

Installing BAM for SAP Processes

webMethods Optimize for SAP Installation Guide

Version 8.0

January 2010

This document applies to webMethods Optimize for SAP Version 8.0 and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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Contents

■ Overview	3
■ Requirements	3
■ Installing Optimize for SAP 8.0	4
■ Uninstalling Optimize for SAP 8.0	9

Overview

This guide explains how to install, configure, and uninstall webMethods Optimize for SAP 8.0.

 The information in this guide might have been updated since the guide was published. Go to the Software AG Documentation Web site at <http://documentation.softwareag.com> for the latest version of the guide.

Requirements

For a list of supported operating systems and JVMs for Optimize for SAP 8.0, see the *webMethods Adapter System Requirements* document at <http://documentation.softwareag.com>.

SAP Components

Optimize for SAP works with SAP system versions supported by the webMethods SAP Adapter 7.1. For more information about the SAP systems supported by the SAP Adapter, see the *webMethods Adapter System Requirements* at <http://documentation.softwareag.com>.

SAP Products

SAP GUI is needed to implement local receiver and/or correlation function modules.

Hardware Requirements

Optimize for SAP 8.0 has no hardware requirements beyond those of its host Integration Server.

Installing Optimize for SAP 8.0

The main component of Optimize for SAP is the SAP Process Monitoring Agent. You must have the Integration Server 8.0 installed on the machine that hosts the SAP Process Monitoring Agent. If you do not have Integration Server 8.0 installed, you can install it, the SAP Adapter, and the SAP Process Monitoring Agent at the same time. When you select the SAP Process Monitoring Agent, the Software AG Installer automatically selects Integration Server and the SAP Adapter.

▶ To install Optimize for SAP

- 1 Install the SAP Process Monitoring Agent (Agent).
- 2 Register the Agent's RFC listener on SAP.
- 3 Enable the Agent's RFC connection and listener on Integration Server.

The following sections describe how to perform these tasks.

Installing the SAP Process Monitoring Agent

Use the Software AG Installer to install the SAP Process Monitoring Agent. For complete instructions about using the Software AG Installer, see the *Software AG Installation Guide*.

▶ To install the SAP Process Monitoring Agent

- 1 Download the Software AG Installer from the Empower Product Support Web site at <https://empower.softwareag.com>.
- 2 If you are installing the SAP Process Monitoring Agent on an existing installation of the Integration Server, shut down the server if it is running.
- 3 Start the Software AG Installer and follow the instructions in the wizard.
- 4 In the Release list, click Software AG products 8.x.
- 5 Provide the requested user name and password.
- 6 Specify the Software AG installation directory.
- 7 In the product selection list, select **Optimize > SAP Process Monitoring Agent**.
- 8 You may choose to have the Installer create a new package containing an RFC connection and an RFC listener for the SAP Process Monitoring Agent by doing the following:

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- a Select **Create a new package containing an RFC connection and an RFC listener**.
 - b Complete the following fields:


<u>Field</u>	<u>Description</u>
Package	The package in which to create the connection.
Application server	The IP address or host name of the SAP system.
Client	The three-digit SAP client number.
System ID	The three-character ID of the SAP system.
System number	The SAP system number (00-99).


- c Click **Next**.
- 9 After installation completes, close the Installer.

Register the SAP Process Monitoring Agent's RFC Listener on SAP

For the listener to work with your SAP system, you must define an RFC destination on the SAP system. Each SAP system has a single RFC destination, usually corresponding to a single RFC listener in the webMethods SAP Adapter, that makes the Integration Server a remote destination to the SAP system. This enables the Integration Server to process function calls initiated by the SAP system.

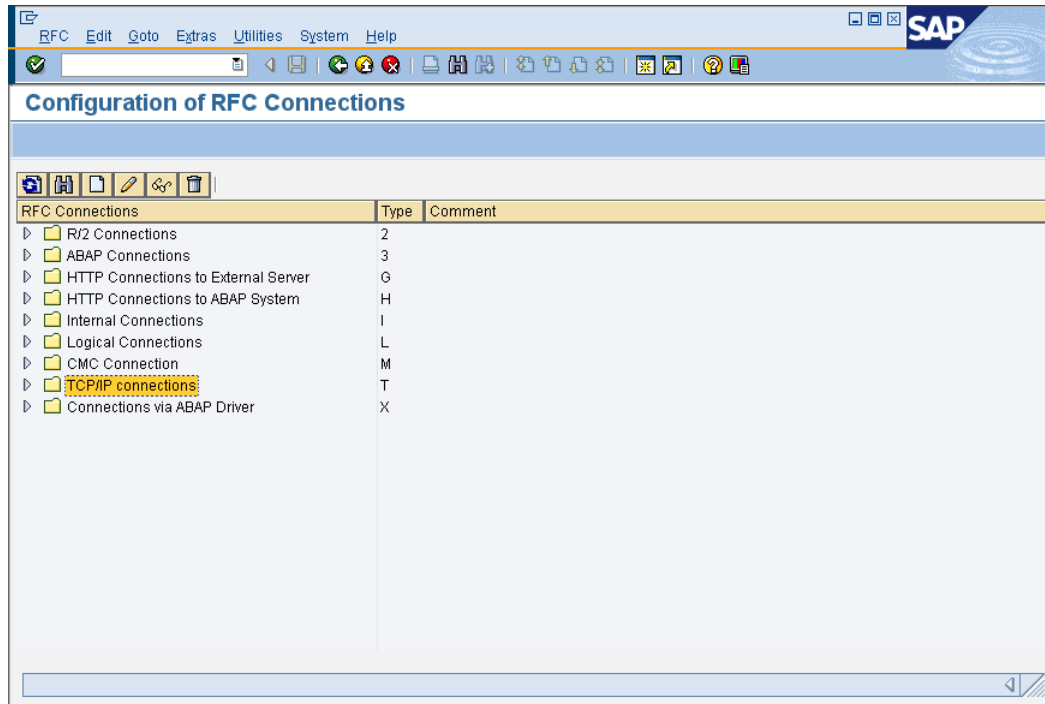
Use the following procedure to configure the SAP Process Monitoring Agent's RFC listener as a registered RFC destination on the SAP system.

 **Note:** You must have the proper authorizations on your SAP system to add an RFC destination. If you do not have this authorization, have your SAP administrator perform the following steps.


 To register the SAP Process Monitoring Agent's RFC listener as an RFC destination


- 1 Use the SAP GUI to log in to the SAP system.
- 2 Select **Administration > System Administration > Administration > Network > RFC Destinations** (TCode SM59).
- 3 Select **TCP/IP connections**.

TCP/IP connections



- 4 Click Create to open the RFC Destination page.
- 5 In the RFC Destination field, type WMBEM. This is the default RFC destination defined in the listener that was created when the Create a new package containing an RFC connection and an RFC listener option was selected during installation. This field is case sensitive.

 **Important!** If you want to use a different name for the destination, you must also edit the RFC listener in the webMethods SAP Adapter.
- 6 Enter T in the Connection type field (destination type TCP/IP).
- 7 Enter a description in the Description field that differentiates this connection from any other.
- 8 Click Save.
- 9 Select Registered Server Program as the Activation Type.
- 10 In the Program ID field, type the name of your RFC destination from [step 5](#). Enter it exactly as you did in [step 5](#). This field is also case sensitive.
- 11 Click Save to save your changes.
- 12 In the Gateway host field, type the address of the SAP system application server.
- 13 In the Gateway service field, type `sapgw nn` (where nn is the SAP system number).

 **Note:** This guarantees that you can access the RFC Server from all SAP application servers.

14 Click Save.

The completed page resembles the following:

RFC Destination

The screenshot shows the SAP configuration interface for an RFC Destination named 'WMBEM'. The window title is 'RFC Destination WMBEM'. The 'Connection Type' is set to 'TCP/IP Connection'. The 'Description' field contains 'webMethods Optimize for SAP default destination'. The 'Activation Type' is set to 'Registered Server Program'. The 'Registered Server Program' section shows 'Program ID' as 'WMBEM'. The 'Start Type of External Program' is set to 'Default Gateway Value'. The 'CPI-C Timeout' is set to 'Specify Timeout' with a value of '60' seconds. The 'Gateway Options' section shows 'Gateway Host' as 'sap.demo.com' and 'Gateway service' as 'sapgw00'. There is a 'Delete' button next to the Gateway Host field.

Field	Value
RFC Destination	WMBEM
Connection Type	T TCP/IP Connection
Description 1	webMethods Optimize for SAP default destination
Description 2	
Description 3	
Activation Type	Registered Server Program
Registered Server Program - Program ID	WMBEM
Start Type of External Program	Default Gateway Value
CPI-C Timeout	Specify Timeout: 60
Gateway Host	sap.demo.com
Gateway service	sapgw00

Edit and Enable the RFC Connection and Listener on Integration Server

You must edit the RFC connection that was created when the **Create a new package** containing an RFC connection and an RFC listener option was selected during installation. After you edit the connection parameters, you must enable the connection and listener.

▶ To edit and enable the RFC connection and listener


- 1 Start Integration Server Administrator if it is not already running.

See *Administering webMethods Integration Server* for information about starting Integration Server Administrator.

- 2 Edit the RFC connection parameters to reflect your configuration, as described below:
 - a In the **Adapters** menu in the Integration Server Administrator navigation area, click **SAP Adapter**.
 - b Click **Connections**.
 - c On the **Connections** screen, find the connection for the package specified when the **Create a new package containing an RFC connection and an RFC listener** option was selected during installation, and click its **Edit** icon.
 - d On the **Edit Connection** screen, change the **User name** and **Password** to reflect the SAP default user and password for this RFC adapter connection. Retype the password in the **Retype Password** field.

You may need to edit some connection parameters to reflect the needs of your system. For information about configuring adapter connections, see the *webMethods SAP Adapter User's Guide*.
 - e Click **Save Changes**.
- 3 Enable the connection. To do so, from the **Connections** screen, click **No** in the **Enabled** column for the connection you want to enable.

The Integration Server Administrator enables the adapter connection and displays

- a  and **Yes** in the **Enabled** column.
 - If you receive an error message, click the **Edit** button to view the configuration. Verify that your configuration information is correct. For more information about editing adapter connections, see the *webMethods SAP Adapter User's Guide*.
 - In case of an RFC error message, an RFC trace file named `dev_rfc.trc` will be written to the RFC trace directory. This file contains a more detailed description of the error cause. For more information about logging and monitoring, see the *webMethods SAP Adapter User's Guide*.
- 4 Click **Listeners**.

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- 5 Enable the listener as described below:
 - a On the Listeners screen, find the listener for the package specified when the **Create a new package containing an RFC connection and an RFC listener** option was selected during installation, and enable it.

To enable it, in the **State** column, select **Enabled**.
 - b Click **OK** to confirm you wish to enable the listener.

The listener's state changes to "Pending enabled".
 - c Click **Listeners** again to refresh the screen.

The listener should now show a state of "Enabled".
 - d Click **Close Window**.

Uninstalling Optimize for SAP 8.0

To uninstall Optimize for SAP, uninstall the SAP Process Monitoring Agent using the Software AG Uninstaller. For information about using the Software AG Uninstaller, see the *Software AG Installation Guide*.

- 1 Shut down the host Integration Server. You do not need to shut down any other webMethods products or applications that are running on your machine.
- 2 Start the Uninstaller, selecting the webMethods installation directory that contains the host Integration Server. In the product selection list, select **Optimize > SAP Process Monitoring Agent**.
- 3 After the Uninstaller completes, restart the host Integration Server.

