard screen.

5. In the final screen, click *Done*.

Result

By default, Interactive Publisher files are installed in the `\Program Files (x86)\SAP BusinessObjects \Strategy Management\InternetPub` directory on the Microsoft Windows server.

During the configuration process, you will load a zip file into the application which is put down by the installation. For information, see *Loading Bootstrap Data* [page 45].

If you install SAP NetWeaver CE and Interactive Publisher on different physical machines, you must perform additional configurations on each machine. For information, see *Additional Steps to Configure Application Components when Interactive Publisher Is Installed on a Different Server* [page 43].

For information about all post-installation configuration steps, see *Post-Installation Steps for Interactive Publisher, Applications* [page 33].

> **NOTE**
>
> The SAP SM Extended Listener service *Startup type* is set to *Manual* by default and it is not started because it is not required for JPIP. If you change to the alternate CPIP then the service will need to be started and you must set the *Startup type* set to *Automatic*.

4.3 Installing Application Server

This section describes how to install Application Server software on a Microsoft Windows server or Linux/UNIX server, and optionally a Microsoft Windows client.

Prerequisites

You decided whether to install Application Server on a Microsoft Windows server or UNIX/Linux server.

You have decided whether you need to install Application Server on a Microsoft Windows client.

For information about whether you should install Application Server on a Windows client, see the section *System Landscape* in the *Master Guide for SAP BusinessObjects Strategy Management* located on SAP Service Marketplace at `http://service.sap.com/instguidescpm-stm` → *SAP BusinessObjects Strategy Management*.

4.3.1 Installing Application Server on a Microsoft Windows Server

Prerequisites

You are logged into the Microsoft Windows server with a user and password that has administrative privileges on the server.

Procedure

1. From the installation location, run the `xSSMSrv<sp>_<patch>-<smp-id>.exe` file.
2. In the first screen, click *Next*.
3. In the next screen, select *SM Application Server* and click *Next*.
4. In the path screen, click *Next* to accept the default path of `C:\Program Files (x86)\SAP BusinessObjects\Strategy Management`. Or, click *Browse* to browse for a location. Then click *Next*. If you already installed a strategy management component on the same server where you are installing Application Server, this prompt does not appear.
5. In the final screen, click *Done*.
6. If you installed Application Server on a Windows server 2008 R2 system, modify the security settings of the `/data` and `/home` directories to allow *Users* full control.



NOTE

To cancel the installation, click *Cancel* in any wizard screen.

Result

By default, Application Server software is installed in the `\Program Files (x86)\SAP BusinessObjects\Strategy Management\ApplicationServer` directory on the Microsoft Windows server.



NOTE

The SAP SM Listener service is started by default. This service listens for WINSOCK TCP/IP Application Server client connections. The service validates the user's rights to log on to the server and start the data communication process.

4.3.2 Installing Application Server on a Linux/UNIX Server

Application Server supports Linux/UNIX servers in a client/server configuration. The client machines running Application Server use WINSOCK support for client/server communications to Linux/UNIX servers.

Prerequisites

You are logged in as root on the Linux/UNIX server.

You have downloaded the `SAPCAR` archive file and the `<sarfilename>.SAR` file from SAP Service Marketplace.

Procedure

1. Create a directory where Application Server will be installed.
2. From the location where you downloaded the .SAR file, use the following commands to transfer the .SAR file to the desired installation directory. Case is significant on UNIX so you need to match the exact case of the filename.

   ```
   cp <sarfilename>.SAR /<installdir>
   ```

   If reading the installation location from a Microsoft Windows client, use FTP to transfer the .SAR to the `/<installdir>` directory on your Linux/UNIX machine. Be sure to transfer the file as a binary file.
3. Extract the file using the following command. Make sure you enter the exact case of the filename.

   ```
   SAPCAR -xvf <sarfilename>.SAR
   ```
4. Enter the following command to perform the installation.

   ```
   sh install.sh
   ```
5. Answer all the prompts about your Linux/UNIX environment to set up any environment variables required by Application Server.
6. At the prompt to choose the target environment, enter the number that represents your platform of Linux or UNIX.



NOTE

At any time while you are answering the prompts, you can type `Q` to quit and cancel the installation.

Result

A directory structure is created under the `/<installdir>` directory. For the complete directory structure, see *Installed File Systems and Services* [page 18].

4.3.3 Installing Application Server on a Microsoft Windows Client

If you installed Application Server on a Linux/UNIX server, you must also install Application Server on a Windows client machine. This enables you to use the Windows client interface to connect to the back end. Also, if you read in data from an RDBMS, this requires a Link ID. Application Server on Linux/UNIX has no interface to create a Link ID, so you must do this on the Windows client.

For more information about the system landscape, see the section *System Landscape* in the *Master Guide for SAP BusinessObjects Strategy Management* located on SAP Service Marketplace at `http://service.sap.com/instguidescpm-stm` → *SAP BusinesObjects Strategy Management*.

Procedure

1. Copy the file `xSSMSrv<sp>_<patch>-<smp-id>.exe` from the Microsoft Windows server to the Microsoft Windows client.

2. From the installation location, run the `xSSMSrv<sp>_<patch>-<smp-id>.exe` file and follow the same steps as described in *Installing Application Server on a Microsoft Windows Server* [page 24].



NOTE

To cancel the installation, click *Cancel* in any wizard screen.

5 Post-Installation Steps

Process

1. Work through the post-installation steps for Application Server.
2. Work through the post-installation steps for Interactive Publisher and Application Components.
3. Distribute the `xSSMWea<sp>_<patch>-<smp-id>.exe` installation file to Excel Add-In users. Or, notify the users about the location of the file so they can copy the file to their machines. Users install the client software by following the steps in the *Client Installation Guide for SAP BusinessObjects Strategy Management Excel Add-In*.
4. Distribute the `xSSMDgm<sp>_<patch>-<smp-id>.exe` installation file to Diagram Manager users. Or, notify the users about the location of the file so they can copy the file to their machines. Users install the client software by following the steps in the *Client Installation Guide for SAP BusinessObjects Strategy Management Diagram Manager*.

5.1 Post-Installation Steps for Application Server

This section covers all the post-installation steps you need to perform to start running Application Server.

Process

1. Specify a TCP/IP port number.
   Who should read: If port `8325` is being used for another service type, you have to change the client and server port numbers (which by default are `8325`) to a free port number between `1024` and `5000`.
   If no other service uses port `8325`, you can skip this step.
2. Start Application Server.
   Who should read: Required steps for all installations.
3. Set environment variables and create Link IDs.
   Who should read: Required steps for certain installations. For information, see *Setting Environment Variables and Creating Link IDs* [page 31].
4. Download a Microsoft Windows Help program from the Microsoft site to run the Application Server Help.
   Who should read: Required step only when Application Server is installed on a Windows server 2008 R2. This program is required to run the Application Server Help on this platform of Windows. For information, see *Downloading the Microsoft Windows Help Program* [page 32].

5.1.1 Specifying a Port

The TCP/IP port number is a unique number associated with each service type in a TCP/IP network. When you install Application Server, it is configured to use a default port number of 8325. If no other service uses port 8325, you do not need to change the port number. Skip the rest of this section and go to the next section about configuring Application Server.

If port 8325 is used for another service type, you have to change the client and server port numbers to the same free port number between 1024 and 5000. Edit the following line in the `/etc/services` file to change the port number:

```
lsserver 8325/tcp LSSERVER #Pilot Application Server Client
```



NOTE

If you are installing Application Server on a Microsoft Windows client, see *Startup Requirements* in the SAP BusinessObjects Strategy Management section of the SAP Library to learn about editing the `lsserver.ini` file to specify the port when not using the default value.

5.1.2 Starting Application Server on a UNIX Server

This section covers all the post-installation steps you need to perform to start running Application Server on Linux/UNIX. The information in this section is intended for an initial setup. To learn more fully about system administration, see the *Administrator's Guide for SAP BusinessObjects Strategy Management Application Server*.

5.1.2.1 Starting Listener Daemon for the First Time

Follow these steps to start the Application Server TCP/IP Listener daemon, called `lsstld`. This program is a Linux/UNIX daemon, a process that runs continually without being connected to a terminal. In this case, `lsstld` is listening for Application Server TCP/IP connections on the specific port number (the default is 8325).

Once you are sure that the software is installed correctly, you can add the commands to your system's startup files so that the Application Server listener starts up automatically whenever the system is restarted. For information, see the *Administrator's Guide for SAP BusinessObjects Strategy Management Application Server*.

Prerequisites

Application Server is installed on the Linux/UNIX server.

Procedure

1. Log on as root. You must log on as root because the listener process establishes sessions on behalf of the Linux/UNIX user accounts.

2. Go to the directory where the Application Server components are installed. For example:
   ```
   cd /<installdir>
   ```
3. Run the shell script to start the Listener:
   ```
   sh tldgo
   ```

Result

When `lsstld` has initialized, it creates a log file called `LSSTLD.LOG` in the current directory, and displays the following messages:

```
**********************************************************************
lsstld: daemon initialization started at Wed September 16 08:59:15 2009
lsstld: daemon initialization completed at Wed September 16 08:59:15 2009
**********************************************************************
```

5.1.2.2 Starting (Executing) Application Server in a Native UNIX Session

Before beginning client/server testing, you should ensure that the product functions correctly in native mode.

Prerequisites

The Application Server Listener daemon is started.

Procedure

Run either the `runlss.csh` or `runlss.ksh` scripts from within a telnet session to make sure the product functions as expected. In a telnet session, type:

```
csh ./runlss.csh
```

5.1.2.3 Starting Application Server on a Microsoft Windows Server

You must verify that your connections and processes are running properly.

Prerequisites

Application Server is installed on a Microsoft Windows server.

Procedure

1. On the Microsoft Windows server, choose *Start* on your Microsoft Windows Desktop, and then choose ▶ *Program* → *SAP BusinessObjects* → *Strategy Management* → *Application Server Administrator* ↵. A *Login* dialog box appears.
2. In the *User name* text box, type the following user name, which is created at installation:

```
admin
```

3. Do not enter any values in the *Password* and *Server* boxes. The admin user does not have a password. The server is a local configuration so you do not need to specify a server here. Click *OK*.
4. If you encounter the following error message twice, it indicates that the Microsoft Windows machine does not have a component of a Microsoft redistributable (`MSFlxgrd.ocx`).

   ```
   An unsupported operation was attempted
   ```

   Do one of the following if you encounter this error message:
   - Disable the *DataView* tab on the Application Server system. Assuming you have started the Application Server Administrator as described above, click *OK* on the initial error messages. From the *View* → *Options* dialog, select the *DataView* tab on the far right. Deselect the option *Show DataView at startup*. The next time you start the Application Server Administrator, the error message does not display and the *DataView* tab is unavailable.
   - Download the Microsoft Flex Grid Control by entering this link in a browser. When prompted, save the file locally.

     ```
     http://activex.microsoft.com/controls/vb6/MSFLXGRD.CAB
     ```

     Extract the files from the CAB and install it with the following command.

     ```
     RunDll32 advpack.dll,LaunchINFSection <full path>\msflxgrd.inf,DefaultInstall
     ```

Result

The Application Server program window is displayed.

5.1.3 Starting Application Server on a Microsoft Windows Client

Prerequisites

Application Server is installed on a Linux/UNIX server or Microsoft Windows server, and on a Microsoft Windows client machine.

You have completed the configuration of Application Server on the server system.

For information, see the *Server Configuration Help for SAP BusinessObjects Strategy Management* located on the Help Portal at http://service.sap.com/instguidesepm-stm → *SAP BusinessObjects Strategy Management*.

Procedure

1. Open the `Lsserver.ini` file in a text editor. It is located in the Microsoft Windows directory.
2. Change the `[localhost]` to the name or the IP of the system you are connecting to.
3. For the `username=pipadmin` entry, type the name of a user who has login access to the system.
4. Leave the `password=?` entry empty or type a question mark (`?`). You will be prompted for the password when you try to connect. The contents of the file should look as follows:

   ```
   [<your system name or IP>]
   ```

```
tcp_protocol=winsock
username=<your user name>
password=?
PROTOCOL=TCP
SERVICE=PILOT
CURSOR=LSSCMPTR
```

5. Verify that the Application Server Administrator software has been correctly installed on the Microsoft Windows client machine. Choose *Start* → *Program* → *SAP BusinessObjects* → *Strategy Management* → *Application Server Administrator*. A *Login* dialog box appears.
6. In the *User name* text box, type the following user name, which is created at installation:
   `admin`
7. Do not enter any values in the *Password* box because this Application Server user has no password by default.
8. From the *Server* drop-down list, select the name you specified for `[localhost]`. Click *OK*.
9. When prompted, enter the password for the system user you added to the `lsserver.ini` file.



NOTE

Later, you can create a remote server connection that stores your password in encrypted format in lsserver.ini rather than be prompted to type your password every time. To learn about this, see the online Help in the Application Server Administrator program.

5.1.4 Setting Environment Variables and Creating Link IDs

If you intend to do any of the following, you need to set environment variables and create a Link ID to define a connection between Application Server and a database system:

- You plan to read data from an RDBMS into an Application Server dimensional model. If you intend to read data into Application Server from text files, you can skip this section.
  For information about creating a Link ID to read data from an RDBMS, see *Creating a Link ID when Application Server is Installed on a Windows Server* or *Creating a Link ID when Application Server is Installed on a Linux/UNIX Server* in the *Server Configuration Help for SAP BusinessObjects Strategy Management* located on the Help Portal at `http://service.sap.com/instguidesepm-stm` → *SAP BusinessObjects Strategy Management*.
- You plan to use Entry and Approval, Cube Builder, and/or the GRC Interface.
  For information about creating a Link ID to use for these systems, see *Creating a Link ID for Certain Implementations* in the *Server Configuration Help for SAP BusinessObjects Strategy Management* located on the Help Portal at `http://service.sap.com/instguidesepm-stm` → *SAP BusinessObjects Strategy Management*.
- You plan to use SAP NetWeaver BI Connector.

For information about creating a Link ID to use for SAP NetWeaver BI Connector, see *Creating a Link ID for SAP NetWeaver BI Connector* in the *Server Configuration Help for SAP BusinessObjects Strategy Management* located on the Help Portal at ▶ `http://service.sap.com/instguidesepm-stm` → *SAP BusinessObjects Strategy Management* ◀.

Link IDs provide access to databases in a Microsoft Windows environment through Open Database Connectivity (ODBC). ODBC drivers are available from Microsoft and various thirdparty vendors. Consult these vendors for purchase, system requirements, installation, and configuration information.

5.1.5 Exiting Application Server

Procedure

Procedure

Using the menu

1. Choose ▶ *File* → *Exit Application Server* ◀. Or, double-click the icon at the top-left corner of the application window.
2. If you have the editor open and you have made changes that you have not yet saved, Application Server prompts you to save the changes.
3. (Optional) If *Confirm before exiting Application Server* is selected in the ▶ *View* → *Options* ◀ dialog box, Application Server prompts you to save your Work database. Do one of the following:
   - Click *Yes* to save your Work database and exit.
   - Click *No* to exit without saving the Work database.

     If *Confirm before exiting Application Server* is not selected in the ▶ *View* → *Options* ◀ dialog, your Work database is saved when you end your session.

     However, by adding the line `EXITCLEAR=Yes` to the *[Windows]* section of `LSSERVER.INI`, you can specify that you want the Work database to be deleted.

Exiting Using Application Server Commands

Enter the `EXIT` or `EXIT CLEAR` command in the *Input* window.

5.1.6 Downloading the Microsoft Windows Help Program

The Application Server installation on Windows provides an Application Server Help file that runs with the Microsoft Windows Help program `winhlp32.exe`. The Windows Help program is installed with earlier versions of Windows, but is not installed with Windows server 2008 R2.

If you install Application Server on a Windows server 2008 R2, and you want to run the Application Server Help file, you need to download the Microsoft Windows Help program from the Microsoft Download site.

Procedure

1. Access the Microsoft Download site in a browser window.
2. Download the appropriate version of `winhlp32.exe` based on the particular version of Windows you are running.
3. Install the file to the `\Windows` directory on the machine where you installed Application Server.

5.2 Post-Installation Steps for Interactive Publisher, Applications

This section covers all the post-installation steps for Interactive Publisher and Application Components. The information in this section is intended for an initial setup. To learn more fully about administration, see the *Server Configuration Guide for SAP BusinessObjects Strategy Management* on SAP Service Marketplace. See also the *Administrator's Guide for SAP BusinessObjects Strategy Management Interactive Publisher and Application Components* and the SAP BusinessObjects Strategy Management Application Server Help on SAP Service Marketplace.

Process

1. Create a SAP NetWeaver Anonymous user in SAP NetWeaver UME if one doesn't already exist.
   Who should read: Required steps for all installations.
2. Add pipadmin as an administrator in SAP NetWeaver UME, even if you are using SAP BusinessObjects Enterprise as your user management system.
   Who should read: Required steps for all installations.
3. Create a technical user in SAP NetWeaver UME for the *PipAdminService* Web Service Provider.
   Who should read: Recommended steps for all sites running C++ (CPIP) version of Interactive Publisher, regardless of whether you are using SAP NetWeaver UME or SAP BusinessObjects Enterprise as the user management system.
   The technical user is used for the Web Service communication. In the circumstance where the pipadmin user incorrectly enters the wrong password multiple times during login, pipadmin gets locked from the system and from the Web Service. This prevents the Web Service from functioning properly and prevents the strategy management application from being available. By setting up a separate user for the Web Service rather than using pipadmin as that user, you avoid being locked out of the Web Service and you can keep the strategy management application running during a pipadmin login failure.
   If you are running the Java (JPIP) version of Interactive Publisher, you do not need to create a technical user because JPIP does not use the pipadmin Web Service. For information about running Interactive Publisher with the CPIP interface or JPIP interface, see the *Technical System Landscape* section in the *Administrator's Guide for SAP BusinessObjects Strategy Management Interactive Publisher and Application*

Components. located on SAP Service Marketplace at http://service.sap.com/instguidescpm-stm → *SAP BusinessObjects Strategy Management*.

4. Create a technical user for SAP BusinessObjects Enterprise implementations.
   Who should read: Strongly recommended steps for sites using SAP BusinessObjects Enterprise as the user management system.
   This user connects to the user management system to read users/groups.
   If you do not want to create a technical user for SAP BusinessObjects Enterprise, or if you are using SAP NetWeaver UME as the user management system, you can skip this step.
5. Create a group called `strategy` in your user management system and add just the pipadmin user.
   Who should read: Carry out these steps if you want to control which users and system groups from the user management system can use the strategy management application.
   If you want all users and system groups from the user management system to access the strategy management application, you can skip this step.
6. Configure strategy management properties on the SAP NetWeaver CE server.
   Who should read: Required steps for all installations.
7. Additional steps to configure Application Components on the SAP NetWeaver CE server when Interactive Publisher is installed on a different server.
   Who should read: Carry out these steps if your site has installed Interactive Publisher on a different server than the SAP NetWeaver CE server. If you installed them both on the same server, you can skip this section.
8. Start the SAP SM Extended Listener service.
   Who should read: Required steps for all sites running C++ (CPIP) version of Interactive Publisher.
   If you are running the Java (JPIP) version of Interactive Publisher, you do not need to start the SAP SM Extended Listener service because JPIP does not use the pipadmin Web Service. For information about running Interactive Publisher with the CPIP interface or JPIP interface, see the *Technical System Landscape* section in the *Administrator's Guide for SAP BusinessObjects Strategy Management Interactive Publisher and Application Components*. located on SAP Service Marketplace at http://service.sap.com/instguidescpm-stm → *SAP BusinessObjects Strategy Management*.
9. Load bootstrap data using the Transporter utility.
   Who should read: Required steps for all installations.
10. Start the Administrator.
    Who should read: Required steps for all installations.
11. Set system defaults in the Administrator including adding pipadmin as a strategy management administrator, setting up communication with the Web Service, and refreshing the authorization cache.
    Who should read: Required steps for all installations.
12. Set Basic Authentication for the *PipAdminService* Web Service Provider.
    Who should read: Required steps for all sites running C++ (CPIP) version of Interactive Publisher.

If you are running the Java (JPIP) version of Interactive Publisher, you do not need to start the SAP SM Extended Listener service because JPIP does not use the pipadmin Web Service. For information about running Interactive Publisher with the CPIP interface or JPIP interface, see the *Technical System Landscape* section in the *Administrator's Guide for SAP BusinessObjects Strategy Management Interactive Publisher and Application Components*. located on SAP Service Marketplace at ▶ `http://service.sap.com/instguidescpm-stm` → *SAP BusinessObjects Strategy Management* ↵.

13. Specify the fonts to use for PDFs generated by the application.
Who should read: Required steps for sites running on Linux/UNIX.

5.2.1 Creating a SAP NetWeaver Anonymous User

The strategy management system requires a SAP NetWeaver user set up as Anonymous. The Anonymous user is necessary for Java Scheduler jobs.
If you currently have an anonymous SAP NetWeaver user set up in SAP NetWeaver UME, you can skip this topic. Otherwise, you must create an anonymous SAP NetWeaver user in UME.

5.2.2 Adding the Strategy Management Administrator to the User Management System

The strategy management application requires a special user as the strategy management administrator. The strategy management administrator has access to the *Administration* section of the Administrator. The strategy management documentation refers to the strategy management administrator by the username *pipadmin* although you can create this user with any name you prefer.
You must add the pipadmin user as an administrator in SAP NetWeaver UME in the *Administrator* group. Even if you are using SAP BusinessObjects Enterprise for your user management system, pipadmin must be added to SAP NetWeaver UME to be able to view and manage all strategy management scheduled jobs. (The Scheduler uses SAP NetWeaver UME for administrative purposes.)

Prerequisites

You are an administrator of SAP NetWeaver.

Procedure

1. Start the SAP NetWeaver Administrator.
2. Log in as administrator with the global password you provided when you installed SAP NetWeaver CE.
3. From the SAP NetWeaver Administrator home page, select ▶ *Operation Management* → *Identity Management* ↵.
4. Click *Create User* and create the user.
5. Click the *General Information* tab and enter the appropriate information. Type the name **`pipadmin`**.

6. Click the *Assigned Groups* tab. In *Available Groups*, keep *Search Criteria* blank, and click *Go*.
7. From the search result list, select *Administrator*, and click *Add*.

Result

An upcoming step in the post-installation configuration process involves adding *pipadmin* to the list of administrators in the Administrator and refreshing the authorization cache to ensure that the *pipadmin* user is propagated in the strategy management application. At that point, *pipadmin* will be fully added to the strategy management application.

More Information

For information about adding users in SAP NetWeaver UME, see *Identify Management* in the SAP NetWeaver documentation on the Help portal at `http://help.sap.com`.

5.2.3 Creating a Technical User for the PipAdminService Web Service

If you are using the C++ (CPIP) version of Interactive Publisher, it is recommended to create a technical user to use within the Windows Registry as the user utilized by the *SAP SM Extended Listener* service for communication between the Interactive Publisher component on Windows and the strategy management Web service Provider *PipAdminService*. This avoids any problems with Interactive Publisher connecting to the Web Services should the pipadmin account be locked out, or the password be changed – as can happen with an account which is used extensively by users. It also separates the user from the one used internally and the one utilized on a regular basis for user access to the Administrator.
If you prefer to use pipadmin to communicate between Interactive Publisher and the *PipAdminService*, you can skip this topic.



NOTE

In an upcoming configuration step, you will specify the technical user in the *User Name* text box in the *Set System Defaults* page in the Administrator. If you are not creating a technical user, you will specify `pipadmin`. For information, see *Refreshing the Authorization Cache for pipadmin and Setting Up Communication with the Web Service* [page 46].



NOTE

If you are running the Java (JPIP) version of Interactive Publisher, JPIP does not use the pipadmin Web Service so you can skip this topic. For information about running Interactive Publisher with the CPIP interface or JPIP interface, see the *Technical System Landscape* section in the *Administrator's Guide for SAP BusinessObjects Strategy Management Interactive Publisher and Application Components*. located on SAP Service Marketplace at `http://service.sap.com/instguidescpm-stm` → *SAP BusinessObjects Strategy Management*

Prerequisites

You are the administrator of SAP NetWeaver UME.

Procedure

1. In SAP NetWeaver UME, create a technical user called *SSEL* to represent the user for the *PipAdminService* Web Service.
2. Set the security policy to *Technical User*.
3. Add the technical user as a member of the *Administrators* group

5.2.4 Creating a Technical User for SAP BusinessObjects Enterprise Implementations

If you are using SAP BusinessObjects Enterprise as the user management system, it is strongly recommended to create a technical user to read users and system groups. This user is important because the strategy management application extracts information from SAP BusinessObjects Enterprise before any user is authenticated. The technical user needs special permissions to retrieve user and group information from the SAP BusinessObjects Enterprise. The technical user has anonymous login to the SAP BusinessObjects Enterprise to gather all the users and groups in the system for use with the strategy management application.

If you are using SAP BusinessObjects Enterprise as the user management system and you prefer to use pipadmin as the technical user, you can skip this topic.

If you are using SAP NetWeaver UME as the user management system, you can skip this topic.

In an upcoming configuration step, you will specify the technical user in the `CMSTechnicalUser` Java System Property. If you are not using a technical user, you will specify the name of the strategy management administrator, or `pipadmin`. For information, see *Configuring the Application and Setting Up the User Management System on the SAP NetWeaver CE Server* [page 38].

Prerequisites

You are the administrator of SAP BusinessObjects Enterprise.

Procedure

1. In SAP BusinessObjects Enterprise, create a technical user called *CMSTechnicalUser*.
2. Set the security policy to *Technical User*.
3. Add the technical user as a member of the *Administrators* group.

5.2.5 Creating a Strategy Group for Users and System Groups

If you do not want to allow all users and system groups from the user management system to access the strategy management application, then you can create a group in the user management system that contains just the users and system groups to access the application.

If you want all users and system groups in the user management system to access the strategy management application, you can skip this topic.
For the purpose of initial setup, you will add just pipadmin to the *strategy* group.
In an upcoming configuration step, you will add all the users and system groups who you want to access the strategy management application. For information, see the *Server Configuration Guide for SAP BusinessObjects Strategy Management* on SAP Service Marketplace.

Prerequisites

You are the administrator of the user management system.
You added pipadmin to the user management system.

Procedure

1. Create a group in the user management system. The name of the group must match the value you provided in the `StrategyGroup` Java System Property.
   If you kept the default value of *strategy* for the `StrategyGroup` Java System Property, then create a group called *strategy*. The case must be exactly the same between the user management system and the value of the Java System Property.
   If you specified a different value such as `StrategyUsers` for the `StrategyGroup` Java System Property, then you must create a group called `StrategyUsers`, using the same case.
   For the purpose of this discussion, we use the term *strategy* group in this documentation.
   The group will contain all the users and system groups who can access the strategy management application. The task of adding user and system groups to the *strategy* group is discussed in the *Server Configuration guide for SAP BusinessObjects Strategy Management* located on SAP Service Marketplace at `http://service.sap.com/instguidesEPM-STM` → *SAP BusinessObjects Strategy Management*.
   If you are adding users from LDAP in UME, the group name may be the Unique Name (or Unique ID). This determination depends on the value of `GroupUniqueKey`.
   For information, see *Configuring the Application and Setting Up the User Management System on the SAP NetWeaver CE Server* [page 38].
2. Add the pipadmin user to the group.

5.2.6 Configuring the Application and Setting Up the User Management System on the SAP NetWeaver CE Server

You configure certain properties in SAP NetWeaver to specify how you want the strategy management application to run.

Prerequisites

You are an administrator of SAP NetWeaver.

SAP BusinessObjects Enterprise is already installed if you want to manage strategy management users in SAP BusinessObjects Enterprise. For information, see the *SAP BusinessObjects Enterprise Installation and Configuration Guide for Windows* located on the SAP Library.

Procedure

1. Start the SAP NetWeaver Administrator.
2. Log on as administrator with the global password you provided when you installed SAP NetWeaver CE.
3. Select *Configuration Management*.
4. Click the *Infrastructure* tab.
5. Select *Java System Properties*.
6. In the *Templates* section, select the template *CE_Java_EE_production_full* (or whatever your NetWeaver server template is called).

   NOTE

   Make sure you select the template and not the instance development or the ID.
7. Click the *Applications* tab in the *Details* section.
8. In the *Name* column, type **strategy** and press Enter to list the strategy applications.
9. Select the name *xapps~cpm~sm~strategymanagement*.
10. In the *Extended Details* section, click inside the *Name* text box and type the property you want to modify.

    Enter the following values as appropriate:

Java System Property	Description	Value
`Template.strategy`	Maps the strategy management virtual directory `/strategy` to a physical directory.	The default value is `<drive>:\Program Files (x86)\SAP BusinessObjects\Strategy Management\InternetPub`. If you installed to the default location, you can keep the default value. If you installed the supporting files to a directory other than the default directory, you need to modify the value of `template.strategy` to reflect the new location of the supporting files.
`HelpLocation`	Specifies the location of the Application Help for the strategy management application. The SAP NetWeaver Library must be already installed before you install the strategy management Application Help on the same	Enter the location of the Application Help files in the format:

Java System Property	Description	Value
	server. Links to SAP NetWeaver and SAP Getting Started only work when implemented on a server with the complete SAP NetWeaver help system. For information about downloading the strategy management Application Help, see the Central Note for the latest release. By default, the `HelpLocation` is set to the location of the SAP Library.	`<NW_server>/<path>/helpdata`
`MaxUsersLimit`	Controls the number of users to add to an application group.	The default value is 1,000. To allow more than 1,000 users in a application group, specify the amount.

11. Enter the following values for the specified properties if you are using SAP BusinessObjects Enterprise as the user management system for strategy management users:

Java System Property	Description	Value
`AuthType`	Specifies whether to use SAP NetWeaver UME or SAP BusinessObjects Enterprise for user management. By default, the value is set to UME and SAP NetWeaver User Management is used for management of strategy management users.	`BOE`
`DirectoryServiceType`	Specifies the directory service.	`BOE_CACHE`
`CMSServer`	Specifies the location of the SAP BusinessObjects Enterprise installation.	`<ip_address>:<port>` If using the default port of `6400`, you can just enter the`<ip_address>`.
`CMSAuth`	Specifies the authentication types for users logging into the system.	One or more of these values, separated by a comma: `secEnterprise`, `secLDAP`, `secWinAD`.
`RemoteUserType`	User Type	`UME` **NOTE** Specify this value even if using SAP BusinessObjects Enterprise.
`CMSTechnicalUser`	Name of the CMS technical user.	By default, this name is `CMSTechnicalUser`. If you are using the default CMS Technical User, you do not need to modify this setting.

Java System Property	Description	Value
		 NOTE If you followed the steps to create the technical user, you were advised to enter `CMSTechnicalUser`. If you specified a name for the CMS Technical User when you created the user, specify the name. If you did not create a CMS Technical user, specify the name of the strategy management administrator, for example `pipadmin`.
`CMSTechnicalUserPW`	Password of the CMS technical user or strategy management administrator, whichever is applicable.	Enter the appropriate password of the CMS technical user or strategy management administrator, whichever is applicable. If you do not have a CMS Technical User, you can skip this setting.
`StrategyGroup`	Specifies the SAP BusinessObjects Enterprise group containing users and system groups who can access the strategy management application.	Specify a valid SAP BusinessObjects Enterprise group name that contains all the users and system groups who can access the strategy management application. By default, this value is set to `strategy`. When you eventually create the `strategy` group in the user management system, and add all the users and groups for strategy management, make sure you specify the exact name and case used for this value. For information, see *Creating a Strategy Group for Users and System Groups* [page 37] Specify a null value if you want to allow all users and system groups to access the strategy management application.

Enter the following values for the specified properties if you are using SAP NetWeaver UME as the user management system for strategy management users:

Java System Property	Description	Value
`AuthType`	Specifies whether to use SAP NetWeaver UME or SAP BusinessObjects Enterprise for	`UME`

Java System Property	Description	Value
	user management. By default, the value is set to `UME`.	
`DirectoryServiceType`	Specifies the directory service.	`UME_CACHE`
`RemoteUserType`	User Type	`UME`
`StrategyGroup`	Specifies the SAP NetWeaver UME group containing users and system groups who can access the strategy management application.	Specify a valid SAP NetWeaver UME group name that contains all the users and system groups who can access the strategy management application. By default, this value is set to `strategy`. When you eventually create the `strategy` group in UME, and add all the users and groups for strategy management, make sure you specify the exact name and case used for this value. For information, see *Creating a Strategy Group for Users and System Groups* [page 37] Specify a null value if you want to allow all users and system groups to access the strategy management application.
`GroupUniqueKey`	Ensures uniqueness of system group names when users are populated in SAP NetWeaver UME using LDAP. The value of `GroupUniqueKey` determines which field	If users are populated directly into SAP NetWeaver UME, you do not have to modify `GroupUniqueKey`. You can keep the default setting and skip this discussion because UME does not allow duplicate short names, and the assurance of uniqueness already exists. The value of `StrategyGroup` can be either null or a group containing the names of users and system groups as described above. If system groups are populated using LDAP in UME, you need to specify a value for `GroupUniqueKey` to determine which field `Unique_Name` or `Unique_ID` is used for system groups. If you have unique short names, keep the default value of `Unique_Name` for `GroupUniqueKey` and then set `StrategyGroup` to be the `Unique_Name` of the group you

Java System Property	Description	Value
	`Unique_Name` or `Unique_ID` is used for system groups.	choose. These settings indicate that the`Unique Name` field is used as the short name key for system groups in the strategy management application. In nearly all cases, you should leave the value of `GroupUniqueKey` as `Unique_Name`. Only under unusual circumstances (where unique names are really NOT unique) would you use `Unique_ID`. If you have duplicate short names in LDAP, you must change the value of `GroupUniqueKey` to `Unique_ID` and change the value of `StrategyGroup` to be the `Unique_ID` of the group you choose to guarantee the uniqueness for the group short names. **NOTE** Once you apply system groups in the Administrator using *Manage Application Groups* or *Manage Models*, you cannot change the value of `GroupUniqueKey`.

12. When you return to the *Extended Details* section, click *Save*.
13. Restart SAP NetWeaver CE to allow these changes to take effect.

5.2.7 Additional Steps to Configure Application Components when Interactive Publisher Is Installed on a Different Server

This section contains required steps for sites who have installed Interactive Publisher on a different server than the SAP NetWeaver CE server. You must perform a special configuration of the Application Components on the SAP NetWeaver CE server.

If you installed them both on the same server, you can skip this section.

Prerequisites

You are an administrator of SAP NetWeaver.

Procedure

1. Start the SAP NetWeaver Administrator.

2. Log in as administrator with the global password you provided when you installed SAP NetWeaver CE.
3. From the SAP NetWeaver Administrator home page, select *Configuration Management*.
4. Click the *Infrastructure* tab.
5. Select *Java System Properties*.
6. Select the template *CE_Java_EE_production_full*.

   NOTE

   Make sure you select the template and not the instance development or the ID.
7. Click the *Applications* tab in the *Details* section.
8. In the *Name* column, type **Strategy** and press *Enter*.
9. Select the name *xapps~cpm~sm~strategymanagement*.
10. In the *Name* column of *Extended Details*, type **host** and press *Enter*.
11. Select the host row. Its default value is *localhost*.
12. Click *Modify*.
13. Enter the IP address or name of the server machine where Interactive Publisher is installed.

    NOTE

    If you are specifying an IP address, make sure it maps to a fully qualified server name as shown in your host's file located in `<drive>:\windows\system32\drivers\etc\hosts`. If you are specifying a server name, use the fully qualified name rather than the short name.
14. Click *Set*.
15. In the *Extended Details* section, click *Save*.
16. Click *Logoff*.

5.2.8 Starting or Restarting the SAP SM Extended Listener Service

If you are using the C++ (CPIP) version of Interactive Publisher, you must check to be sure that the SAP SM Extended Listener is started. The next time you reboot, this service is started automatically.

NOTE

If you are running the Java (JPIP) version of Interactive Publisher, JPIP does not use the SAP SM Extended Listener so you can skip this topic. For information about running Interactive Publisher with the CPIP interface or JPIP interface, see the *Technical System Landscape* section in the *Administrator's Guide for SAP BusinessObjects Strategy Management Interactive Publisher and Application Components*. located on SAP Service Marketplace at `http://service.sap.com/instguidescpm-stm` → *SAP BusinessObjects Strategy Management*

Procedure

Procedure

Starting SAP SM Extended Listener service

1. On the Interactive Publisher server, from *Administrative Tools*, go to *Services*.
2. Right-click *SAP SM Extended Listener* and choose *Start* if it is not currently started.
3. If the service starts as expected, you can skip the rest of the steps in this topic. If the service hangs, it is an indication that Microsoft SOAP 3.0 may not be functioning properly or may not have been deployed correctly during the Interactive Publisher install. You need to perform further steps below.

If SAP SM Extended Listener hangs

1. Open the Microsoft Windows Task Manager and stop the process `webengdb.exe`.
2. Download the SOAP Toolkit 3 from `http://msdn2.microsoft.com`.
3. Start the SAP SM Extended Listener.
4. Restart the SAP SM Extended Listener.

5.2.9 Loading Bootstrap Data

You must run the Transporter utility to import the `import.zip` file.

Prerequisites

You are a strategy management administrator.

Procedure

1. Move the `import.zip` file or `bootstrap.zip` file from the `\SAP BusinessObjects\Strategy Management\InternetPub\conf` directory on the Interactive Publisher server to the `\server\temp\SSM\import` directory on the SAP NetWeaver server. In a default installation, the full path is `\usr\sap\<SID>\J00\j2ee\cluster\server\temp\SSM\import`.

   

   NOTE

   Move `import.zip` if you want the demo/sample data to be available. Otherwise, move `bootstrap.zip` instead.
2. In a Web browser, enter this URL to open the Tools utility:

   `http://<nwce_server>:<port>/strategy/tools`
3. Click *Transporter*.
4. In the *Choose a database transport file* section, from the drop-down list, select the file you moved to the `\import` directory, which is either `import.zip` or `bootstrap.zip`.
5. Click *Import into Database*.

5.2.10 Starting the Administrator

Prerequisites

You are the strategy management administrator.

Procedure

1. Open a browser window and type the following to start the Administrator:
   `http://<nwce_server>:<port>/strategy/administration`
2. Depending on the authentication set up at your site, you may be prompted to log on. If you are prompted, log on with your pipadmin administrator username and password.
3. If you are prompted for an authentication type, select whether your username is authenticated from SAP BusinessObjects Enterprise, from LDAP, or from Windows ActiveDirectory. If your username is authenticated from SAP NetWeaver UME, you will not be prompted for an authentication type.

5.2.11 Refreshing the Authorization Cache for pipadmin and Setting Up Communication with the Web Service

You must set certain system defaults to specify the pipadmin user as the administrator of the strategy management application and refresh the authorization cache to propagate the pipadmin user in the strategy management application.

If you are running the C++ (CPIP) version of Interactive Publisher, you must also set up communication between Interactive Publisher and strategy management via the *PipAdminService* Web Service. This allows Interactive Publisher to communicate with SAP NetWeaver CE to get configuration information via the Web Service. This Web Service connection allows Interactive Publisher to get model connections, users, and groups from the strategy management application.

Prerequisites

The pipadmin user is added to the *Administrator* group in SAP NetWeaver UME.

If you created a technical user, the technical user is added to the *Administrator* group in SAP NetWeaver UME. For information, see *Creating a Technical User for the PipadminService Web Service* [page 36].

You are running the Administrator as the strategy management administrator.

Procedure

1. In the Administrator, choose *Administration* → *Set System Defaults*.
2. In the *SM Administrator(s) text* box, enter **pipadmin**.
3. Click *Synchronize User Tables*.

Additional steps if you are running the CPIP version of Interactive Publisher

1. In the *End Point* text box, keep the value of `localhost:50000` if Interactive Publisher and SAP NetWeaver CE are on the same server. This is the location for Interactive Publisher to communicate with the application middle tier to get configuration information.
   If Interactive Publisher and SAP NetWeaver CE are on different servers, then change the *End Point* value to `<ip_address>:<port>` for the IP address and port where SAP NetWeaver CE is installed.
   All future references in the strategy management documentation refer to this as `<nwce_server>:<port>`.
2. In the *User Name* text box, specify the technical user to be used for authentication for the Web service.
   If you created a technical user, the name is *SSEL* or may be a different user-specified name.
   If you did not create a special technical user for the *PipAdminService* Web Service, enter *pipadmin*.
3. In the *Password* text box, enter the password of the technical user or the password of pipadmin as appropriate. This password is base-64 encoded.
4. (Optional) Enable caching in the Web Service as a performance boost to save Web Service calls for every HTTP request.

5.2.12 Setting Basic Authentication for the PipAdminService Web Service

If you are running the C++ (CPIP) version of Interactive Publisher, you must configure the `PipAdminService` Web Service provider to use *Basic Authentication*.



NOTE

If you are running the Java (JPIP) version of Interactive Publisher, JPIP does not use the pipadmin Web Service so you can skip this topic. For information about running Interactive Publisher with the CPIP interface or JPIP interface, see the *Technical System Landscape* section in the *Administrator's Guide for SAP BusinessObjects Strategy Management Interactive Publisher and Application Components*. located on SAP Service Marketplace at `http://service.sap.com/instguidescpm-stm` → *SAP BusinessObjects Strategy Management*

Prerequisites

You are the administrator of SAP NetWeaver.

Procedure

1. Start *Web Services Administration* in SAP NetWeaver using the following URL:
   `http://<nwce_server>:<port>/nwa/WSAdmin`
2. In the *Search By* drop-down list, select *Service Definition Name* and click *Go*.
3. From the list of services, select *jee-default_PipAdminService*.

4. Select the *Configuration* tab and then select the *Service Endpoints* tab.
5. From the *Service* list, select *PipAdminServiceService*.
6. Click *Edit*.
7. Click the *Security* tab.
8. In the *HTTP Authentication* section, select *User ID/Password* and then click *Save*.

5.2.13 Specifying the Fonts to Use in PDFs on Linux/UNIX

If you are running SAP BusinessObjects Strategy Management on a Linux/Unix platform, and you print reports, email reports, and use Operational Reviews, you may notice font issues in the generated PDFs. This occurs because fonts can be stored on a Linux/UNIX server in varying places and the strategy management application requires the exact location of the fonts to run properly.
Follow these steps to find the system fonts you want to use on the Linux/UNIX system and make those fonts available to the strategy management application.

Prerequisites

You are running SAP BusinessObjects Strategy Management on a Linux/Unix platform and you are familiar with Java and UNIX.

Procedure

1. Find the fonts on the Linux/Unix server that you want to use by running the following font resolution routine. This Java program, which you run in a terminal window, identifies the fonts that are installed on the system and that are visible to Java. The results are saved in an Excel .CSV file.
   Run the program using:
   ```
   Java GetAllFonts > allfont.<OS>.csv
   ```
2. Access the strategy management properties in SAP NetWeaver and modify the following Java System Properties.
   ```
   pd4ml.fontconfigpath = java:/<Install-Directory>/fontconfig.<OS>.properties
   pd4ml.fontdir = file:/<FontDirectory>/fonts
   ```

   

   NOTE

   The application uses the following Java Properties files to locate and load TrueType font files:
   - The `fontconfig.<OS>.properties` specifies the location of the `fontseeker.<OS>.properties` file. It also contains a mapping of TrueType Font names and font files. The full path of the font file is determined by the `pd4ml.fontdir` Java System Property and the file name defined in the `fontconfig.<OS>.properties` file. The location of this properties file is defined by the `pd4ml.fontconfigpath` Java System Property.

- The `fontseeker.<OS>.properties` file contains a mapping of the strategy management internal font names and TrueType font names. For the AIX server, the default font properties files assumes you use font files that are shipped with Java 5, and Java 5 is installed under `/usr/java`.

For information about setting strategy management Java System Properties, see *Configuring the Application and Setting Up the User Management System on the SAP NetWeaver CE Server* [page 38].

3. If the new font configuration does not take effect, restart SAP NetWeaver CE.

5.3 Distributing Client Software

The strategy management download file includes two client installation files, which you must distribute to the end users who need to install the software on their machines.

You must distribute the `xSSMWea<sp>_<patch>-<smp-id>.exe` installation file to Excel Add-In users so they can install the client software by following the steps in the *Client Installation Guide for SAP BusinessObjects Strategy Management Excel Add-In*.

You must distribute the `xSSMDgm<sp>_<patch>-<smp-id>.exe` installation file to Diagram Manager users so they can install the client software by following the steps in the *Client Installation Guide for SAP BusinessObjects Strategy Management Diagram Manager*.

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6 Configuration

After you install and perform the initial configuration of the strategy management components, see the *Server Configuration Guide for SAP BusinessObjects Strategy Management* on SAP Service Marketplace to learn how to configure Application server and Interactive Publisher on their servers, and start the Administrator and the strategy management application. It is not possible to run the strategy management application until you work through configuration of the individual components.
In addition, any user wishing to access the Administrator, the strategy management application, or Diagram Manager must follow the steps in *Startup Requirements* in the *SAP BusinessObjects Strategy Management* section of the SAP Library.

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7 Uninstalling Strategy Management

This section describes how to uninstall the strategy management components with no plans to reinstall a newer version. This section also describes how to uninstall directly after an install, with plans to reinstall to a different drive or directory.

If you are uninstalling to upgrade to a newer version of strategy management, see the *Server Upgrade Guides* and *Upgrade Master Guide* located on SAP Service Marketplace at `http://service.sap.com/instguidescpm-stm`*SAP BusinessObjects Strategy Management*.

1. Stop services.
2. Uninstall the strategy management components.
3. Undeploy the Software Component Archive.
4. Clean up files.

7.1 Stopping Services

Procedure

1. On the Microsoft Windows server where Interactive Publisher is installed, go to the *Services* program in *Administrative Tools* and stop the *SAP SM Extended Listener*.
2. If Application Server is installed on a Microsoft Windows server, go to the *Services* program in *Administrative Tools* and stop the *SAP SM Listener*.
3. If Application Server is installed on a UNIX/Linux server, log on as root and stop the Application Server TCP/IP Listener daemon by running the following:

   ```
   tldstop
   ```

7.2 Uninstalling Interactive Publisher and Application Server

Procedure

Procedure

Uninstalling Interactive Publisher and Application Server on Microsoft Windows servers

1. On the Microsoft Windows server, make sure that you are logged in with a user and password that has administrative privileges on the server.
2. From the installation location, run the `xSSMSrv<sp>_<patch>-<smp-id>.exe` file.
3. In the first screen, click *Next*.
4. In the next screen, do one of the following:

- Deselect *Strategy Management Server Components* to uninstall both Interactive Publisher and Application Server if they are both installed on the same machine.
- Deselect *SM Interactive Publisher* to uninstall just Interactive Publisher.
- Deselect *SM Application Server* to uninstall just Application Server.

5. Click *Next*.
6. In the final screen, click *Done*.
7. Do one of the following:
   - If you do not plan to reinstall Application Server, go to `\Windows` directory and delete the `lsserver.ini` file.
   - If you plan to reinstall Application Server on the same drive, you do not need to delete the `lsserver.ini` file.
   - If you plan to reinstall Application Server on a different drive, either delete `lsserver.ini` after the uninstall, or else reinstall Application Server and then modify `lsserver.ini` to refer to the correct drive and directory location of Application Server.

Uninstalling Application Server on a Linux/UNIX server

The Uninstall program attempts to remove or reverse all changes made to the system by the Setup program. Depending on your OS settings, you may be required to reboot the system during the uninstall.

1. Use `rm` to remove all files except `MASTERDB`, databases, and scripts.
2. Clean up processes and remove files at the operating system level. In the `/etc/services` file, delete the following line, where `nnnn` is a number such as 2001 or 8325. That number varies depending on the version of the strategy management software you have installed:

   ```
   lsserver nnnn/tcp lsserver # Application Server Client
   ```

7.3 Undeploying the Software Component Archive

Undeploy the software component archive for strategy management using the tool you typically use to deploy and undeploy archives in SAP NetWeaver.

For information about undeploying using SAP NetWeaver Developer Studio, see the topic *Undeploying Archives* in the *SAP NetWeaver Composition Environment Library Developer's Guide* on the Help Portal.

7.4 Cleaning Up Directories

The Uninstall program does not remove several files. If you want to uninstall the components without upgrading to a new version, you should manually delete these files.

Procedure

1. In Microsoft Windows explorer, go to the Window directory and delete `Lsserver.ini`, `lsdal.ini`, and `lsdal.cnf`.
2. In Microsoft Windows Explorer, go to Program files and delete the entire `\SAP BusinessObjects \Strategy Management` directory.
3. Delete any files that were created outside of the `<drive>:\Program Files (x86)\SAP BusinessObjects\Strategy Management` directory structure. These might be dimensional models.
4. Delete files currently in use by other programs.
5. Directories that were created by the Setup program that contain user-created files.
6. Clean your browser cache on the Interactive Publisher server and on all client machines.

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8 Strategy Management Java System Properties in SAP NetWeaver

The following Java System Properties are used in SAP NetWeaver for the strategy management application. The Guides in which these Java System Properties are documented exist on SAP Service Marketplace at http://service.sap.com/instguidesepm-stm → *SAP BusinessObjects Strategy Management*.

Java System Property	Guide
AuditLogComments	*Server Configuration Help for SAP BusinessObjects Strategy Management*
AuthType	*SAP BusinessObjects Strategy Management Installation Guide*
ClearUMECacheOnSync	*Server Configuration Help for SAP BusinessObjects Strategy Management*
CMSAuth	*SAP BusinessObjects Strategy Management Installation Guide*
CMSServer	*SAP BusinessObjects Strategy Management Installation Guide*
CMSTechnicalUser	*SAP BusinessObjects Strategy Management Installation Guide*
CMSTechnicalUserPW	*SAP BusinessObjects Strategy Management Installation Guide*
dataload.group.defaultPermissions	*User's Guide for SAP BusinessObjects Strategy Management External Data Loader*
DirectoryServiceType	*SAP BusinessObjects Strategy Management Installation Guide*
EAValueAuditFlag	*Server Configuration Help for SAP BusinessObjects Strategy Management*
EnableLongMeasuresSelector	*Server Configuration Help for SAP BusinessObjects Strategy Management*
external.consulting.appgroup.name	*User's Guide for SAP BusinessObjects Strategy Management External Data Loader*
external.consulting.appgroup.tabs	*User's Guide for SAP BusinessObjects Strategy Management External Data Loader*
external.csv.flag	*User's Guide for SAP BusinessObjects Strategy Management External Data Loader*
external.pm.appgroup.name	*User's Guide for SAP BusinessObjects Strategy Management External Data Loader*
external.pm.appgroup.tabs	*User's Guide for SAP BusinessObjects Strategy Management External Data Loader*
Graphic.Source	*Server Configuration Help for SAP BusinessObjects Strategy Management*
GroupUniqueKey	*SAP BusinessObjects Strategy Management Installation Guide*
HelpLocation	*SAP BusinessObjects Strategy Management Installation Guide*
HomeTabExtFileTypes	*Server Configuration Help for SAP BusinessObjects Strategy Management*
Igs.Port	*Server Configuration Help for SAP BusinessObjects Strategy Management*
Mail.domain	*Server Configuration Help for SAP BusinessObjects Strategy Management*
Mail.from	*Server Configuration Help for SAP BusinessObjects Strategy Management*
Mail.smpt.host	*Server Configuration Help for SAP BusinessObjects Strategy Management*
MaxUsersLimit	*SAP BusinessObjects Strategy Management Installation Guide*
pd4ml.fontconfigpath	*SAP BusinessObjects Strategy Management Installation Guide*
pd4ml.fontdir	*SAP BusinessObjects Strategy Management Installation Guide*
Pip.Type	*Server Configuration Help for SAP BusinessObjects Strategy Management*

Java System Property	Guide
PWDatabase	*Server Configuration Help for SAP BusinessObjects Strategy Management*
RemoteUserType	*SAP BusinessObjects Strategy Management Installation Guide*
sem.appgroup.name	*Migration Guide for SEM to SAP BusinessObjects Strategy Management*
sem.appgroup.tabs	*Migration Guide for SEM to SAP BusinessObjects Strategy Management*
sem.dbname	*Migration Guide for SEM to SAP BusinessObjects Strategy Management*
servlet.font	*Server Configuration Help for SAP BusinessObjects Strategy Management*
StrategyGroup	*SAP BusinessObjects Strategy Management Installation Guide*
Template.strategy	*SAP BusinessObjects Strategy Management Installation Guide*

Typographic Conventions

Example	Description
<>	Angle brackets indicate that you replace these words or characters with appropriate entries to make entries in the system, for example, “Enter your <User Name>”.
→	Arrows separating the parts of a navigation path, for example, menu options
Example	Emphasized words or expressions
Example	Words or characters that you enter in the system exactly as they appear in the documentation
Example	Textual cross-references to an internet address, for example, http://www.sap.com
/example	Quicklinks added to the internet address of a homepage to enable quick access to specific content on the Web
123456	Hyperlink to an SAP Note, for example, SAP Note 123456
Example	■ Words or characters quoted from the screen. These include field labels, screen titles, pushbutton labels, menu names, and menu options. ■ Cross-references to other documentation or published works
Example	■ Output on the screen following a user action, for example, messages ■ Source code or syntax quoted directly from a program ■ File and directory names and their paths, names of variables and parameters, and names of installation, upgrade, and database tools
EXAMPLE	Technical names of system objects. These include report names, program names, transaction codes, database table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE
EXAMPLE	Keys on the keyboard

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