



Server Upgrade Guide

SAP Strategy Management 2007 to 7.0 Series

Target Audience

- Technical Consultants
- System Administrators

PUBLIC

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THE BEST-RUN BUSINESSES RUN SAP





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Typographic Conventions

Type Style	Description
<i>Example Text</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Cross-references to other documentation
Example text	Emphasized words or phrases in body text, graphic titles, and table titles
EXAMPLE TEXT	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.
Example text	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example text	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example text>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE TEXT	Keys on the keyboard, for example, F2 or ENTER.

Icons

Icon	Meaning
	Caution
	Example
	Note
	Recommendation
	Syntax

Additional icons are used in SAP Library documentation to help you identify different types of information at a glance. For more information, see *Help on Help → General Information Classes and Information Classes for Business Information Warehouse* on the first page of any version of *SAP Library*.

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1 Introduction

1.1 Document History



Before you start the upgrade, make sure that you have the latest version of this document. You can find the latest version on SAP Service Marketplace at: <http://service.sap.com/instguidesCPM-STM>. -> [SAP Strategy Management](#).

The following table provides an overview about the most important document changes.

Version	Description
1.00	First version – no changes
2.00	Updated to cover the upgrade to the latest version of 7.0

1.2 About this Document

Purpose

Use this Guide to learn how to upgrade from Strategy Management 2007 to the latest version of Strategy Management 7.0. With this guide, and the following other guides, you will be able to upgrade your Strategy Management components to the latest version of 7.0:

- *Server Installation Guide for SAP Strategy Management 7.0 SP02 and higher*
- *Server Configuration Guide for SAP Strategy Management 7.0 SP02 and higher*

For information about ongoing administration of Strategy Management products, see the *Administrator's Guide for SAP BusinessObjects Strategy Management Application Server* and the *Administrator's Guide for SAP BusinessObjects Strategy Management Interactive Publisher and Application Components* on SAP Service Marketplace.

This document contains the following sections:

- Planning
- Preparation
- Upgrade Process
- Follow-up Activities
- Upgrade Administration

Constraints

To learn how to upgrade the Excel Add-In client program, refer to the *Client Installation Guide for SAP BusinessObjects Strategy Management Excel Add-In* on the Service Marketplace.

To learn how to upgrade the Diagram Manager client program, refer to the *Client Installation Guide for SAP BusinessObjects Strategy Management Diagram Manager* on the Service Marketplace.

1.3 Before You Start

1.3.1 Naming Conventions

In this documentation, the following naming conventions apply:

Variables

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
<drive>	Drive where the product is installed.

1.3.2 New Features

Terminology Changes

2007 series:	7.0 series
Metrics Manager application group	Entry and Approval application group
Pilot Interactive Publisher	Interactive Publisher
Pilot Application Server	Application Server
\Program Files\Pilot Software\Common	\Program Files\SAP\SSM
Pilot Extended Listener service	SAP SSM Extended Listener service
Pilot Listener service	SAP SSM Listener service

URL Changes

From:	To:
http://<web_server>/pilot/pilotworks	http://<nwce_server:port>/strategy/strategymanagement
http://<web_server>/pilot/pipadmin	http://<nwce _server:port>/strategy/administration
http://<web_server>/pilot/metricsmanager	http://<nwce _server:port>/strategy/entryandapproval

Storage location changes

From:	To:
Pilot.db, bookmark.db, pwsample.db, Entry and Approval databases, <scorecard_dbname>.db	SAP NetWeaver CE System Database
Security.properties	SAP NetWeaver Administrator Java System Properties
Mail.properties	SAP NetWeaver Administrator Java System Properties
Pbm_kpipers.pro	scorecard.pro
PilotWorks.ear	SAP NetWeaver Data Dictionary

Software changes

2007 series	7.0 series
JFreeChart	SAP IGS
IIS	SAP NetWeaver CE
Quartz	SAP Scheduler
JBoss	SAP NetWeaver CE

Client upgrade for Excel add-in

End-users will have to modify their lsviewer.ini file if it contains login information. They will need to update the Hostname from <web_server> to <nwce_server>:<port>. They will have to update the pathname from /pilot/scriptmain.pw to /strategy/scriptmain.pw. This is documented for end-users in the *Client Installation Guide for SAP BusinessObjects Strategy Management Excel Add-In*.

1.3.3 SAP Notes for the Upgrade

Make sure you read the Release Notes to learn about the new features in this release. To do so, go to this address:

<http://service.sap.com/releasenotes>

Then click *SAP BusinessObjects* → *SAP BusinessObjects enterprise performance management (EPM)* → *Strategy Management*

2 Upgrade – Step by Step

Planning

✓	Activity
	Choose how to migrate your pre-7.0 Application Server databases to version 7.0.

Preparation

✓	Activity
	Prepare Application Server
	Back up the databases
	Dump the databases if doing a dump and load
	Backing up Application Server files
	Prepare Interactive Publisher
	Back up files
	Back up Registry settings
	Dump model connection information so that it can be loaded into the new version
	Stop services
	Uninstall Interactive Publisher and Strategy Management components
	Uninstall Application Server
	Clean up upgrade files and cache files and remove schedule.db
	Clean up Work database files
	Install and deploy the latest version of Strategy Management <i>See the Server Installation Guide for SAP Strategy Management SP02 and higher</i>
	Copy backed up files to the new installation location
	Copy backed up Interactive Publisher files
	Copying files related to using pre-7.0 Application Server databases in version 7.0
	Configure Strategy Management <i>See the Server Configuration Guide for SAP Strategy Management 7.0 SP02 and higher</i>

Upgrade Process

✓	Activity
	Upgrade the Application Server
	Update Isserver.ini
	Upgrade Application Server databases
	Rebuild the databases or load databases that have been dumped or use pre-7.0 databases in version 7.0.
	Upgrade issue with internationalization of Hybrid OLAP Transformer text
	Upgrade Interactive Publisher
	Submit your scorecard databases to SAP for conversion
	Import application data using the Transporter utility
	Load PWDS users into UME
	Load model connection information that was dumped during the <i>Preparation</i> phase
	Rename the Metrics Manager application group to Entry and Approval
	Reset the fiscal year start
	Update custom Interactive Publisher HTML files with @(type) tags to JSP pages.
	Restart services
	Upgrade the user interfaces by recreating your schedules

Follow-Up Activities

✓	Activity
	None

3 Planning

3.1 Choosing how to migrate pre-7.0 databases to the 7.0 format

Existing customer databases created in versions before 7.0 are not usable in Strategy Management version 7.0 due to an increase in name lengths for dimensions, members, variables, etc. and enhanced character support. Application Server databases that you create in Application Server 7.0 are in UTF8 format. In the past, databases were always non-UTF8.

Increase in name lengths

Object	SSM 7.0 limit (in bytes)	SSM 2007 limit
Database name	96	24
Dimension name	96	24
Variable name	96	24
Member name	96	24
Set name	96	24
User name	96	24
Group name	96	24
Password	36	12
Database protection key	63	16
User Access key	48	16

If you want to use your pre-7.0 databases in version 7.0, it is recommended that you take advantage of the increased limits and enhanced character support by rebuilding your databases in version 7.0. Since the databases will be in UTF8 format, it facilitates upgrading to further releases.

If you can't recreate your pre-7.0 databases in version 7.0 due to size or time constraints, but you can dump and load your databases, then the next recommendation is to dump the pre-7.0 databases in the pre-7.0 version and then load them into version 7.0.

If you can't dump and load the pre-7.0 databases because they are too large, then you can upgrade them to be useable in the version 7.0. Using the *Ugradedb* program, the databases will not be converted to UTF8 and you will not benefit from the UTF8 features.

3.2 Planning to rebuild pre-7.0 databases

If possible, you should completely rebuild your pre-7.0 databases in version 7.0 to take advantage of the new features of 7.0 and to facilitate future upgrades.

Process flow

Prepare

1. Back up all pre-7.0 databases, the procedures for building the databases, and MASTERDB.
2. Uninstall the pre-7.0 version of Strategy Management.
3. Clean up files.
4. Rename Isserver.ini in the Windows directory.
5. Install and deploy Strategy Management 7.0.
6. Recreate any Application Server users previously defined using the CREATE USER command.
7. Copy custom files and your build procedures to the new directory location.
8. Configure Strategy Management according to the *Server Configuration Guide for SAP Strategy Management 7.0 SP02 and higher*.

Upgrade

9. Update Isserver.ini
10. Run the build procedures to build the databases.
11. Upgrade Interactive Publisher.

3.3 Planning to dump and load pre-7.0 databases

If you are not able to rebuild your databases but you are able to dump and load them, then it is recommended to dump the pre-7.0 databases and load them into version 7.0. The databases will be converted to UTF8, will take advantage of the new features, and facilitate future upgrades.

Process flow

Prepare

1. Back up all pre-7.0 databases including MASTERDB.
2. In the Application Server pre-7.0 version, dump the databases.
3. Uninstall Strategy Management.
4. Clean up files.
5. Rename Isserver.ini in the Windows directory.
6. Install and deploy Strategy Management 7.0.
7. Recreate any Application Server users previously defined using the CREATE USER command.
8. Copy the dumped files to the new installation location.
9. Configure Strategy Management according to the *Server Configuration Guide for SAP Strategy Management SP02 and higher*.

Upgrade

10. Update Isserver.ini
11. Create new databases in version 7.0 for every database you dumped in pre-7.0.
12. Issue a SET CHARSET EXTIN ASCII command to establish the correct character set.
13. Load the pre-7.0 dump files into the new 7.0 databases.
14. Issue a SET CHARSET EXTIN SESSION command to reset the character set.
15. Upgrade Interactive Publisher.

3.4 Planning to use pre-7.0 databases in version 7.0

If you do not have the capacity to rebuild your databases or dump and load them due to size or time constraints, you can upgrade your pre 7.0 databases so that they can run in 7.0 without using the UTF8 format for storing characters.

Use the *Upgradedb* tool to upgrade an existing database and convert all the internal structures. This method takes advantage of changes related to increasing the byte size of characters from 24 to 96 but it does not use UTF8 characters.

Process flow**Prepare**

1. Back up all pre-7.0 databases.
2. Uninstall the pre-7.0 version of Strategy Management.
3. Clean up files.
4. Rename Isserver.ini in the Windows directory.
5. Install and deploy Strategy Management 7.0.
6. Create a UTF8 directory in the \SAP\SSM\ApplicationServer\data directory and copy all files from \data to \UTF8 as backup.
7. Copy all the files from \SAP\SSM\ApplicationServer\data\NON-UTF8 and put them in the \SAP\SSM\ApplicationServer\data directory.
8. Copy all the backed up pre-7.0 databases to the \SAP\SSM\ApplicationServer\Data directory, including MASTERDB and CGLIB.

Upgrade

9. Update Isserver.ini.
10. Run the *Upgradedb* tool for the pre-7.0 databases.
11. Run the *Upgradedb* tool for your pre-7.0 MASTERDB which now exists in the \data directory.
12. Run a COMPILEALL;TBDB on your upgraded databases. You must perform a COMPILEALL;TBDB on all compiled dimensions, procedures, time sets, and so on.
13. Upgrade Interactive Publisher.

4 Preparation

4.1 Preparing Application Server

4.1.1 Backing up the databases

By now you have reviewed the section about *Planning* in this Guide, and you have decided how you want to use your pre-7.0 Application Server databases in version 7.0.

Whichever method you choose, you must back up all your pre-7.0 databases to prepare for their use in version 7.0.

In addition, if you will be completely rebuilding your databases in the new version, you must also back up all procedures for building the databases.

4.1.2 Dumping the databases

During the *Planning* phase, if you decided to dump and load your databases as your method of using pre-7.0 databases in version 7.0, follow these steps.

Procedure

1. If you have manually generated dimensions, review the dimension sets and make sure the CLASS and LEVEL statements are placed before any rules for consolidation in the databases you want to dump. If you do not place the statements properly, the database will not load to the current database version of Application Server. For example, place them directly after the INPUTS, OUTPUTS, and RESULT dimension members and before the first consolidation rule for consolidated members.
2. Log into the pre-7.0 version of Application Server as the Administrator. Make sure that you have file privileges to write to the databases in MASTERDB.
3. Enter the following commands, where *<database>* is the database you want to dump from the pre-7.0 version, and *<databasedmp>* is the dump file to contain the contents of the database.

```
USE <database>  
DUMP <databasedmp>
```

4. Repeat this step for each database you want to use in the new version. Also dump SMREPORT and CGLIB (if you have one).
5. Create a dump file of MASTERDB using the CREATE keyword so that Application Server will automatically re-create the databases when you load the dump file. The MASTERDB dump file contains all database and user ID definitions from the earlier version of MASTERDB.

Enter the following command to dump the earlier version of MASTERDB into a dump file, where *<masterdmp>* is the name of the MASTERDB dump file:

```
SUPERVISOR DUMP <masterdmp> CREATE
```

4.1.3 Backing up Application Server files

Although the Application Server Uninstall program does not remove CGLIB, MASTERDB, SMREPORT, you should back up these files before you uninstall.

Procedure

1. Copy the following files located on the Windows server or Linux/UNIX server where Application server is installed to a backup location. On a Windows server, the files are located in \Program Files\SAP\VSSM\ApplicationServer\data. On a Linux/UNIX server, the files are located in the data directory in the installation location. Application Server may be on the same Window server as Interactive Publisher.

CGLIB	Contains User-Defined Hierarchies.
MASTERDB	Catalog of models, users, and other important system information.
SMREPORT	Contains procedures from saved reports.

2. If you customized any files that are put down by the installation, copy those files to a temporary location. For example, if you created your own timesets in APLIB, copy APLIB to a temporary location.
3. If you are using the Access LSLink subsystem to retrieve data from a relational data source and you have an lsdal.ini file, copy lsdal.ini and lsdal.cnf to a backup location.
4. If you are running Application Server on a Windows client or Windows server, back up the Lsserver.ini file located in the Windows directory.
5. If you are running Application Server on a Linux/UNIX server, copy the following shell scripts to a temporary location:

batchlss.csh
lsstcp.sh
runlss.csh
runlss.ksh
batchlss.ksh

4.2 Preparing Interactive Publisher

4.2.1 Stopping services

Procedure

1. On the Windows server where Interactive Publisher is installed, go to *Administrative Tools* → *Services*.
2. Stop the *Pilot Extended Listener*.
3. Stop the *JBoss Service*.
4. Stop *IIS Admin* services.
5. If Application Server is installed on a Windows server, go to *Administrative Tools* → *Services* and stop the *Pilot Listener*.
6. If Application Server is installed on a UNIX/Linux server, log in as root and stop the Application Server TCP/IP Listener daemon by running the following:

```
tldstop
```

4.2.2 Backing up files

Although the Uninstall programs do not remove pilot.db, bookmark.db, and <scorecard_dbname>.db, you should back up these files before you uninstall.

Procedure

Copy the following files located on the Windows server to a backup location.

Pilot.db	Contains Interactive Publisher project information.
Bookmark.db	Contains information from saved reports.
<scorecard_dbname>.db	Scorecard database containing information about your scorecard implementation. Back up all <scorecard_dbname>.db files. If you used pw.db as the filename for your Strategy Management scorecard database, then be sure to make a copy of this file before you uninstall because pw.db is removed during the uninstall routine.
<ea_dbname>.db	Entry and Approval database containing information about your Entry and Approval implementation if applicable.
modeldescriptions.txt	If you modified this file to provide model connection names and descriptions for the <i>Create Report</i> dialog box in the Reports component and the <i>Add/Edit Dashboard Panel</i> dialog box in the Dashboard component, then back up this file located in \Program Files\Pilot Software\Common\internet\pilotworks. This file will be deleted during the uninstall. In the new version of Strategy Management, you will need to recreate the model descriptions in the <i>Administration</i> → <i>Manage Models</i> section of the Administrator's user interface. You can refer back to this file to copy the descriptions. If you did not modify the file and you are not using model connection descriptions in the user interface, you do not have to back up this file.
Pilotworks.js	Located in the \Program Files\Pilot Software\Common\internet\pilotworks directory. Most settings from this file will now exist in the Global Properties of SAP NetWeaver Administrator when you install Strategy Management 7.0. You may want to refer to the settings when configuring your global properties.
customized files	Any files you customized that are put down by the installation.

4.2.3 Backing up Registry settings

Back up your Registry settings so that you can restore them after the installation. The Registry settings are stored here:

```
HKEY_LOCAL_MACHINE
  SOFTWARE
    Pilot Software
      Pilot Interactive Publisher
```

4.2.4 Dumping model connection information

Model connection information is now stored in SAP NetWeaver CE System Database. To transport the model connection information from the previous version to the new version, you will need to use the Table Editor to dump this information in the pre-7.0 version so you can load it into Strategy Management 7.0. For information about the Table Editor, see the *Administrator's Guide for SAP BusinessObjects Strategy Management Interactive Publisher and Application Components on Service Marketplace*.

Procedure

Use the Table Editor to dump the model connection information and the users of the model connections from pilot.db tables:

1. Open a DOS window.
2. cd to the directory where ted.exe is located at \Program Files\Pilot Software\Common\internet.
3. At the DOS prompt, type these commands to dump all model connections and user information to text files. Make sure you type the right angle bracket directly next to the filename. For example, ted -dc >sample.txt.

```
ted -dc ><modelconnection_file>.txt
```

```
ted -du ><user_file>.txt
```

The files will be created in the same directory as the Table Editor unless you provide a specific path.

4. (For Chinese, Japanese, Korean users working in double-bytes) Save the source file as UTF8 encoding.

4.3 Uninstalling

4.3.1 Uninstalling Interactive Publisher and Strategy Management Application Components

The *Uninstall* program tries to remove or reverse all changes made to the system by the *Setup* program. Depending on the OS settings, you may need to reboot the system after uninstalling.

Procedure

1. From the Windows Control Panel, select *Add/Remove Programs* to display the *Add/Remove Program Properties* dialog box.
2. Select *Application Components*. Click *Remove*. At the confirmation prompt, click *Yes*.
3. Select *Interactive Publisher*. Click *Remove*. At the confirmation prompt, click *Yes*.
4. Select *Demo Components*. Click *Remove*. At the confirmation prompt, click *Yes*.

4.3.2 Uninstalling Application Server

Procedure

Application Server on a Windows server

1. From the Windows Control Panel, select *Add/Remove Programs* to display the *Add/Remove Program Properties* dialog box.
2. Select *Application Server*. Click *Remove*. At the confirmation prompt, click *Yes*.

End of Application Server on a Windows server explanation

Application Server on a Linux/UNIX server

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 this line where `nnnn` is a number such as 2001 or 8325. That number varies depending on the version of the software you have installed:

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

End of Application Server on a Linux/UNIX server explanation

Files not removed by the Uninstall program

The Uninstall program does not remove the following:

- `Lsserver.ini`
- `AddUser` sample file in the `\internet\data` directory. This sample file shows how to add users to the user table in your scorecard database.
- Files created on the server such as dimensional models.
- Files currently in use by other programs.
- Directories that were created by the Setup program that contain user-created files.
- Special files that contain project information such as `pilot.db`, `bookmark.db`, `CGLIB`, `SMREPORT`, `MASTERDB`.
- Interactive Publisher Work database files.
- `.GID` files

4.4 Cleaning up upgrade files and cache files and removing `schedule.db`

Procedure

1. Clean your browser cache on the Windows server and on all client machines.
2. Delete all the files in the `\Program Files\Pilot Software\Common\internet\cache` directory.
3. Delete `schedule.db` in the `\Program Files\Pilot Software\Common\internet\data` directory.
4. In the `\Program Files\Pilot Software\Common` directory, delete all `*.GID` files. These are online Help-related cache files that are not deleted when uninstalling Strategy Management. These files will be recreated the next time you start online Help.

4.5 Cleaning up Work database files in Windows Explorer

Procedure

1. In the \Program Files\Pilot Software\Common\home directory, select all the Work database files, right-click, and then choose *Delete* from the floating menu. Work databases have the following filenames: <web_authentication_name><model>.
2. In the \Program Files\Pilot Software\Common\home directory, select all the DB* files, right-click to display the floating menu, and then choose *Delete*.

4.6 Renaming Isserver.ini

Rename the Isserver.ini file in the Windows directory. During the installation, a new Isserver.ini file will be installed in the Windows directory and you will be able to merge the changes from the previous file to the new file.

4.7 Installing and deploying Strategy Management 7.0 SP0x

Install the latest version of Strategy Management 7.0. For information, refer to the *Server Installation Guide for SAP Strategy Management 7.0 SP02 and higher*.

4.8 Recreating Application Server users

If you will be rebuilding your databases, or if you will be loading your dumped pre-7.0 databases into version 7.0, then you will need to recreate any Application Server users previously defined. Use the CREATE USER command to create your users in the new version of MASTERDB. See the online Help in the Application Server Administrator's program for information.

If you will be using your pre-7.0 databases in version 7.0, you do not need to recreate your users because you will be using the pre-7.0 version of MASTERDB.

4.9 Copying backed up files to the new installation location

4.9.1 Copying backed up files

Procedure

1. If you backed up any customized files, copy them back to their appropriate directories.
2. If running Application Server on a Windows server, compare the new versions of Lsserver.ini, Lsdal.ini, and Lsdal.cnf to the backed up files and copy/edit any necessary information into the new files.
3. If running Application Server on a Linux/UNIX server, copy the shell scripts back to their appropriate directories. Verify that the directory path assigned to LSSHOME is correct for the current install.

- If you previously saved the Registry settings according to the section *Backup considerations*, copy the file back into the appropriate location. Registry settings are stored in the following path starting in Strategy Management 7.0:

```
HKEY_LOCAL_MACHINE
  SOFTWARE
    SAP
      SSM
        InternetPub
```

- Do not copy your backed up scorecard database files, bookmark database files, or Entry and Approval database files yet. You will do so during the *Upgrade* process.
- Copy the model connection files and user files you dumped with the Table Editor to <drive>:\Program Files\SAP\SSM\InternetPub.

4.9.2 Copying files for sites planning to rebuild their databases

If you plan to rebuild your Application Server databases, copy the build procedures to the new installation location.

4.9.3 Copying files for sites planning to dump and load their databases

If you dumped your pre-7.0 databases and plan to load them into the new version, copy the dumped files to the \Program Files\SAP\SSM\ApplicationServer\Data directory.

4.9.4 Copying files for sites planning to use pre-7.0 Application Server databases in version 7.0

Procedure

- Copy the pre-7.0 databases, CGLIB, and MASTERDB from the back up location to \Program Files\SAP\SSM\ApplicationServer\Data.
- Create a UTF8 directory in the \SAP\SSM\ApplicationServer\data directory and copy all files from \data to \UTF8 as backup.
- Copy all the files from \SAP\SSM\ApplicationServer\data\NON-UTF8 and put them in the \SAP\SSM\ApplicationServer\data directory. The non-UTF8 directory will be deleted during an uninstall so it is not wise to keep any important databases there. If you plan to upgrade your pre-7.0 MASTERDB and CGLIB files, they do not need to be copied during this step.

4.10 Configuring Strategy Management

Procedure

Configure Strategy Management. For information, refer to the *Server Configuration Guide for SAP Strategy Management 7.0 SP02 and higher*.

5 Upgrade Process

This chapter discusses how to upgrade from Strategy Management 2007 to the latest version of Strategy Management 7.0.

Prerequisite

You have completed the tasks in the *Planning* and *Preparation* sections of this Guide. This includes backing up the appropriate files, uninstalling the pre.7.0 version, installing and deploying Strategy Management 7.0, configuring Strategy Management 7.0, and copying backed up files to the appropriate locations in the new version.

5.1 Upgrading Application Server

5.1.1 Updating Isserver.ini

During the preparation process, you were instructed to rename the Isserver.ini file in the Windows directory. When you installed Strategy Management 7.0, a new version of Isserver.ini was installed in the Windows directory. Now you can merge your changes from the previous version into the new version.

The installation location has changed from \Program Files\Pilot Software\Common to \Program Files\SAP\SSMApplicationServer in version 7.0. At a minimum, you will need to edit the Isserver.ini file to fix any pathing issues.



If Application Server detects an existing Isserver.ini during the installation, it doesn't install a new copy. Application Server will use the original copy of Isserver.ini, but the pathing will not be updated to account for the new installation location.

5.1.2 Updating Application Server databases

In the Planning process, you decided how you want to use your pre-7.0 databases in Application Server 7.0. This section covers how to upgrade the databases for each method.

5.1.2.1 Rebuilding the databases

It is recommended to rebuild your databases in Application Server 7.0. This way, you take advantage of the increased limits and enhanced character support.

Prerequisites

Your pre-7.0 build procedures are copied to the new installation location of Strategy Management 7.0 as described in the *Preparation* section of this Guide.

Procedure

Run the build procedures to build the databases.

5.1.2.2 Loading databases that have been dumped

If you dumped your databases in the pre-7.0 version of Application Server, you can load them into Application Server and take advantage of all the new database features.

Prerequisites

Your pre-7.0 dump files are copied to the new installation location of Strategy Management 7.0 as described in the *Preparation* section of this Guide.

Procedure

1. Start Application Server Administrator 7.0 and log in as `admin`.
2. Create a database for every database you dumped in the pre-7.0 version using the `SUPERVISOR CREATE DATABASE` command.
3. Enter the following command to establish the correct character set:

```
SET CHARSET EXTIN ASCII
```
4. Enter this command to use a database and load its dump file, where `<database>` is the database you want to load, and `<databasedmp>` is the dump file you created for that database.

```
USE <database>  
LOAD <databasedmp>
```

5. Repeat this step for each database you want to upgrade.
6. Enter the following command to reset the character set:

```
SET CHARSET EXTIN SESSION
```

5.1.2.3 Using pre-7.0 databases in version 7.0

If you do not have the capacity to rebuild your databases or dump and load them due to size or time constraints, you can upgrade your pre 7.0 databases so that they can run in 7.0 without using the UTF8 format for storing characters.

Prerequisites

You have completed the preparation steps in the *Preparation* section of this Guide.

Procedure

1. Run the *Upgradedb* tool for the pre-7.0 databases. The *Upgradedb* tool is described in the next section.
2. Run the *Upgradedb* tool for your pre-7.0 MASTERDB which now exists in the `\data` directory.
3. Run a `COMPILEALL;TBDB` on your upgraded databases and all compiled dimensions, procedures, time sets, and so on. If a user attempts to use an upgraded database in Application Server 7.0 whose dimensions, time sets, procedures and so on have not been compiled, the user will get an error asking them to recompile any dimension, time set.



If at a later time you want to convert these databases to UTF8, you would need to rebuild them by recreating them. You would not be able to use the DUMP and LOAD method of rebuilding databases because once you run *Upgradedb*, you cannot use the databases in the pre-7.0 version of Application Server to do a DUMP.

Upgradedb tool

Upgradedb is a command line tool that you run from a command window on Windows or a telnet or XWindows command line on UNIX.

The syntax is:

On Windows

```
upgradedb -inifile <ini-file-name> <database-name>
```

<ini file name> Application Server ini file, usually *Isserver.ini*. This file points to the non-UTF8 MASTERDB, TBDB, and databases.

<database name> Name of the database to upgrade, such as MASTERDB or JUICE as defined in *Isserver.ini*.

End of explanation on Windows

On UNIX/Linux server

```
upgradedb <database name>
```

Shell variables must be set to point to the non UTF8 MASTERDB, TBDB, and databases.

<database name> Name of the database to upgrade, such as MASTERDB or JUICE, as defined in the shell script.

End of explanation on a UNIX/Linux server

After an upgrade, a database might be slightly larger. At the start, *Upgradedb* will check to see if there is any free space in the database and if the amount of free space is less than 5% will extend the database by 5% just to make sure that there is sufficient space.

If there is any error in the upgrade, the database will be rolled back to its original state and will not be upgraded. This might be caused by a disk problem such as a disk becoming full or other system error.

If there is a crash or GPF running *Upgradedb*, the database could be left in a halfway converted state and would then be unusable in either an old SSM or 7.0. That is why it is strongly advised to back up all databases beforehand.

5.1.3 Upgrade issue with internationalization of Hybrid OLAP Transformer text

All error and trace messages output by the Hybrid OLAP Transformer are stored in the TBDB database that is part of the Application Server installation. The name of the file is *TBDB.lng*, where *lng* stands for the language you are running (for example, *TBDB.DEU*). Although the Transformer text in all TBDB files appears in English, the files may contain information specific to the language version and cannot be replaced with the English version (*TBDB.ENG*). You must specify the location of the TBDB database when running the Transformer, just as you would for Application Server, as follows:

Application Server on Windows server

Intel versions of Transformer require a [Windows] section to be added to the Transformer parameter file, with a single line "TBDB=<full path to TBDB.lng>", for example:

```
[Windows]
TBDB=C:\PROGRAM FILES\SAP\SSM\APPLICATIONSERVER\DATA\TBDB.ENG

[LoadProduct]
Loading=Dimension
Table=Product
```

End of Application Server on Windows server

Application Server on an HP-UX, AIX UNIX, or Sun Solaris Linux/UNIX server

Make sure the TBDB location is specified in an environment variable. For example:

```
$ TBDB=/data/TBDB.ENG;export TBDB
$ sgtrans -inifile /data/sgtrans.ini -s LoadProduct
```

End of Application Server on HP-UX, AIX UNIX, or Sun Solaris Linux/UNIX server

5.2 Upgrading Interactive Publisher

Process Flow

1. The structure of the Strategy Management scorecard databases has changed between version 2007 and 7.0. The conversion of 2007 scorecard databases to version 7.0 requires the involvement of Strategy Management Support at SAP.
 - a. You need to enter a CSS ticket and submit all your scorecard, bookmark, and Entry and Approval databases to Strategy Management Support.
 - b. In return, you will receive a ZIP file containing application data to import into Strategy Management and two TXT files containing user and group information to load into UME.
2. Run the Transporter utility to import the ZIP file provided by Strategy Management Support into Strategy Management 7.0.
3. Run UME in SAP NetWeaver Administrator to import the Strategy Management PWDS system users and groups using the text files provided by Strategy Management Support.
4. Run the Table Editor to import previously dumped model connection information into Strategy Management 7.0.
5. (For Entry and Approval users) Rename the *Metrics Manager* application group to *Entry and Approval*. This application group is case sensitive so use the exact case specified here, including spaces.
6. (For Entry and Approval users) Reset the fiscal year start.

5.2.1 Submitting your databases to SAP for conversion

The conversion of all 2007 scorecard databases, bookmark databases, and any Entry and Approval-related databases requires the involvement of Strategy Management Support at SAP.

You must send all your scorecard databases, bookmark databases, and any Entry and Approval databases for cubes referenced in the scorecard database to Strategy Management Support at the same time so that they can be converted and returned to you. Because these files are converted at the same time, any files not provided will not be able to be updated at a later date. Therefore, it is important to ensure that all database files are provided for the conversion to be performed successfully.

Prerequisites

You backed up all your scorecard, bookmark, and Entry and Approval databases during the preparation phase of the upgrade process.

Procedure

1. Enter a CSS message with the following criteria:
 - Component: *CPM-STM-PIP*
 - Short Text: *PWDB conversion*

2. If you are able to attach a ZIP file to the CSS message containing your database files, please do so. If your database files are too large to attach, indicate that you are unable to attach your files to the message and you will be contacted with further instructions. You must submit all your database files at the same time, which includes the following:

<scorecard_dbname>.db	(this is typically named pw.db)
<bookmark_dbname>.db	(this is typically named bookmark.db)
<e&a_dbname_1>.db	(applicable if you have an Entry and Approval implementation)
<e&a_dbname_n>.db	(The number of Entry and Approval databases depends on how many Application Server cubes are defined for Entry and Approval within the particular scorecard database.)

Result

You will receive the following files from SAP which you will be importing into Strategy Management in the proceeding topics:

<scorecard_dbname>.zip	(Contains converted application data converted and ready to import into Strategy Management using the Transporter utility.)
<bookmark_dbname>.zip	(Contains converted application data converted and ready to import into Strategy Management using the Transporter utility.)
<e&a_dbname_1>.zip	(Applicable only to Entry and Approval implementations. Contains converted Entry and Approval application data converted and ready to import into Strategy Management using the Transporter utility.)
<e&a_dbname_n>.zip	(Any additional Entry and Approval databases depending on how many Application Server cubes are defined for Entry and Approval within the particular scorecard database.)
<scorecard_dbname>_Users.txt	(Contains converted system user information ready to import into UME in SAP NetWeaver Administrator.)
<scorecard_dbname>_Groups.txt	(Contains converted system group information ready to import into UME in SAP NetWeaver Administrator.)

5.2.2 Importing converted application data using the Transporter utility

Prerequisite

You are the administrator of Interactive Publisher.

You received the following ZIP files to import into the SAP NetWeaver System database using the Strategy Management Transporter utility:

<scorecard_dbname>.zip	
<bookmark_dbname>.zip	
<e&a_dbname_1>.zip	(if you have an Entry and Approval implementation)
<e&a_dbname_n>.zip	(Any additional Entry and Approval databases depending on how many Application Server cubes are defined for Entry and Approval within the particular scorecard database.)

Procedure

1. Run the Tools utility. To do so, open this URL in a browser window:
`http://<nwce_server>:<port>/strategy/tools`
2. Click *Transporter*.
3. Click *Browse* to browse for the first ZIP file provided by SAP.
4. Click the *Import into Database* button.
5. In turn, import all ZIP files provided by SAP.

5.2.3 Loading PWDS users into UME

All Strategy Management users must be stored in SAP NetWeaver Administrator's UME. You must load these users into UME so that they are known to the Strategy Management system.

If your system users and groups were populated using PWDS in the pre-7.0 version of Strategy Management, then follow the steps in this topic.

If you used LDAP/ActiveDirectory in the pre-7.0 version of Strategy Management 2007, then this topic does not apply to you. You must configure UME to pull user and group information from LDAP or ActiveDirectory.

Prerequisite

You are the administrator of SAP NetWeaver Administrator.

Your system users and groups were populated using PWDS in the pre-7.0 version of Strategy Management.

When you submitted your scorecard databases for conversion, you received a <scorecard_dbname>_Users.TXT file and a <scorecard_dbname>_Groups.TXT file from SAP containing system user and group information converted from version 2007 to 7.0.

You received the following TXT files which will be imported into UME:

<scorecard_dbname>_Users.txt

<scorecard_dbname>_Groups.txt

Procedure

1. Start SAP NetWeaver Administrator.
2. Go to the *Identity Management* section.
3. Click *Batch Import* and browse for the <scorecard_dbname>_Users.txt file provided by SAP Support. Click *Upload* to upload the PWDS users into UME.
4. Click *Batch Import* and browse for the <scorecard_dbname>_Groups.txt file. Click *Upload* to upload the PWDS groups into UME.



Users will need to change their password during the first access of 7.0.

5.2.4 Loading model connection information

During the *Preparation* phase, you dumped model connection information from the pre-7.0 version using the Table Editor. Now you can load that information into Strategy Management 7.0. For more information about the Table Editor, see the *Administrator's Guide for SAP BusinessObjects Strategy Management Interactive Publisher and Application Components* on Service Marketplace.

Prerequisite

You are the administrator of Interactive Publisher.

(For Chinese, Japanese, Korean users working in double-bytes) You have saved the dumped files as UTF8 encoding.

The dumped model connection and user files were copied to <install-dir>\SAP\SSM\InternetPub during the *Preparation* phase.

Procedure

1. Open a DOS window.
2. cd to the <install-dir>\SAP\SSM\InternetPub directory where ted.exe is located.
3. Open the <modelconnection_file>.txt in a text editor and include an "-a," at the beginning of each line.

The -a, parameter adds the model connection as a new record.

The syntax of the model connection definitions in the file is as follows:

```
-a,<model-connection>,<pas_user>,<pas_pwd>,<server_machine>,  
<server_port>,<server_inifile>,<server_user>,<server_pwd>,  
<max_instances>,<min_instances>,<service>,<use_db>,0|1
```

4. For each line, edit <pas_pwd> and <server_pwd> to re-enter the correct passwords in plain text. If a particular username does not use a password, you still must account for it by leaving the field blank but including the comma separator.

For example, `admin,,localhost` represents an Application Server user admin with no password and with PAS running on the same system as Interactive Publisher.

Password values will be encrypted when the records are written to the database.

5. Open the <user_file>.txt in a text editor and include an "-a," at the beginning of each line.

The -a, parameter adds the user as a new record.

The syntax of the user definitions in the file is as follows:

```
-a,<model-connection>,<web_user>,<pas_user>,0|1
```

6. At the DOS prompt, type these commands to load all model connection and user information into Strategy Management:

```
ted -c <modelconnection_file>.txt
```

```
ted -u <user_file>.txt
```

The model connections and users are added to Strategy Management.

5.2.5 Updating the Metrics Manager application group

You must follow the steps in this topic if you are using Entry and Approval. If you do not have Entry and Approval, you can skip this section.

The *Metrics Manager* application group is now renamed to *Entry and Approval*. You must rename the group using the new name.

Procedure

1. In the Administrator's user interface, go to *Administration -> Manage Application Groups*.
2. Select the *Metrics Manager* application group and click *Rename*.
3. Type the name *Entry and Approval* and click OK. Make sure you use the exact case shown here and include the same spacing.
4. Click *Save*.

5.2.6 Resetting the Fiscal Year Start

The database structure of the Entry and Approval database files changed in SAP Strategy Management 2007 Support Package 1.

If you are upgrading your Entry and Approval from Strategy Management 2007, then you must perform these steps to upgrade your databases. These steps are required even if your company's fiscal year starts in January.

If you are upgrading from a version later than Strategy Management 2007 Support Package 1, you can skip this section.

Procedure

1. Launch the Administrator.
2. In the *Entry and Approval* section, select *Set Entry and Approval Defaults*.
3. From the *Select Models* list, select the first model you want to verify.
4. From the *Fiscal Year Start* drop-down list, select the month that begins the fiscal year for the Application Server database. You must do this even if the fiscal year starts in January.

5.3 Upgrading custom HTML files using @(type) tags

If you created custom applications in the pre-7.0 version of Interactive Publisher, you will need to convert any HTML files that used @(type) tags to JSP pages that use JSP-equivalent tags.

This table shows the changes:

Pre-7.0 @(type) tag	7.0 JSP tags
@(type=array)	array
@(type=cgivvariable)	cgi
@(type=context)	
@(type=generate)	generate
@(type=hidden)	
@(type=include)	
@(type=isadmin)	
@(type=level)	
@(type=newline)	
@(type=option)	
@(type=radio)	
@(type=security)	
@(type=select)	
@(type=session)	
@(type=space)	
@(type=state)	
@(type=stream)	pip
@(type=submit)	
@(type=user) (pipadmin tag)	
@(type=userlist) (pipadmin tag)	
@(type=variable)	
	Property

5.4 Restarting services

Procedure

1. On the Windows server where Interactive Publisher is installed, go to *Services* → *Administrative Tools* and start the *SAP SSM Extended Listener*.
1. If Application Server is installed on a Windows server, go to *Services* → *Administrative Tool* and start the *SAP SSM Listener*.
2. If Application Server is installed on a UNIX/Linux server, log in as **root** and start the Application Server TCP/IP Listener daemon. Go to the directory where the Application Server components are installed. For example:

```
cd /opt/sap/ssm
```

- Run the shell script to start the *Listener*:

```
sh tldgo
```

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 May 07 08:59:15 2008
lsstld: daemon initialization completed at Wed May 07 08:59:15 2008
*****
```

5.5 Upgrading the user interfaces

Starting in Strategy Management 7.0, the SAP Scheduler is used for the *Configure Scheduler* section of the Administrator's user interface rather than the Quartz scheduler provided during previous Strategy Management installations. If you defined schedules in a prior version of Strategy Management, you must redo your schedules. Otherwise, you will encounter problems with scheduled alerts.

Prerequisites

You are the administrator of Strategy Management.

Procedure

- Start the Administrator's user interface using this URL:
`http://<nwce_server>:<port>/strategy/administration`
- Click *Configure Scheduler*.
- Record the schedule definitions for each schedule you have set up.
- Delete each schedule.
- Recreate each schedule.

5.6 Recreating model descriptions

During the backup process earlier in this guide, if you followed the steps to back up the `modeldescription.txt` file because you are showing model descriptions in the Strategy Management application, you can now recreate the model descriptions in the Administrator.

Prerequisites

You are running the Administrator as the administrator of Strategy Management.

Procedure

- Click *Administration* → *Manage Models*.
- Select the model whose description you want to recreate.
- In the *Description* text box, type a description for this model and click *Update*.

6 Follow-Up Activities

If you are using Excel Add-In or Diagram Manager, refer to the *Client Installation Guide for SAP BusinessObjects Strategy Management Excel Add-In* and the *Client Installation Guide for SAP BusinessObjects Strategy Management Diagram Manager* to learn how to uninstall, then install and upgrade a new version.