Installation Guide SAP BW Precalculation Service for Microsoft Excel

7.40 Version 1.0.0

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1 Introduction

1.1 Before You Start

The following sections provide information about:

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

1.1.1 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:

service.sap.com/notes.

SAP Note Number	Title
1995531	BI 7.x tools in 740 - General Information & Limitations
1145589	BW/BI 7.X PreCalculation Service delivery schedule
1995537	BW 7.X Precalculation in 740 - General Info. & Limitations

1.1.2 Information Available in SAP Service Marketplace

Information on the following areas is available in the SAP Service Marketplace.

Description	Internet Address
SAP Notes	service.sap.com/notes
Released platforms	service.sap.com/platforms
Wiki	http://wiki.sdn.sap.com/wiki/x/CYe-Eg



Make sure that you read Installation – Step by Step before you start your installation

2 Preparation

2.1 Hardware and Software Requirements

The host machine must meet the following requirements:

SAP Note 1995532 - BI 7.x tools in 740 - HW\SW requirements

Requirement Type	Requirement	
Hardware requirements	Your system should meet all requirements for Windows	
	XP or Windows Servers (in case of Servers).	
Software requirements	The following softwares are supported:	
	• Vista ,7 (32/64 BIT) , 8 (32/64 BIT), 8.1 (32/64 BIT)	
	Windows Server 2003 (32/64 BIT)	
	Windows Server 2008 (32/64 BIT)	
	Windows Server 2008 R2	
	Microsoft .Net Framework 2.0	
	Microsoft Excel 2003 or higher	
	Ensure that the installation source is available for the first precalculation, because Excel must be configured for the system user. More information is available in Microsoft Knowledge Base Article 257757. • SAP GUI 7.40 Precalculation may fail in case of Windows servers with Microsoft Excel 2007. For more details check note 1619110	

2.2 Installation Preparations

Perform the following prerequisite steps:

- Install Microsoft .Net Framework 2.0
- Install BW Frontend 7.X with SAP GUI 7.40. SAP is not delivering BW 3.5
 Precalculation Server anymore. Please deinstall BW 3.5 Precalculation Server, if it is
 present in the system.
- Make sure to deinstall any previous installation of 7.X precalculation server. To know more about how to deinstall the server, please refer chapter 7.

3 Installation

3.1 Installing the Service on Windows

Use

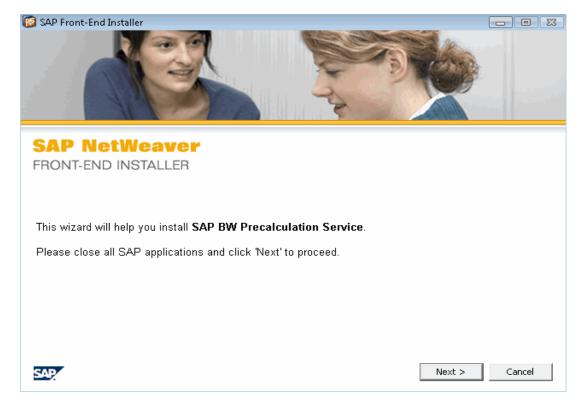
This section describes how to install the SAP component on released Windows platforms.

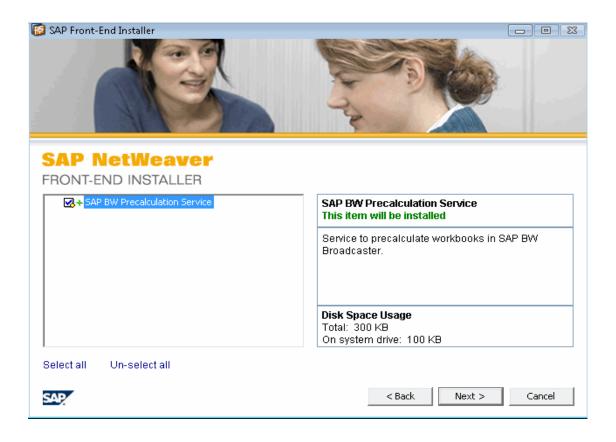
Prerequisites

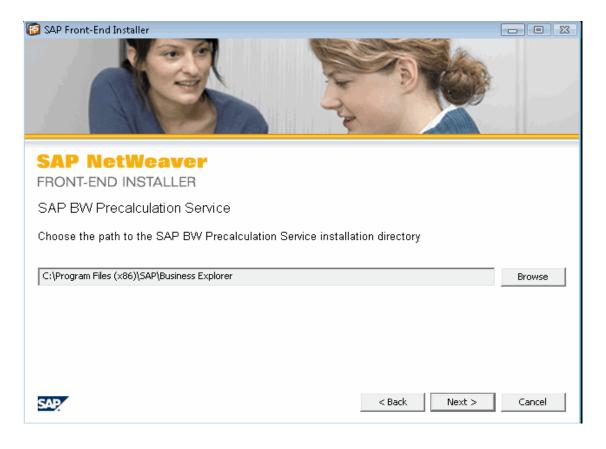
Make sure that the .Net Framework 2.0 is installed on the destination system. Also a SAPGUI 740 and BW Frontend 7.X must be installed. Please go through Additional Information section to decide on installation decisions.

Procedure

- 1. Log on to your host as user with administration rights.
- 2. Start the SapBiPcsSetup.exe from NetWeaver Presentation DVD.
- 3. Choose *Next* to run through the screens of the wizard and finish the installation:





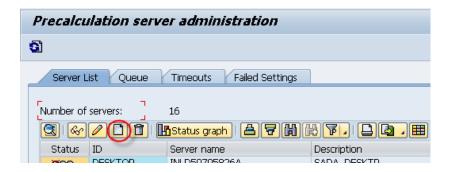


4 Post-Installation

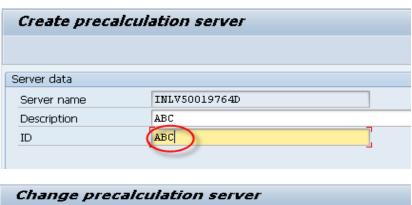
4.1 Starting the Service

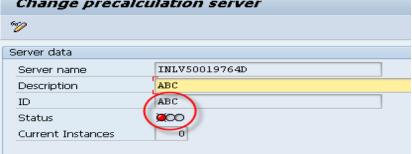
 Log on to the BW backend from the system where you have installed the software, call transaction RSPRECALCADMIN. It is still possible to use transaction RSPRECADMIN for precalculation administration. Perform the following steps:

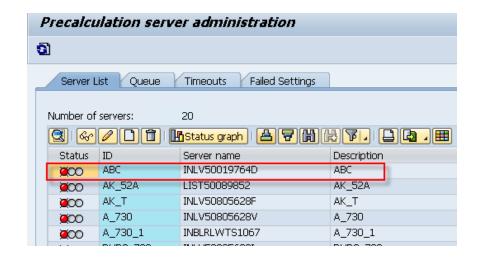
- a. Delete all previous 'instances of precalculation server' created on the same system. Make sure that note 1691677 is available in the system before deletion.
- b. Choose the *Create* pushbutton. The following screen will appear to provide the details:



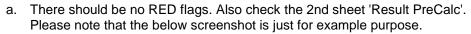
c. Enter a name for the server. The maximum length is 10 Chars. Click on Save button. The server should appear on the screen. The server will be *Offline* as shown below, since the **service** is not started:

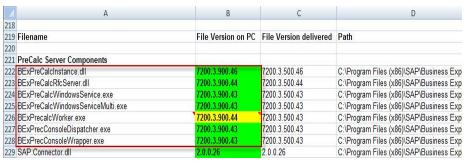






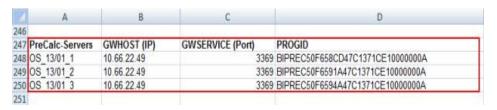
2. Please carry out an installation check at this point to confirm that installation was correct. Run the sapbexc.xla tool available with the DVD.





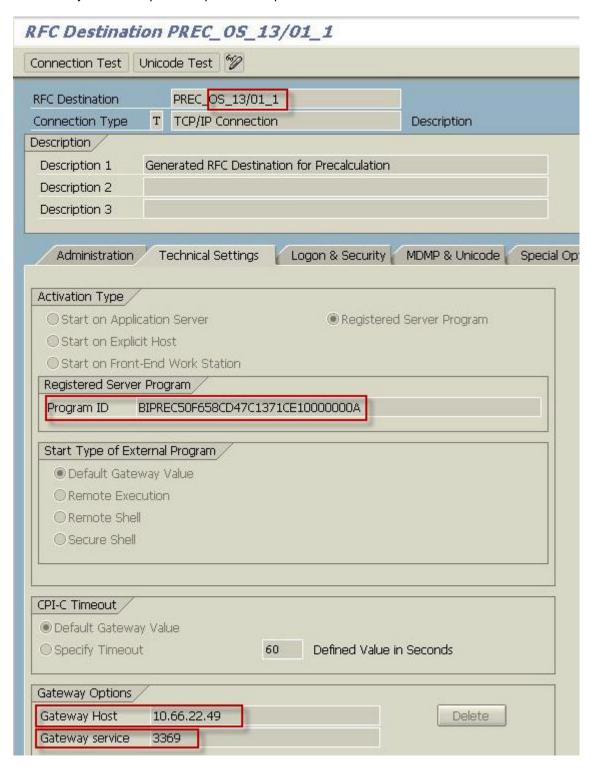
b. Following block shows the installed Precalculation Server instances. As recommend by SAP. The example shows 3 instances. If your result is empty then your installation is not correct.

If you see a hostname (eg. Bwp1.sap.com) instead if IPAddress(eg xxx.xxx.xxx) in column GWHOST(IP) implement note 1315171 and repeat step1



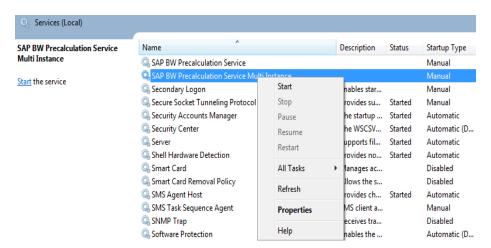
c. Go to SM59 and display the detail of the RFC destination under TCP/IP connection for the precalculation instance. Please compare the properties created in RFC destination with the information obtained in the installation

check for all the precalculation instances created in this system. In case you see any difference please repeat the step 1.

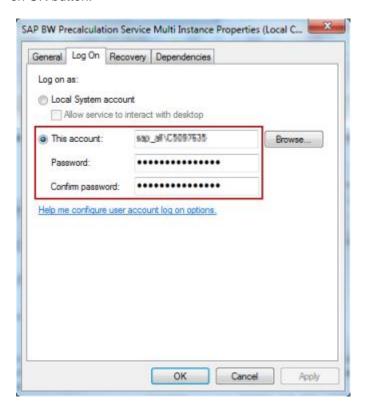


3. To start the service, go to the *Services* window of your operating system using services.msc in the *Run* command. Perform the following steps:

a. Search for the service called SAP BW Precalculation Service Multi Instance (Why Multi Instance?):



b. Open Properties dialog box double click on the service. In the Log On tab, select the radio button 'This Account' and provide the Logon details. Make sure that the "This account user" has full administrator rights. Do not run SAP BW Precalcualtion Service Multi-Instance with "Local system account"! Click on OK button.



c. Right click on "SAP BW Precalculation Service Multi Instance" and choose "Start".

Issues you may encounter when starting the Precalculation Service:

- If you get below mentioned error then set/change the parameter 'ServicesPipeTimeout' to 180000 as mentioned in 1705387.



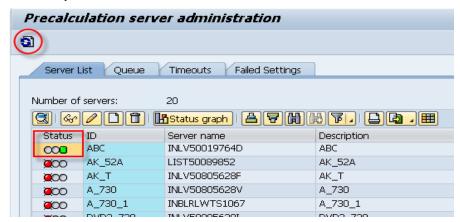
- If you get warning message "The SAP BW Precalculation Service MultiInstance service on local computer started and then stopped. Some services stop automatically if they have no work to do, for example, Performance Logs and Alerts service." follow the steps mentioned below:

Start → Control Panel → System and Security → Change User Account Control Settings, Set to Low.

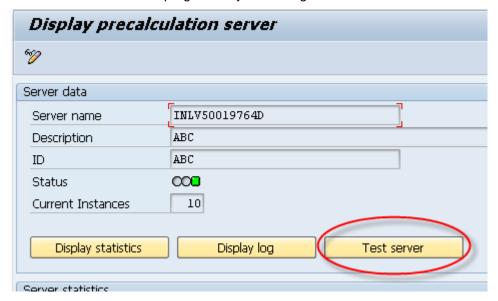
Restart the System.

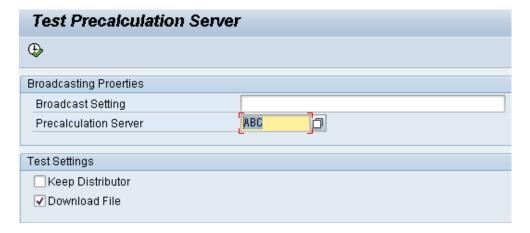
After performing the above steps, delete all the existing Precalculation server instances in the transaction "RSPRECALCADMIN" and recreate the Instance.

d. After you refresh the view [3], the status display for the precalculation server in RSPRECALCADMIN displays a green traffic light. The precalculation server is now ready for use.



You can double click on the server (eg: ABC) to access the test execution screen. You can use this program only for testing the Precalculation Server.



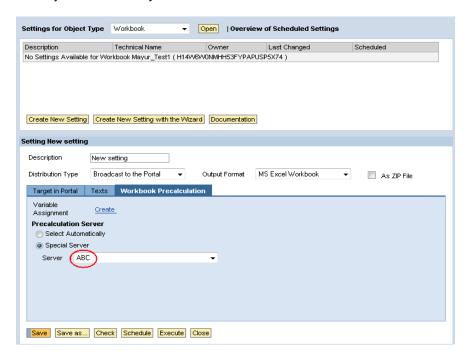


Please use the program RSRD_BROADCAST_BATCH/RSRD_BROADCAST_STARTER(i.e.txn: RSRD_START) for detailed testing and productive usage)

4.2 Using the Precalculation Service through the Portal

- 1. Log on to the portal of the system where you have created the server.
- 2. Go to Buisness Intelligence → BEx Broadcaster and select Workbook.
- 3. Create a new setting by selecting the target, and select the server you have created, as shown in the figure below. Use the option "Special Server" only for testing and once the test was successful it is recommended to use the option "Select Automatically" for load balancing. Make sure that the other instances are pointing to the current precalculation

service that you have installed now OR other precalculation service in another system which you have already tested.



4. Choose the Execute pushbutton.

5 Additional Information

- We recommend registering minimum one (Maximum 3) precalculation instances for one BW system.
- Please do not register precalculation instances from different BW system to the same Precalculation Server. In other words do not configure Precalculation Server to be used by different BW system.
- You should assign a specific user with full Administartive right to run the SAP BW
 Precalculation Service Multi Instance. Do not use 'Log on as' LocalSystem when using SAP BW Precalculation Service Multi Instance.
- Please use SAP BW Precalcualtion Service Multi-Instance with logon. Despite the recommendation of using SAP BW Precalculation Service Multi-Instance, if you want to use the windows service SAP BW Precalcualtion Service, then use with "Local system account" and the option "Allow service to interact with desktop". Again, it is recommended to use SAP BW Precalcualtion Service Multi Instance as it is more stable. If you want to use only one Precalculation Server Instance please use SAP BW Precalcualtion Service Multi-Instance and create only one Precalculation Server in Tx RSPRECALCADMIN this way should be prefered instead using SAP BW Precalcualtion Service.

Start only one service at a time: SAP BW Precalcualtion Service Multi-Instance OR SAP BW Precalcualtion Service.

These parameters MUST be set in your BW system.

RSADMIN parameter "BWPREC USE NEW LOAD" with value "X" as mentioned in note 1275837 for using SAP BW Precalculation Service Multi Instance. You can check this via Tx SE16 intable RSADMIN. If missing please use report SAP_RSADMIN_MAINTAIN via Tx SE38 to set the parameter in table RSADMIN.

Instance profile parameter "SAPLOCALHOSTFULL" with the full qualified host name of the server (= host name with appended domain name). Make sure that this parameter set correctly for each ABAB application server:

```
start Tx SM51
double click the instance
start Tx RZ11
enter Param. Name "SAPLOCALHOSTFULL" and click "Display"
```

6 Upgrading the Service (7.x to 7.40)

Before you upgrade, you must first stop the SAP BW Precalculation Service Multi Instance/SAP BW Precalculation Service and uninstall the old version of the service.

Stopping the SAP BW Precalculation Service

- 1. Choose Start \rightarrow Settings \rightarrow Control Panel \rightarrow Administrative Tools \rightarrow Computer $Management \rightarrow Services$ and Applications $\rightarrow Services$.
- 2. Select the SAP BW Precalculation Service Multi Instance/SAP BW Precalculation Service and choose Stop from the context menu.

This stops the service.



If messages appear while you are stopping the service, proceed as follows:

- 1. Select Terminal Service and choose Properties from the context menu.
- 2. Change the Startup Type to Manual.
- 3. Choose Apply and then OK.
- 4. Select SAP BW Precalculation Service Multi Instance and choose Properties from the context menu.
- 5. Change the Startup Type to Manual.
- 6. Select Apply and then OK.
- 7. Restart the computer. This stops the SAP BW Precalculation Service.

The status display, which displays *Started* when the service has been started, will be blank once the service has been stopped successfully. Now you can start to remove the program.

Removing the Old Version

- Choose Start → Settings → Control Panel → Add or Remove Programs resp.
 Programs and Features (depending on the version of the operating system).
- 2. Choose SAP BW Precalculation Service.
- 3. Choose Remove resp. Uninstall (depending on the version of the operating system).
- 4. Once you have removed the program, restart your computer.

Installing the New Version

- 1. Execute the SapBiPcsSetup.exe file from the NetWeaver Presentation DVD.
- 2. Follow the installation steps as described in chapter 3 and complete installation.

7 Removing the Service

To remove the SAP BW Precalculation Service, perform the following steps:

- 1. Log on to your host as a user with administration rights.
- Start the SapBiPcsSetup.exe program from the DVD or go to the control panel →
 Add/Remove programs → SAP BW Precalculation Service.
 The welcome screen of the SAP GUI Setup wizard appears.
- 3. Select option Uninstall.
- 4. Confirm with Finish.

8 Installation Check

- Any error/info messages about the SAP BW Precalculation Service are displayed in the management console of the operating system (Start → Settings → Control Panel → Administrative Tools → Computer Management) under System Tools → Event Viewer.
- 2. You can also select the server in the administration of the precalculation server (transaction SPRO: SAP Reference IMG → SAP NetWeaver → Business Intelligence→ Settings for Reporting and Analysis → Settings for Information Broadcasting → Administrate Precalculation Server). Use Information on the Server to display the current instances and the status of the server (online, offline). You can also display or delete the front-end log. The front-end log is a log file in which errors that have occurred are displayed.

You can also check BExPrecalcLog.txt file. The file is 'normally' located at C:\Users\<Pre>Precalculation Service - user>\AppData\Local\Temp\BW\Analyzer\Traces.

- 3. On Precalculation Server please run the installation check as per note 1229206.
 - Open the file SAPBExC-Rxx.xla contained in the attachment to this note 1229206.
 - Select 1st worksheet "PC Check" and press button "Start" to check the BW Front-End installation.
 - There should be no **RED** errors. Also check the 2nd sheet 'Result PreCalc'
 - Click here to understand the result file: BEx Front-End Installation Check