

Upgrading webMethods Products

Version 9.5 SP1

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This document applies to Product Name Version 9.5 SP1 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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About this Guide

This guide explains how to upgrade products in webMethods Product Suite 9.0, 8.2, 8.0, or 7.1 to 9.5.

Document Conventions

| Convention | Description |
|----------------|--|
| Bold | Identifies elements on a screen. |
| Narrowfont | Identifies storage locations for services on webMethods Integration Server, using the convention <i>folder.subfolder:service</i> . |
| UPPERCASE | Identifies keyboard keys. Keys you must press simultaneously are joined with a plus sign (+). |
| <i>Italic</i> | Identifies variables for which you must supply values specific to your own situation or environment. Identifies new terms the first time they occur in the text. |
| Monospace font | Identifies text you must type or messages displayed by the system. |
| { } | Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols. |
| | Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the symbol. |
| [] | Indicates one or more options. Type only the information inside the square brackets. Do not type the [] symbols. |
| ... | Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis (...). |

Documentation Installation

You can download the product documentation using the Software AG Installer. The documentation is downloaded to a central directory named `_documentation` in the main installation directory (SoftwareAG by default).

Online Information

[KEYWORDS:](#)

FILENAME: RE-WEBM_ONLINE_INFORMATION

You can find additional information about Software AG products at the locations listed below.

| If you want to... | Go to... |
|--|--|
| Access the latest version of product documentation. | Software AG Documentation website http://documentation.softwareag.com |
| Find information about product releases and tools that you can use to resolve problems. See the Knowledge Center to: <ul style="list-style-type: none">■ Read technical articles and papers.■ Download fixes and service packs (9.0 SP1 and earlier).■ Learn about critical alerts. | Empower Product Support website https://empower.softwareag.com |
| See the Products area to: <ul style="list-style-type: none">■ Download products.■ Download certified samples.■ Get information about product availability.■ Access older versions of product documentation.■ Submit feature/enhancement requests. | |

| If you want to... | Go to... |
|--|--|
| <ul style="list-style-type: none">■ Access additional articles, demos, and tutorials.■ Obtain technical information, useful resources, and online discussion forums, moderated by Software AG professionals, to help you do more with Software AG technology.■ Use the online discussion forums to exchange best practices and chat with other experts.■ Expand your knowledge about product documentation, code samples, articles, online seminars, and tutorials.■ Link to external websites that discuss open standards and many web technology topics.■ See how other customers are streamlining their operations with technology from Software AG. | <p>Software AG Developer Community for webMethods</p> <p>http://communities.softwareag.com/</p> |

1 Preparing for Upgrade

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Upgrade Overview

This guide explains how to upgrade products in webMethods product suite 9.0, 8.2, 8.0, or 7.1 to webMethods product suite 9.5 using a side-by-side procedure. The tasks in the procedure are required for all releases unless specifically noted as being required only for a certain release.

In most cases, products follow the suite numbering, and you can only upgrade a product from its latest release. For example, in webMethods product suite 8.2, if the latest release of a particular product is 8.2 SP2, you can only upgrade that product from 8.2 SP2.

Exceptions are as follows:

- 9.0 or 8.2 upgrade: In webMethods product suite 9.5, the Terracotta release is 3.7.6. If you installed Terracotta 3.7.6 as part of your webMethods product suite 9.0 or 8.2 installation, therefore, no upgrade is necessary. If your 9.0 or 8.2 installation includes a Terracotta release prior to 3.7.6, however, you must upgrade from those releases to 3.7.6.
- 8.2 upgrade: In webMethods product suite 8.2, the OneData release was 8.4. You can upgrade from that release.
- 8.0 upgrade: In webMethods product suite 8.0, the ApplinX, EntireX, and System Management Hub releases started at 8.1. You can upgrade from their latest 8.1 releases.

Upgrades Not Covered in This Guide

- If you want to install webMethods Broker 9.5 on a machine that is running a different operating system or has different hardware than the old machine, or if you want to upgrade webMethods Broker 8.2 or 9.0 to 9.5 on an IBM System z machine that is running SUSE Linux Enterprise Server or Red Hat Enterprise Linux, you will need to create new storage, and then migrate Broker Server configuration information from the old storage to the new storage using the webMethods Broker export/import utilities. For instructions, see *Administering webMethods Broker 9.5*.
- If you want to install the CentraSite 9.5 Registry Repository or Application Server Tier over the old CentraSite Registry Repository or Application Server Tier, see the CentraSite 9.5 documentation for instructions.
- 8.0 upgrade: If you want to upgrade CentraSite 8.0, you must first upgrade to 8.2 using the procedure in *Upgrading webMethods Products 8.2*. You can then upgrade to 9.5 using the side-by-side upgrade procedure in this guide or the overinstall procedure in the 9.5 CentraSite documentation.
- 8.0 upgrade: If you want to upgrade Mediator 8.0, you must first upgrade to 8.2 using the procedure in *Upgrading webMethods Products 8.2*. You can then upgrade to 9.5 using the procedure in this guide.

- 7.1 upgrade: If you want to upgrade CentraSite 7.1, you must upgrade to 8.2 using instructions from Software AG Global Consulting Services. You can then upgrade to 9.5 using the side-by-side upgrade procedure in this guide or the overinstall procedure in the CentraSite 9.5 documentation.

Important! You must upgrade CentraSite 7.1 before upgrading any other 7.1 product.

- If you want to upgrade MashZone or Process Performance Manager, see the 9.5 product documentation.
- If you want to upgrade Mobile Designer, you can use an automatic update option. For instructions, see the 9.5 Mobile Designer documentation.
- If you want to upgrade Content Service Platform, contact Software AG Global Consulting Services.
- 8.0 upgrade: If you want to upgrade System Management Hub 8.1, you must first upgrade to 8.2 using the procedure in *Upgrading webMethods Products 8.2*. You must then migrate System Management Hub users using instructions in System Management Hub 8.2 documentation. You can then upgrade to 9.5 using the procedure in this guide.
- 9.0 or 8.2 upgrade: The procedure for upgrading Terracotta explains how to upgrade a Terracotta Server Array that has a single server or a mirror group consisting of an active server and a mirror server. If you want to upgrade any other setup, see the 9.5 Terracotta documentation.

Terms Used in this Chapter

For simplicity, this guide uses these terms:

- For most products, the releases from which you can upgrade are referred to as 9.0, 8.2, 8.0, or 7.1. However, you can upgrade to 9.5 only from the latest release of each 9.0, 8.2, 8.0, or 7.1 product.
- The product release to which you can upgrade is referred to as 9.5. However, the instructions in this guide are for upgrading to the latest release of each 9.5 product.

Guides Needed to Perform Upgrades

You will always need the guides listed below to perform this procedure.

- *Using the Software AG Installer* (November 2013 release)
- *Installing webMethods Products 9.5*
- *Using the Software AG Update Manager*

Depending on the products you are upgrading, you might need the 9.5 guides and other guides listed below to perform this procedure.

- *webMethods BPM Task Development Help*
- *Using Blaze Rules with BPM and CAF*
- *Administering webMethods Broker*
- CentraSite documentation
- *webMethods Deployer User's Guide*
- *webMethods Integration Server Administrator's Guide, webMethods Service Development Help, and webMethods Integration Server Clustering Guide*
- *Administering webMethods Optimize and Configuring BAM*
- Terracotta documentation

Requirements and Recommendations

- You must upgrade products and migrate data in the order the instructions are presented in this guide.
- Software AG strongly recommends that you upgrade in a controlled test environment and test that environment for proper operation before upgrading your production environment.
- In each release, changes are made to product behavior, services, parameters, properties, and APIs. After you finish upgrading your products, you might need to modify product files or assets to accommodate the changes. For detailed information about the changes, read the product readmes for each of the releases between your old release and the 9.5 release. For example, if you are upgrading from release 8.0, read the product readmes for releases 8.2, 9.0, and 9.5. Also read the product release notes for those releases to understand new functionality. Readmes and release notes are available on the Software AG Documentation website.
- If you install the 9.5 release on a different machine than the old release, make sure you update all host names and ports for products and connections between products as instructed in this guide and in the 9.5 product documentation.
- 7.1 upgrade: If you are upgrading CentraSite 7.1, you must do so before upgrading any other 7.1 product. You cannot upgrade CentraSite 7.1 to 9.5 directly. Instead, you must upgrade CentraSite from 7.1 to 8.2 using instructions from Software AG Global Consulting Services, and then from 8.2 to 9.5 using the side-by-side upgrade procedure in this guide or the overinstall procedure in the CentraSite 9.5 documentation.

Troubleshooting

If you encounter errors during the upgrade, try the troubleshooting methods below.

- Look in log files.

| Type of Log | Location |
|---------------------------------|--|
| Installation and uninstallation | <i>9.5_installation_directory</i> \install\logs directory |
| Product | In a logs directory in the product file structure, or in the <i>9.5_installation_directory</i> \profiles\product\logs directory. |
| Data migration | <i>9.5_installation_directory</i> \install\logs directory and product directories indicated by the upgrade procedures |
| Database migration | <i>9.5_installation_directory</i> \common\db\logs directory. |

- In each release, changes are made to product behavior, services, parameters, properties, and APIs. If you encounter problems after upgrading, you might not have correctly modified product files or assets to accommodate the changes. For detailed information about the changes, read the product readmes for each of the releases between your old release and the 9.5 release. For example, if you are upgrading from release 8.0, read the product readmes for releases 8.2, 9.0, and 9.5. Also read the product release notes for those releases to understand new functionality. Readmes and release notes are available on the Software AG Documentation website.
- If you installed the 9.5 release on a different machine than the old release, make sure you have updated all host names and ports for products and connections between products as instructed in this guide and in the 9.5 product documentation.
- You can customize the product Java Service Wrappers; for example, you might add Java arguments or configure memory settings or logging. In the 8.2 release, you could make customizations in the wrapper.conf files. Starting in the 9.0 release, Software AG recommended making customizations in the custom_wrapper.conf file instead. If you are missing your customizations, follow the steps below to migrate customizations to 9.5.
 - 8.2 upgrade: Go to the *8.2_installation_directory/profiles/product_default/configuration* directory and open the wrapper.conf file. Go to the same directory in the 9.5 installation, open the custom_wrapper.conf file, and copy your customizations from the 8.2 file to the 9.5 file. Repeat these steps for each profile in the *8.2_installation_directory/profiles* directory.
 - 9.0 upgrade: Go to the *9.0_installation_directory/profiles/product_default/configuration* directory and open the custom_wrapper.conf file. Go to the same directory in the 9.5 installation, open the same file, and copy your customizations from the 9.0 file to the 9.5 file. Repeat these steps for each profile in the *9.0_installation_directory/profiles* directory.

Note: If you did not follow the recommendation to make customizations in the custom_wrapper.conf file, move your customizations from the wrapper_conf file.

- Go to the [Knowledge Center](#) on the Empower Product Support Website and search using keywords such as upgrade.
- Look up error messages in the *webMethods Error Message Reference*.
- Go to the [Software AG Developer Community](#) and join the upgrade discussion forum.

If you cannot resolve the problem using the methods above, contact Software AG Global Support.

2 Upgrading Products to the New Release

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Overview

This chapter explains how to upgrade products in webMethods product suite 9.0, 8.2, 8.0, or 7.1 to 9.5 using a side-by-side procedure. For some products, you must perform additional tasks to complete the upgrade or to migrate data. Subsequent chapters provide instructions for those tasks.

Important! During this upgrade procedure, you point all 9.5 products to existing database components (for example, the backup copies you create in this chapter, or your production database components). You then migrate those database components to 9.5. Be aware that after the database components are migrated to 9.5, you can no longer use them with your old environment. If you migrate your production database components to 9.5 instead of copies, therefore, your old environment will no longer be operational.

9.0 or 8.2 Upgrade: Prepare the Old CentraSite Environment

- 1 Apply the latest fix to CentraSite using the Software AG Update Manager. For instructions, see *Using the Software AG Update Manager*.
- 2 Start the CentraSite Registry Repository. Depending on the previous fix level and the content of the Registry Repository, the startup process might take some time.
- 3 Create a backup of the old CentraSite as follows:
 - 8.2 upgrade: In System Management Hub, right-click the CentraSite > Registry/Repository > Backups node and then click **Backup**. On the next screen, click **OK** to start the backup.
 - 9.0 upgrade: Run the command `inoadmin backup CentraSite`

The backup file is created with the extension `.2B0` and a timestamp in the `old_installation_directory\CentraSite\data` directory. Copy the backup to a safe location.
- 4 If you changed settings for CentraSite Control from their defaults, note those settings so you can make the same changes in the new CentraSite installation.
- 5 8.2 upgrade: The metamodel that defines the internal structure of ApplinX object types changed in release 9.0 and is not compatible with the old metamodel. CentraSite 9.5 does not support the use of object type instances that are based on the old ApplinX object types. CentraSite 9.5 does not allow ApplinX object types or instances from old product releases to be imported, and there is no procedure to migrate old instances to the new metamodel. If you want to use ApplinX object type instances from the old product release in CentraSite 9.5, you will have to manually re-create the instances after you install CentraSite 9.5. Note the definitions of all your ApplinX object type instances.

- 6 If you want to install CentraSite 9.5 on the same machine as the old CentraSite, shut down all old Application Server Tiers by stopping the CentraSite Apache 8.2 and Tomcat Server 8.2 services (8.2 upgrade) or the Tomcat Server 9.0 services (9.0 upgrade). Then shut down the old Registry Repository by stopping its service.

Note: If you install CentraSite 9.5 on the same machine as the old CentraSite, you will not be able later to run both products at the same time, even if they use different ports.

Special Considerations for Installing 9.5 Products

9.0 or 8.2 Upgrade: Special Considerations for CentraSite

If you want to install the CentraSite Application Server Tier and CentraSite Registry Repository on different machines, or in the same directory but at different times, you must install the Registry Repository first.

Special Considerations for webMethods Broker

You can do the following for webMethods Broker:

- Install webMethods Broker 9.5 on the same machine as the old webMethods Broker.
- Install webMethods Broker 9.5 on a new machine that is running the same or higher operating system (for example, Windows 2008 from Windows 7, or Linux 6.3 from Linux 5.5) and has the same hardware (for example, both have AMD, or both have Intel) as the old machine.

In both cases, you will reuse your old storage.

Special Considerations for Integration Server

If you are going to upgrade a cluster of Integration Servers, Software AG recommends the procedure below. This procedure assumes a cluster of three Integration Servers named IS1_old, IS2_old, and IS3_old, with an external load balancer to distribute client requests.

- 1 Perform all steps relating to Integration Server in this chapter. When installing, install a matching set of 9.5 Integration Servers named IS1_95, IS2_95, and IS3_95.
- 2 Shut down IS1_old.
- 3 Migrate IS1_old data to IS1_95 and customize the IS1_95 startup files using the instructions in [“Completing the Integration Server and Hosted Products Upgrade” on page 53](#).
- 4 Shut down IS2_old and IS3_old.

- 5 Start IS1_95. If IS1_old was not configured to use a Terracotta-based clustering solution, configure IS1_95 to use a Terracotta-based clustering solution. Make sure IS1_95 is processing client requests. For instructions on these tasks, see *webMethods Integration Server Clustering Guide 9.5*.

Important! Support for Coherence was discontinued in release 9.0.

- 6 Update WSDLs, connect functions to database components, and set up central user management on IS1_95 as described in [“Completing the Integration Server and Hosted Products Upgrade” on page 53](#).
- 7 Repeat steps 3, 5, and 6 for IS2_old and IS2_95, and then for IS3_old and IS3_95.

Special Considerations for My webMethods Server

If you want to upgrade a cluster of My webMethods Servers, Software AG recommends the procedure below. The procedure assumes a cluster of three My webMethods Servers named MWS1_old, MWS2_old, and MWS3_old.

- 1 Perform all relevant steps in this chapter. When installing, install a matching set of 9.5 My webMethods Servers named MWS1_95, MWS2_95, and MWS3_95.
- 2 Shut down MWS1_old, MWS2_old, and MWS3_old.
- 3 Migrate MWS1_old data to MWS1_95 using the My webMethods Server migration utility as described in [“Perform a Custom Migration” on page 46](#).
- 4 Repeat the previous step to migrate MWS2_old to MWS2_95 and MWS3_old to MWS3_95.

9.0 or 8.2 Upgrade: Special Considerations for OneData

The order of tasks in this chapter applies to all products except OneData. If you are upgrading OneData, you must perform all tasks in this chapter that relate to OneData, including database migration, before you install OneData 9.5.

Install the 9.5 Products

If you are installing on the same machine as your old release, you do not have to shut down most webMethods products, because the installer allows you to reassign webMethods product ports even if the products are running.

Follow the instructions in *Using the Software AG Installer* and *Installing webMethods Products 9.5* to install your new webMethods products, with the additional guidelines below.

- 1 For installation directory, specify a new Software AG installation directory.
- 2 On the product tree, select the 9.5 products to install. Also select Database Configuration.

Note: In webMethods product suite 8.2, 8.0, and 7.1, the Blaze design tool was Blaze Advisor. In 9.0, it was a Blaze plug-in to Designer. In 9.5, for compatibility reasons, the Blaze plug-ins are delivered in a self-contained workbench that is based on Eclipse 3.6 and is separate from Designer 9.5, which is based on Eclipse 4.3.

- 3 For the product panels, follow the instructions in *Installing webMethods Products 9.5*, with the additional guidelines below.

| Product | Guidelines |
|-----------------------|--|
| ActiveTransfer Server | Point the database connection at the ActiveTransfer database component you want to use with ActiveTransfer Server 9.5. |
| webMethods Broker | Choose to <i>not</i> create a Broker Server configuration. |
| Integration Server | Point the database connection at the ISInternal database component you want to use with Integration Server 9.5. |
| My webMethods Server | Choose to <i>not</i> create a My webMethods Server instance. Note: You will migrate old server instances and point to the MywebMethodsServer database component to use with the 9.5 products later in this procedure. |
| OneData | Enter the values you noted earlier for port, repository ID, and repository name, and database component connection. Make sure the connections for OneDataMetadata and OneDataWorkArea point to the OneData database components you want to use with OneData 9.5. Note: Reusing port values means that Web service clients of the old OneData do not have to change URLs to access OneData 9.5. |
| Trading Networks | Point the database connection at the TradingNetworks database component you want to use with Trading Networks 9.5. |
| Universal Messaging | Enter the name of a realm server in the old Universal Messaging installation and bind to that realm server's IP address and port. For the data directory, do not point to the old data directory; instead, specify a new location. You will copy the old data directory to the new installation later in this procedure. |

Prepare the Old Environment for Upgrade

Prepare Databases

Some products, like Monitor, Trading Networks, and Optimize, offer features to archive or purge data from product database components. You can reduce the amount of time needed to back up and migrate the product database components by archiving or purging them first.

Apply Fixes

Apply the fixes below to the indicated products using the Software AG Update Manager. For instructions, see *Using the Software AG Update Manager*.

| Product | Apply these fixes... |
|-------------------------------|--|
| 7.1 upgrade: Monitor | Monitor_7-1-2_Fix8 and Monitor_7-1-2_MWS_Fix7 (or the latest fixes that replace these fixes) to My webMethods Server 7.1.3 |
| 7.1 upgrade: Trading Networks | TN_MWS_7-1-2_Fix1 (or the latest fix that replaces that fix) to My webMethods Server 7.1.3 |
| Optimize | Latest |
| Infrastructure Data Collector | Latest |

Prepare Designer

8.2 or 8.0 Upgrade: Export Integration Server Definitions

- 1 In the old Designer, go to **Window > Preferences**. On the Preferences dialog box, in the left navigation bar, go to **Software AG > Integration Servers**.
- 2 Click **Export** and identify the directory to which to export. You can export to any directory. For example, you might export the definitions to the directory that contains the exported process models.
- 3 In the **File name** field, type the file name for the preferences. Designer will add the extension **.properties** to the file name.

9.0 Upgrade: Export CloudStreams Server Definitions and Projects

- 1 In the old Designer, go to the CloudStreams Development perspective.
- 2 To export CloudStreams Server definitions, go to **Window > Preferences**. On the Preferences dialog box, in the left navigation bar, go to **Software AG > CloudStreams Servers**. Click **Export** and complete the dialog box. Designer will save the file with the extension `.properties`.
- 3 In the CloudStreams Governance list, right-click CloudStreams Governance projects to **export**, click **Export**, and complete the dialog box.

7.1 Upgrade: Export Logical Server Definitions

Follow the instructions above, but on the Preferences dialog box, in the left navigation bar, go to **webMethods > Process Development > Logical Servers**.

9.0 or 8.2 Upgrade: Export Event Bus Console Configurations

- 1 In the old Designer, open the **File > Export** wizard.
- 2 In the Select panel, go to **Run/Debug > Launch Configurations** and click **Next**.
- 3 Select the Event Bus Console configurations from the tree.
- 4 In the **Location** field, specify the directory to which to export. You can export to any directory. Designer will export the configurations and add the extension `.launch` to each file name.

Export Preferences

If you want to migrate your preferences to Designer 9.5, you export them from the old Designer and then import them into Designer 9.5. To export the preferences, do the following:

- 1 In the old Designer, open the **File > Export** wizard.
- 2 In the Select panel, go to **General > Preferences** and click **Next**.
- 3 In the **To preference file** field, specify the name of the file to which to export your preferences. Designer will add the extension `.epf` to the file name.

Prepare Integration Server

- 1 If Broker Monitor 9.5 is running, shut it down.
- 2 Start the old Broker Monitor, then the old Broker Server, and then the old Integration Server.
- 3 Suspend document retrieval for all triggers and make sure all guaranteed Broker messages have finished processing, as follows:

- a Open Integration Server Administrator and point to the old Integration Server.
 - b Go to **Packages > Management**. Click **View Unlock Elements**, select all elements of triggers, and then click **Unlock Elements**.
 - c Go to the **Settings > Messaging > Broker/Local Trigger Management** page. In the **Individual Trigger Controls** area, suspend document retrieval for all triggers. Refresh the page until the **Persisted Queue Counts** field shows 0 for every trigger.
- 4 Make sure all outbound Broker messages in the client side queue have been sent, as follows:
- a Make sure Integration Server is connected to the Broker.
 - b Go to the **Settings > Resources > Store Settings** page. In the **Outbound Document Store** area, make sure the **Current Documents in Outbound Store** field shows 0.
- 5 Make sure all outbound JMS messages in the client side queue have been sent, as follows:
- a Make sure Integration Server is connected to the JMS providers.
 - b Go to the **Settings > Messaging > JMS Settings** page. In the **JMS Connection Alias Definitions** area, make sure the **CSQ Count** field shows 0 for every JMS connection alias.
- 6 If you are going to upgrade business processes, and you have business process models that use volatile transition documents and process instances of those models are in a Started state, allow the Started processes instances to complete or suspend them before upgrading.

Important! If you do not allow Started process instances to complete or suspend before upgrading, you could lose data.

Note: Started process instances of models that use guaranteed transition documents do not have to complete or be suspended before you upgrade.

9.0 or 8.2 Upgrade: Prepare OneData

- 1 In the old OneData, go to the **Home > Administer > Job Center** page. On the **Filter** page, for each job type, filter by **Active** or **Pending Active**. If a job has one of these statuses, terminate the job or wait for it to complete.
- 2 Go to the **Home > Administer > System > Metadata Repository Configuration** page. Note the values for **Repository ID**, **Repository Name**, **Administrator E-mail**, **SMTP Gateway**, **Repository Description**, **Repository Owner**, **Contact Person**, and **Disable Scheduler on This Node**.
- 3 In the file system, go to the `old_installation_directory\profiles\ODE\configuration\tomcat\conf` directory and open the `context.xml` file. Note the connection prefix located at the beginning of the

schema user name (for example, in the metadata schema user name dev2_md, the connection prefix is dev2). Also note the database connection parameters for the metadata, work area, and release area database schemas.

- 4 Note the port numbers, as follows:
 - a 8.4 upgrade: Go to the `old_installation_directory\profiles\ODE\configuration\tomcat\conf` directory and open the `server.xml` file. Note the HTTP and HTTPS port numbers in the port attribute of the `Default CTP HTTP Connector` and `Default CTP HTTPS Connector` files, respectively.
 - b 9.0 upgrade: Go to the `old_installation_directory\profiles\ODE\configuration\com.softwareag.platform.config.propsloader` director. Open the `com.softwareag.catalina.connector.http.pid-port.properties` and `com.softwareag.catalina.connector.https.pid-port.properties` files and note the port numbers.

Prepare Optimize

- 1 If you want to reuse your Central Configuration System (CCS) Environment definition, export the environment to an XML file. In My webMethods, go to the **Administration > System-Wide > Environments > Define Environments** page. Select the check box next to the environment, click **Export**, and provide a file name and location for the exported environment.
- 2 7.1 upgrade: If you are using Optimize for Infrastructure, do the following:
 - a You will have to rediscover components and reestablish monitoring after upgrading. In My webMethods, go to the **Applications > Administration > Analytics > {Infrastructure|Monitored} Components > Monitored Components** page and note the components and KPIs you are monitoring.
 - b Data from previously monitored SNMP data cannot be migrated. In Infrastructure Data Collector, delete SNMP component assets. For instructions, see the 7.1 Optimize administration guide.
- 3 8.0 or 7.1 upgrade: In Optimize 8.0 and 7.1, you could save changes to event maps and dimensions without deploying the changes. In Optimize 9.5, however, changes you save are automatically deployed. You must therefore either deploy or revert undeployed changes to 8.0 event maps or dimensions before upgrading. Otherwise, you might encounter errors when you try to access the Optimize user interface.
 - a In My webMethods, go to the **Administration > Analytics > KPIs > Business Data** page and locate event maps for which the `Deployed` column value is set to `No`. Select each map and click either **Revert** or **Save and Deploy**.
 - b Go to the **Administration > Analytics > KPIs > Dimensions** page and locate dimensions for which the `Deployed` column value is set to `No`. Select each map and click either **Revert** or **Save and Deploy**.

- 4 8.2 upgrade: Integration Servers that were clustered using Oracle Coherence were reconfigured during the upgrade procedure in this chapter to use a Terracotta-based clustering solution instead. If you are monitoring Integration Servers that were clustered using Coherence, stop monitoring them now; you will restart monitoring them as part of the Terracotta-based clustering solution after the upgrade.

Note: KPI data from the monitored, clustered Integration Server will not be available in Optimize 9.5.

- a In My webMethods, go to the **Applications > Administration > Analytics > Infrastructure Components > Monitored Components** page.
 - b In the Monitored Components list, click **IS Cluster**. Delete all Integration Server clusters listed in the **Selected Components** box. Note the KPIs listed in the **Selected KPIs** box and then delete them as well. Click **Save**.
 - c In the Monitored Components list, click **IS Cluster Server** and repeat the deletions and notes in the previous step.
- 5 If you want to cluster Analytic Engines in the new installation, you will need a Terracotta Server Array. For planning information, see *Getting Started with the webMethods Product Suite and Terracotta 9.5*, *Configuring BAM 9.5*, and the 9.5 Terracotta documentation.

Shut Down the Old Products

Shut down your old webMethods products. For a UNIX system, use the instructions in the product documentation for your old release. For a Windows system:

- Shut down products that are running as services from the Windows Services window. Services are listed as follows:

| Release | Services Listed As |
|------------|------------------------------------|
| 8.2 or 8.0 | Software AG <i>product release</i> |
| 7.1 | webMethods <i>product release</i> |

- Shut down products that are running as applications from the Windows Start menu. Applications are listed as follows:

| Release | Applications Listed As |
|------------|---|
| 8.2 or 8.0 | Software AG > Stop Servers > <i>product</i> |
| 7.1 | webMethods7 > Stop Servers > <i>product</i> |

For EntireX, also shut down all Brokers, RPC Servers, and customer applications that use EntireX libraries. See the instructions in the product documentation for your old release.

Migrate Database Components

Back Up the RDBMSs

Back up the RDBMSs that contain webMethods database components using the vendor instructions for your RDBMS.

If you are upgrading My webMethods Server, back up the My webMethods Server installation directory at the same time you back up the MywebMethodsServer database component. If you have problems, you will need data from the backup to restore the database.

Upgrade the RDBMSs

Check your RDBMSs against *webMethods System Requirements 9.5*. If the RDBMS version you are using is not supported by the webMethods 9.5 products, you must upgrade to a supported RDBMS version before continuing with the instructions in this chapter.

Shut Down Products that Connect to Database Components

If you have not already done so, shut down all Integration Server, My webMethods Server, OneData, and Optimize instances that connect to database components.

9.0, 8.2, or 8.0 Upgrade: Before You Migrate Trading Networks Database Components

- 1 Use your data editor to delete all data from the ARCHIVE_WORKTABLE table in the TradingNetworksArchive database component.
- 2 If you created custom indexes for your Trading Networks database components, check whether those custom indexes conflict with indexes that will be created when you run the Trading Networks migration scripts in the next step. If so, drop the custom indexes. The migration scripts are located in the *9.5_installation_directory\common\db\scripts\RDBMS\tradingnetworks\migrate* directory, under these directories:
 - 9.0 upgrade: Under the \40_to_45 directory.
 - 8.2 upgrade: Under the \39_40 and 40_to_45 directories.
 - 8.0 upgrade: Under the \33_to_35, 39_to_40, and 40_to_45 directories.

7.1 Upgrade: Before You Migrate Trading Networks Database Components

- 1 Use your data editor to delete all data from the ARCHIVE_WORKTABLE table in the TradingNetworksArchive database component.
- 2 If TNS_7-1-2_DB_Fix7 or higher or TNS_7.1.2_Fix3 or higher was applied to Trading Networks 7.1.2, do the following:
 - a Go to the *9.5_installation_directory*\common\db\scripts\{oracle|mssql|db2}\tradingnetworks\migrate\30_to_31 directory. Open the file shown below, comment out the indicated lines, and then save the file.

| RDBMS | Lines to Comment Out |
|------------|--|
| Oracle | <p>Open the ora_tns_m_30_to_31.sql file and comment out these lines:</p> <pre> CREATE INDEX idx_BizDoc_Nativeid ON BizDoc (NativeID)TABLESPACE WEBMINDX ; CREATE INDEX idx_BizDoc_Groupid ON BizDoc (GroupID)TABLESPACE WEBMINDX ; ALTER TABLE BizDoc MODIFY NativeID VARCHAR2(256); ALTER TABLE BizDocContent MODIFY MimeType VARCHAR2(256); </pre> |
| SQL Server | <p>Open the mss_tns_m_30_to_31.sql file and comment out these lines:</p> <pre> CREATE INDEX idx_BizDoc_Nativeid ON BizDoc (NativeID) CREATE INDEX idx_BizDoc_Groupid ON BizDoc (GroupID) ALTER TABLE BizDoc ALTER COLUMN NativeID VARCHAR(256) ALTER TABLE BizDocContent ALTER COLUMN MimeType VARCHAR(256) </pre> |

| RDBMS | Lines to Comment Out |
|-------|---|
| DB2 | <p>Open the <code>db2_tns_m_30_to_31.sql</code> file and comment out these lines:</p> <pre>CREATE INDEX idx_BD_NativeId ON BizDoc (NativeID); CREATE INDEX idx_BD_GroupId ON BizDoc (GroupID); ALTER TABLE BizDoc ALTER COLUMN NativeID SET DATA TYPE VARCHAR(256); ALTER TABLE BizDocContent ALTER COLUMN MimeType SET DATA TYPE VARCHAR(256);</pre> |

- b Go to the `9.5_installation_directory\common\db\scripts\{oracle|mssql|db2}\tradingnetworks\rksarchive\migrate\30_to_31` directory. Open the file shown below, comment out the indicated lines, and then save the file.

| RDBMS | Lines to Comment Out |
|------------|---|
| Oracle | <p>Open the <code>ora_tna_m_30_to_31.sql</code> file and comment out these lines:</p> <pre>ALTER TABLE ARCHIVE_BizDoc MODIFY NativeID VARCHAR(256); ALTER TABLE ARCHIVE_BizDocContent MODIFY MimeType VARCHAR(256);</pre> |
| SQL Server | <p>Open the <code>mss_tna_m_30_to_31.sql</code> file and comment out these lines:</p> <pre>ALTER TABLE ARCHIVE_BizDoc ALTER COLUMN NativeID VARCHAR(256) ALTER TABLE ARCHIVE_BizDocContent ALTER COLUMN MimeType VARCHAR(256)</pre> |
| DB2 | <p>Open the <code>db2_tna_m_30_to_31.sql</code> file and comment out these lines:</p> <pre>ALTER TABLE ARCHIVE_BizDoc ALTER COLUMN NativeID SET DATA TYPE VARCHAR(256); ALTER TABLE ARCHIVE_BizDocContent ALTER COLUMN MimeType SET DATA TYPE VARCHAR(256);</pre> |

- 3 If `TNS_7-1-2_DB_Fix8` or higher was not applied to Trading Networks 7.1.2, go to the `9.5_installation_directory\common\db\scripts\{oracle|mssql|db2}\tradingnetworks\migrate\30_to_31` directory. Open the file shown below, comment out the indicated line, and then save the file.

| RDBMS | Lines to Comment Out |
|--------|---|
| Oracle | <p>Open the <code>ora_tns_m_30_to_31.sql</code> file and comment out this line:</p> <pre>DROP INDEX idx_DeliJob_QueueName ;</pre> |

| RDBMS | Lines to Comment Out |
|------------|--|
| SQL Server | Open the <code>mss_tns_m_30_to_31.sql</code> file and comment out this line: <code>DROP INDEX DeliveryJob.idx_DeliJob_QueueName;</code> |
| DB2 | Open the <code>db2_tns_m_30_to_31.sql</code> file and comment out this line: <code>DROP INDEX idx_DJob_QueueName ;</code> |

- 4 If you created custom indexes for your Trading Networks 7.1.2 database components, check whether those custom indexes conflict with indexes that will be created when you run the Trading Networks migration scripts in the next step. If so, drop the custom indexes. The migration scripts are located in the `9.5_installation_directory\common\db\scripts\RDBMS\tradingnetworks\migrate\28_to_30, 30_to_31, 33_to_35, 39_to_40, and 40_to_45` directories.

Special Considerations for Migrating Other Database Components

If you are using business processes, you have stored information about in-progress, completed, or failed business process instances. This stored information is called business process run-time data. If you do not want to finish running in-progress process instances or resubmit completed or failed process instances from your old installation in webMethods product suite 9.5, do not migrate your business process run-time data (see table below).

If you are using Optimize with a DB2 RDBMS, there are special considerations for the URL you specify on the database component migration command. You must do the following:

- Specify the schema name in the URL using all capital letters.
- Specify the options `CreateDefaultPackage=true, ReplacePackage=true, and DynamicSections=3000`. These settings will affect all database components in the same schema or database.

Database Component Names

Database component names you might use in the migration command are as follows:

| If you are migrating this data... | Specify these <i>database_component</i> values |
|-----------------------------------|--|
| ActiveTransfer Server | ActiveTransfer |
| Business process run-time | ProcessAudit, ProcessEngine, Archive, Staging, Reporting |
| Business rules | BusinessRules |
| Integration Server | ISInternal, ISCoreAudit, CrossReference, DocumentHistory, DistributedLocking |

| If you are migrating this data... | Specify these <i>database_component</i> values |
|-----------------------------------|---|
| My webMethods Server | MywebMethodsServer |
| OneData | OneDataMetadata, OneDataWorkArea |
| Optimize | Analysis, ProcessTracker, ProcessAudit, DataPurge |
| Trading Networks | TradingNetworks, TradingNetworksArchive |

Migrate Database Components

On the machine on which you installed Database Configuration 9.5, go to the *9.5_installation_directory*\common\db\bin directory, open a command window, and migrate database components by running the commands below. After you run each command, check the log file *dcc_yyyymmddhhmmss* in the *9.5_installation_directory*\common\db\logs directory.

- If you want to migrate all webMethods database components, run this command:

```
dbConfigurator.{bat|sh} -a migrate -d {oracle|sqlserver|db2|uw} -c all
-v latest -l db_server_URL -u existing_db_user -p password
```

Note: Since you most likely do not have all webMethods database components (because you do not have all webMethods products), you will see messages in the log file that say migration failed for the database components you do not have. You can ignore these messages.

- If you do not want to migrate all webMethods database components, run this command for each database component you need to migrate:

```
dbConfigurator.{bat|sh} -a migrate -d {oracle|sqlserver|db2|uw}
-c database_component_name -v latest -l db_server_URL -u existing_db_user
-p password
```

Complete the Side-by-Side Upgrade

To complete the side-by-side upgrade procedure, perform the steps in the product-specific chapters that follow. For many products, the steps you perform in these chapters include running a migration utility that automatically migrates data from the old installation to the new installation. The section below describes the general behavior of the migration utilities. Any exceptions to the general behavior are noted in the product-specific chapters.

After completing all chapters, configure your products as described in the 9.5 product documentation.

Important! If you installed your 9.5 products on a different machine than your old products, make sure to update host names in your 9.5 products, in the connections between your products, and in your database tables, as indicated in this guide and in the product documentation.

Migration Utilities

Some migration utilities for some products run without prompting you for any information. Migration utilities for other products ask you to select the data to migrate, and offer these options:

- You can run a custom migration, in which you select the data to migrate. The utility gathers your settings through a series of prompts, then migrates the selected data. You can export your settings and use them in other upgrades.
- You can run a migration with imported settings. The imported settings can come from settings you exported from a custom migration, or from the default migration provided with the product installation. The settings for default migrations are described in the product-specific chapters.

If a migration utility fails to migrate a piece of data, the utility asks whether to continue with the next piece of data or abort the migration. If you choose to abort, the utility exits. The utility does not revert the 9.5 product installation. You can address the issue and rerun the utility.

You can use a Zip file of the old product installation as the source of the data to migrate. You might use a Zip file when your old and new product installations are on different machines.

Migration utilities write detailed migration information to the migrationLog.txt file in the *9.5_installation_directory*\install\logs directory. By default, utilities write INFO, ERROR, and FATAL messages to the log. If you want to increase the logging level for a product's migration to DEBUG, go to the product directory that contains the log4j.properties file (for example, the *9.5_installation_directory*\product\bin\migrate or \migrate\bin directory), open the file in a text editor, set the `log4j.logger.Migration` property to `DEBUG`, `MigrationFile`, and save and close the file.

3 Complete webMethods Product Suite Infrastructure Upgrade

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Overview

webMethods product suite infrastructure components are automatically installed with many webMethods products. If you cannot find files that are referenced in the sections in this chapter, your products did not require those infrastructure components, and those steps are not necessary for your upgrade.

9.0 or 8.2 Upgrade: Migrate Port Configurations

8.2 Upgrade: Migrate Port Configurations

In 8.2, Tomcat Server connectors were specified in the `server.xml` file, as `Connector` elements. Starting in 9.0, Tomcat Server was renamed Runtime in webMethods, and each connector was specified in its own properties file. Follow the steps below to migrate 8.2 connectors to 9.5.

- 1 Migrate HTTP port configurations as follows:
 - a Go to the `8.2_installation_directory/profiles/CTP/configuration/tomcat/conf` directory and open the `server.xml` file.
 - b Go to the `9.5_installation_directory/profiles/CTP/configuration/com.softwareag.platform.config.propsloader` directory and open the `com.softwareag.catalina.connector.http.pid-port.properties` file. Compare the property values in the file to the corresponding attribute values in the `Default CTP HTTP Connector` element in the `server.xml` file. If any are different, copy the 8.2 attribute value over the 9.5 property value.
 - c Check for additional `Connector` elements in the `server.xml` file for HTTP ports. For each such element, copy the `com.softwareag.catalina.connector.http.pid-port.properties` file in the 9.5 installation, modify the file name and values in the copy to match the 8.2 `Connector` element, and change the `alias` property in each file to be unique. For example, the alias for the default HTTP connector is `defaultHttp (alias=defaultHttp)`. You could use this alias as a base, and add a unique suffix to create the alias for each additional connector (`alias=defaultHttp2`, `alias=defaultHttp3`, and so on).
- 2 Repeat the previous steps to migrate HTTPS port configurations, but use the `com.softwareag.catalina.connector.https.pid-port.properties` file, and compare the properties to the attributes in the `Default CTP HTTPS Connector` element.
- 3 Migrate JMS port configurations as follows:

- a Go to the `8.2_installation_directory/profiles/CTP/configuration` directory and open the `config.ini` file.
- b Go to the `9.5_installation_directory/profiles/CTP/configuration/com.softwareag.platform.config.propsloader` directory and open the `com.softwareag.jmx.connector.pid-port.properties` file. Compare the port property in the 9.5 file to the `com.softwareag.platform.startup.jmx.rmi.agent.port` property in the 8.2 file. If they are different, copy the 8.2 value over the 9.5 value.

9.0 Upgrade: Migrate Port Configurations

- 1 Migrate HTTP port configurations as follows:
 - a Go to the `9.0_installation_directory/profiles/CTP/configuration/com.softwareag.platform.config.propsloader` directory. If you see a single `com.softwareag.catalina.connector.http.pid-port.properties` file, open that file. If you see multiple files with that name, open the file that specifies the port you want to designate as the default port in 9.5.
 - b Go to the same directory in the 9.5 installation and open the `com.softwareag.catalina.connector.http.pid-port.properties` file.
 - c Compare the property values in the two files. If any are different, copy the 9.0 value over the 9.5 value.
 - d Check for additional `com.softwareag.catalina.connector.http.pid-port.properties` files for HTTP ports in the above-mentioned 9.0 directory. Copy all such files to the 9.5 directory and then add these elements to each copied file:
 - `alias=unique_identifier`. This Software AG-specific attribute uniquely identifies each connector when you view its configuration in the Platform Manager. The alias for the default HTTP connector you set up above is `defaultHttp`. You could use that alias as a base, and add a unique suffix to create the alias for each additional connector (`alias=defaultHttp2`, `alias=defaultHttp3`, and so on).
 - `enabled=true`. This Software AG-specific attribute and value are required for this connector to be started.
- 2 Repeat the previous steps to migrate HTTPS port configurations, but use the `com.softwareag.catalina.connector.https.pid-port.properties` file, and add `alias=defaultHttps` to the default HTTPS connector.
- 3 Migrate JMS port configurations as follows:
 - a Go to the `9.0_installation_directory/profiles/CTP/configuration/com.softwareag.platform.config.propsloader` directory and open the `com.softwareag.jmx.connector.pid-port.properties` file.
 - b Go to the same directory in the 9.5 installation and open the same file.

- c Compare the property values in the two files. If any are different, copy the 9.0 value over the 9.5 value.

9.0 or 8.2 Upgrade: Migrate the Journal Logger Configuration

- 1 Go to the *old_installation_directory*/profiles/CTP/configuration/logging directory and open the log_config.xml file.
- 2 Go to the same directory in the 9.5 installation and open the same file.
- 3 Compare the property values in the two files. If any are different, copy the old value over the 9.5 value.

9.0 or 8.2 Upgrade: Migrate the Password Manager Configuration

- 1 Go to the *old_installation_directory*/profiles/CTP/configuration/security/passman directory and open the scPassMan.config.xml file.
- 2 Go to the same directory in the 9.5 installation and open the same file.
- 3 Compare the property values in the two files. If any are different, copy the old value over the 9.5 value.
- 4 Go to the *old_installation_directory*/profiles/CTP/configuration/security/passman directory and copy the defaultPassStore.dat and mpw.dat files to the same directory in the 9.5 installation.

9.0 or 8.2 Upgrade: Migrate Java Service Wrapper Customizations

You can customize the product Java Service Wrappers; for example, you might add Java arguments or configure memory settings or logging.

8.2 Upgrade: Migrate Java Service Wrapper Customizations

In the 8.2 release, you could make customizations to product Java Service Wrappers in the wrapper.conf file. Starting in the 9.0 release, **Software AG** recommended making customizations in the custom_wrapper.conf file instead. Follow the steps below to migrate 8.2 customizations for infrastructure components to 9.5.

- 1 Go to the *8.2_installation_directory*/profiles/CTP directory and open the wrapper.conf file.
- 2 Go to the same directory in the 9.5 installation and open the custom_wrapper.conf file.

- 3 Copy your customizations from the 8.2 wrapper.conf file to the 9.5 custom_wrapper.conf file.

9.0 Upgrade: Migrate Java Service Wrapper Customizations

Starting in the 9.0 release, Software AG recommended making customizations to product Java Service Wrappers in the custom_wrapper.conf file rather than the wrapper.conf file. Follow the steps below to migrate 9.0 customizations for infrastructure components to 9.5.

- 1 Go to the *9.0_installation_directory*/profiles/CTP directory and open the custom_wrapper.conf file.
- 2 Go to the same directory in the 9.5 installation and open the same file.
- 3 Copy your customizations from the 9.0 file to the 9.5 file.

9.0 or 8.2 Upgrade: Migrate the JAAS Configuration

8.2 Upgrade: Migrate the JAAS Configuration

The structure for JAAS configuration data changed starting in release 9.0. Go to the *8.2_installation_directory*/profiles/CTP/configuration directory and open the jaas.config file. If you made changes to the file, make the same changes to the new JAAS structure in the 9.5 installation.

9.0 Upgrade: Migrate the JAAS Configuration

Go to the *9.0_installation_directory*/profiles/CTP/configuration directory and copy the jaas.config file to the same directory in the 9.5 installation.

9.0 or 8.2 Upgrade: Migrate the Web Services Stack Configuration

Go to the *old_installation_directory*/profiles/CTP/workspace/wsstack/repository/conf directory and copy the axis2.xml file to the same directory in the 9.5 installation.

8.2 upgrade: In the copied 9.5 file, remove or comment out the transportReceiver element whose name attribute is http and the transportReceiver element whose name attribute is https.

Migrate the User Repository

- 1 Go to the *old_installation_directory*/common/conf directory and open the users.txt file.
- 2 If you added users to the old users.txt file, use the Internal User Repository command line tool to create the same users in the 9.5 users.txt file. For instructions, see the Security Infrastructure documentation.
- 3 8.2 upgrade: If the password of the default user Administrator was changed from the default password manage in the 8.2 release, use the Internal User Repository command line tool to make the same change in the 9.5 users.txt file.

4 Completing the webMethods Broker Upgrade

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Backward Compatibility

| These Broker Servers... | Are compatible with these Broker clients... |
|--|---|
| Broker Server 9.5 | <ul style="list-style-type: none"> ■ 9.0, 8.2, 8.0, and 7.1.2 command-line utilities ■ 9.0, 8.2, 8.0, and 7.1.2 Broker Client APIs for C, C#, Java, and JMS ■ 9.0, 8.2, 8.0, and 7.1.2 clients for JMS |
| Broker Server 9.0, 8.2, 8.0, and 7.1.2 | <ul style="list-style-type: none"> ■ 9.5 command-line utilities ■ 9.5 Broker Client APIs for C, C#, and Java ■ 9.5 Broker user interface in My webMethods |

8.2 Upgrade: Migrate Broker Assets from XML Format to ADL Format

In release 8.2 SP1 and SP2, webMethods Broker and Deployer stored Broker assets in XML format. Starting in release 9.0, webMethods Broker and Deployer began storing Broker assets in ADL format. You must use webMethods Broker 8.2 SP3 and Deployer 8.2 to migrate the assets from XML format to ADL format. For instructions on using Deployer in the steps below, see the *webMethods Deployer User's Guide* for the 8.2 and 9.5 releases.

- 1 If the assets are available only in the source .xml files and do not exist in webMethods Broker 8.2 SP3, use Deployer 8.2 to deploy the assets from the source .xml files to webMethods Broker 8.2 SP3.
- 2 Update the My webMethods Messaging user interface to 8.2 SP3. Go to the `old_installation_directory\MWS\bin` directory and run this command:


```
mws -s server_instance update -Dcomponents.override=true
```
- 3 Export the assets to ADL format as follows:
 - a In My webMethods Messaging user interface 8.2 SP3, go to the **Administration > Messaging > Broker Servers > Servers** page and click the Broker Server from which to export assets.
 - b Click the **Brokers** tab. In the Brokers list, click the Broker from which to export assets. If the Broker does not appear in the list, use the search functionality to locate it.
 - c On the **Broker Details** page, click the **Export to File** tab, select the assets to export, and then click **Export to File**.
- 4 Start the Software AG Installer and install **Infrastructure > Libraries > Broker and JMS Libraries 8.2 SP3** in the installation directory that contains Deployer 8.2 and Asset Build Environment 8.2.

- 5 Use Deployer 8.2 to build the assets in ADL format for repository-based deployment. For instructions, see building assets for deployment in *Administering webMethods Broker 9.5* and *webMethods Deployer User's Guide 9.5*.
- 6 Use Deployer 9.5 to deploy the Broker assets in ADL format to webMethods Broker 9.5.
- 7 Shut down My webMethods Server 8.2 and the Integration Server 8.2 that hosts Deployer 8.2.

Create Broker Server 9.5 and Use the Old Storage

- 1 Back up the old data directory.
- 2 Go to the *old_installation_directory*\Broker\bin directory and back up the old awbrokermon.cfg file.
- 3 Stop the old Broker Server, go to the *old_installation_directory*\Broker\bin directory, and run this command:

```
server_config remove full_path_to_old_data_directory
```

When asked whether to remove the Broker Server from the Broker Monitor configuration, enter Y.
- 4 If you need to copy the data directory to a new location (for example, because you installed webMethods Broker 9.5 on a different machine than the old webMethods Broker), do the following:
 - a Copy the old data directory to the new location. If any storage files were located outside the data directory (for example, .stor and .data files), also copy those files.
 - b Go to the *9.5_installation_directory*\Broker\bin directory and run the command below. If you also copied old storage files, specify the *qs_map_file* parameter for each file.

```
server_config relocate full_path_to_new_data_directory  
[-qs_map_file full_path_to_old_file full_path_to_new_file]
```
- 5 Create a Broker Server 9.5. Go to the *9.5_installation_directory*\Broker\bin directory and run the command below. Broker Server 9.5 details are automatically added to the Broker Monitor 9.5 startup configuration. Make sure the host name and port number for Broker Server 9.5 are the same as they were for the old Broker Server.

```
server_config add full_path_to_old_data_directory -k 9.5_license_file  
-p old_release_port
```

6 Make sure Broker Server 9.5 is running as follows:

| System | Steps |
|---------|---|
| Windows | <ol style="list-style-type: none">1 Open the Windows Services window and make sure the status of the Software AG Broker Server 9.5(port) service is Started.2 Right-click the service and click Properties. Make sure the Path to Executable field points to the awbroker file for 9.5. |
| UNIX | <ol style="list-style-type: none">1 Run the command <code>ps -ef grep awbroker</code>, which prints all running Broker processes including the path to the executable. Make sure the output text shows a line like this: <code>full_path_to_9.5_installation_directory/Broker/bin/awbroker -d full_path_to_old_data_directory</code>2 Make sure the awbroker process is running and that it is running from the 9.5 awbroker file. |

8.0 or 7.1 Upgrade: Change CLASSPATH and Settings

The list below provides the webMethods Broker jar file names and locations. You will have to make appropriate changes to the CLASSPATH for stand-alone JMS clients and to settings for application servers used with a webMethods client for JMS in 9.5.

- 7.1 upgrade: `7.1_installation_directory\Broker\lib\wmbrokerclient.jar`, `wmjmsclient.jar`, `wmjmsadmin.jar`, and `wmjmsnaming.jar`
- 8.0 upgrade: `8.0_installation_directory\Broker\lib\wm-brokerclient.jar`, `wm-jmsclient.jar`, `wm-jmsadmin.jar`, and `wm-jmsnaming.jar`
- `9.5_installation_directory\common\lib\wm-brokerclient.jar`, `wm-jmsclient.jar`, `wm-jmsadmin.jar`, and `wm-jmsnaming.jar`

5 Completing the Universal Messaging Upgrade

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Complete the Universal Messaging Upgrade

- 1 When you installed Universal Messaging 9.5, you created a realm server. If your old installation had more than one realm server, use the `ninstancemanager` tool to create the other realm servers, using the same realm server names and binding to the same IP addresses and ports as the old installation. For instructions, see the Universal Messaging documentation.
- 2 Migrate the data directory for each realm server in your new installation as explained below.
 - Copy the old data directory over the new data directory.
 - If the old data directory was in a non-default location (that is, a location other than the default provided by the installer), do the following:

| If you plan to run the server in this mode... | Edit this file to point to the new (copied) data directory... |
|---|---|
| Console | New realm server's <code>nserver.conf</code> file |
| Daemon, non-console | New realm server's <code>nserverdaemon.conf</code> file |

- 3 9.0 upgrade: If you made any custom changes to an old realm server's `nserver.conf` or `nserverdaemon.conf` file, make the same changes to the same file for that realm server in the new installation.

Pre-9.0 upgrades: If you made any custom changes to an old realm server's LAX file, make the same changes to the `nserver.conf` or `nserverdaemon.conf` file for that realm server in the new installation.

6 Completing the My webMethods Server Upgrade

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- Before Migrating Data 46
- Run the My webMethods Server Migration Utility 46

Complete the My webMethods Server Upgrade

You complete the My webMethods Server upgrade by running the My webMethods Server migration utility. The migration utility migrates server instances from the old installation to the new installation.

Before Migrating Data

- 1 Make sure all old My webMethods Server cluster nodes are shut down.
- 2 If you installed My webMethods Server 9.5 on a different machine than the old My webMethods Server, do one of the following:
 - Copy the *old_installation_directory*\MWS directory and the *old_installation_directory*\install\products directory to the machine that hosts My webMethods Server 9.5. Recreate the old directory structure on the 9.5 machine. For example, if the old directory structure was C:\SoftwareAG\MWS and C:\SoftwareAG\install\products, you could create the directory structure C:\oldMWS\MWS and C:\oldMWS\install\products on the 9.5 machine.
 - Map a drive on the machine that hosts My webMethods Server 9.5 to the machine that hosts the old installation.

Run the My webMethods Server Migration Utility

For a general description of migration utility behavior, see [“Migration Utilities” on page 32](#). Exceptions:

- The My webMethods Server migration utility does not offer a default migration.
- You cannot use a Zip file of the old product installation as the source of the data to migrate.

Perform a Custom Migration

- 1 Go to the *9.5_installation_directory*\MWS\bin\migrate directory and run the command `migrate.{bat|sh}`.
- 2 The utility asks for the full path to the old My webMethods Server installation (for example, *C:\old_installation_directory*\MWS or */opt/old_installation_directory*/MWS).
- 3 The utility asks whether to import migration settings. Enter N.
- 4 The utility asks about migrating server instances, as follows:

- a The utility asks whether to migrate one of the server instances in the old My webMethods Server installation. Enter Y.
- b If the server instance name already exists in the My webMethods Server 9.5 installation directory, the utility asks whether to delete the 9.5 server instance so migration of the old server instance can proceed. Enter Y.
- c The utility asks whether to use the old (production) MywebMethodsServer database component with the migrated server instance. You can use the production database component or a copy that contains the old data. You cannot use a new database that contains no data.

| In this case... | Enter... |
|---|---|
| Use the old (production) database | Y |
| Use a different database (for example, the backup copy of the old database) | N, and then answer the next three prompts, which ask for the database URL, user name, and password. |

If the old My webMethods Server installation directory contains more than one server instances, the utility repeats this step for each instance.

- 5 The utility asks whether to export your settings from this session. If you want to perform other migrations by importing the settings from this session, enter Y. If not, enter N.
- 6 The utility asks whether to begin migration. If you enter N, the utility exits without migrating any data. If you enter Y, the utility migrates the data you selected and prints progress messages to the command window and the migration log. If migration completes successfully, the utility also does the following:
 - Deletes old configuration files that are not used by My webMethods Server 9.5, and deletes old properties that are not used by My webMethods Server 9.5 from the 9.5 configuration files.
 - If the old My webMethods Server used the embedded database, copies the database tables from the old My webMethods Server to My webMethods Server 9.5 and converts the tables to the new format.
- 7 Start My webMethods Server 9.5 by going to the *9.5_installation_directory*\MWS\bin directory and running the command `mws.{bat|sh} -s server_instance init`. The 9.5 components are deployed, and then My webMethods Server shuts down automatically. Restart My webMethods Server.
- 8 If you installed My webMethods Server 9.5 on a different machine than the old My webMethods Server, verify the host names as follows:

- a Log on to My webMethods Server as Administrator and go to the **Administration > My webMethods > Cluster Settings > Advanced Web and Cluster Configuration for MWS** page.
- b If the host name is not correct in the **Host** field for each cluster node and in the **MWS Front End URL** field for all nodes, update the host names.
- c Go to the **Cluster Status and Control** page and restart all cluster nodes.

Migrate Using Imported Settings

Imported settings come from settings you exported from a custom migration. These settings are stored in a file named `migrate.dat` in the `9.5_installation_directory\MWS\bin\migrate` directory.

- 1 If the My webMethods Server 9.5 to which to migrate is on a different machine than the `migrate.dat` file, copy the file to any directory on that machine.
- 2 Go to the `9.5_installation_directory\MWS\bin\migrate` directory and run the command `migrate.{bat|sh}`.
- 3 The utility asks for the full path to the old *My webMethods Server_directory* installation.
- 4 The utility asks whether to import migration settings. Enter `Y` and provide the full path to the `migrate.dat` file.

Migrate Using Imported Settings Silently

You can migrate using imported settings silently (that is, without any user input). If an error occurs, the utility exits.

Go to the `9.5_installation_directory\MWS\bin\migrate` directory and run the command below.

```
migrate.{bat|sh}
-srcDir full_path_to_old_My_webMethods_Server_installation_directory
-importFile full_path_to_migrate.dat -silent true
```


7 9.0 or 8.2 Upgrade: Completing the Business Events Upgrade

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Complete the Business Events Upgrade

You complete the Business Events upgrade by migrating EDA configuration files, then running the Business Events migration utility. The migration utility does the following:

- Updates the Event Server 9.5 configuration file by adding new entries and by deleting old entries that are no longer used.
- Copies the Event Type Store and restructures it to the 9.5 structure.
- Copies deployed assets from the old installation to the 9.5 installation and updates them to the 9.5 format.

Migrate EDA Configuration Files

- 1 Go to the *old_installation_directory*\common\conf directory and copy the ConfigEDAOrchestrator.xml file over the existing file in the same directory in the new installation.
- 2 9.0 upgrade: Go to the *old_installation_directory*\common\conf directory and copy the com.softwareag.eda.nerv.properties file over the existing file in the same directory in the new installation. Open the copied file and add this line:

```
com.softwareag.eda.nerv.jms.asynch.subscription=false
```

- 3 9.0 upgrade: Go to the *old_installation_directory*\profiles directory, and then go into the first *profile_name*\configuration\com.softwareag.platform.config.propsloader directory. Copy the com.softwareag.eda.nerv.properties over the existing file in the same directory in the new installation. Open the copied file and add this line:

```
com.softwareag.eda.nerv.jms.asynch.subscription=false
```

Repeat this step for every

profile_name\configuration\com.softwareag.platform.config.propsloader directory.

- 4 If you installed your Business Events 9.5 products on a different machine than the old products, or if you are using different ports, modify the configuration files you just copied to reflect the new host names and port values.

Run the Business Events Migration Utility

For a general description of migration utility behavior, see [“Migration Utilities” on page 32](#). Exceptions:

- You cannot use a Zip file of the old product installation as the source of the data to migrate.
- You cannot change the logging level.

The Business Events migration utility runs without prompting you for any information. The way you run the migration utility depends on whether the 9.5 installation is on the same machine or a different machine than the old installation.

Run the Migration Utility When the Installations are on the Same Machine

- 1 Make sure the old Event Server is shut down.
- 2 Open a command window, go to the *9.5_installation_directory*\EventServer\bin\migrate directory, and run this command:

```
migrate.{bat|sh} -importFile migrate{901|822}sbs.dat  
-srcDir full_path_to_old_Event_Server_installation_directory  
-destDir full_path_to_Event_Server_9.5_installation_directory -silent true
```

Run the Migration Utility When the Installations are on Different Machines

- 1 Copy the *old_installation_directory*\EventServer and \common\EventTypeStore directories to the machine that hosts Event Server 9.5. Recreate the old directory structure on the 9.5 machine. For example, if the old directory structure was C:\SoftwareAG\EventServer and C:\SoftwareAG\common\EventTypeStore, you could create the directory structure C:\ES82\EventServer and C:\ES82\common\EventTypeStore on the 9.5 machine.
- 2 On the 9.5 machine, open a command window, go to the *9.5_installation_directory*\EventServer\bin\migrate directory, and run this command:

```
migrate.{bat|sh} -importFile migrate{901|822}sbs.dat  
-srcDir full_path_to_copied_old_Event_Server_directory  
-destDir full_path_to_Event_Server_9.5_installation_directory -silent true
```

Continue Using Old Predefined Event Types

The migration utility copied the Event Type Store from the old installation to the 9.5 installation, and then restructured the 9.5 Event Type Store. The restructuring moved event types that use their own namespace format to a different location within the *9.5_installation_directory*/common/EventTypeStore directory. If a 9.5 predefined event type existed in the new location, the utility did not overwrite it with the corresponding old predefined event type. This is logged in the migration log file as a warning, as follows:

```
WARN Migration - Schema file 9.5_installation_directory\common\  
EventTypeStore\Common\SAG_CommonComponents.xsd does already exist with different  
content - ignore!
```

If you keep the 9.5 predefined event types, you must update your existing EDA and continuous query applications to accommodate changes in the event types. If you want to instead overwrite the 9.5 predefined event types with the old predefined event types, do the following:

- 1 Go to the `9.5_installation_directory\EventServer\bin\migrate` directory, open the `migrate.{bat|sh}` script in a text editor, and add this parameter to the Java call:

```
-Dcom.softwareag.wep.eventserver.upgrade.migrator.EventTypeStoreMigrator.  
overwrite=true
```

- 2 Run the migration utility again as described in the previous section. The utility logs this message:

```
WARN Migration - Schema file 9.5_installation_directory\common\  
EventTypeStore\Common\SAG_CommonComponents.xsd does already exist with  
different content - overwrite!
```

8 Completing the Integration Server and Hosted Products Upgrade

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Complete the Upgrade for Integration Server and Hosted Products

You complete the Integration Server upgrade by running the Integration Server migration utility. The migration utility migrates data from the Integration Server and from products hosted by the old Integration Server.

Before Migrating Data

- Make sure Integration Server is shut down.
- If you are migrating business process run-time data, the run-time packages you need to migrate are stored in the *old_installation_directory*\IntegrationServer\packages directory under project names or custom names you specified in Designer. If any of these packages start with the letters Wm, go to the *9.5_installation_directory*\IntegrationServer\bin\migrate directory, open the packages.cnf file, and add a <value name></value> tag that identifies each package.
- You can use a Zip file of the old Integration Server installation as the source of the data to migrate. You might use a Zip file when your old and new Integration Server installations are on different machines. Create a Zip file of the entire contents of the old Integration Server installation directory (for example, the *C:\old_installation_directory*\IntegrationServer or the */opt/old_installation_directory/IntegrationServer* directory). If the old and new Integration Server installations are on different machines, copy the Zip file to the machine that hosts Integration Server 9.5.

Run the Integration Server Migration Utility

For a general description of migration utility behavior, see [“Migration Utilities” on page 32](#).

Perform a Custom Migration

- 1 Go to the *9.5_installation_directory*\IntegrationServer\bin\migrate directory.
- 2 7.1, 8.0, or 8.2 upgrade: If the old and new Integration Server installations are on different operating systems, run the appropriate command below.
 - If upgrading from Windows to UNIX or Linux, run the command `export JAVA_TOOL_OPTIONS=-Dfile.encoding=Cp1252`
 - If upgrading from UNIX or Linux to Windows, run the command `set JAVA_TOOL_OPTIONS=-Dfile.encoding=UTF-8`
- 3 Run the command `migrate.{bat|sh}`.

- 4 The utility asks for the full path to one of the following:
- The old Integration Server installation on the same machine (for example, `C:\old_installation_directory\IntegrationServer` or `/opt/old_installation_directory/IntegrationServer`).
 - The Zip file you made of the old Integration Server installation.
- 5 The utility asks whether to import migration settings. Enter N.
- 6 The utility asks whether to migrate Integration Server packages. You can migrate user-created packages (including run-time packages for business processes generated from Designer) and eStandards Module packages that contain IS documents and the schemas for those documents (WmRNPIps, WmChemPayloads, and WmPapinetPayloads).

| You can migrate... | Enter... |
|--|----------|
| All of the packages | A |
| None of the packages | N |
| Selected packages only, in which case the utility lists each package and asks whether to migrate it. | S |

If you are going to migrate run-time data for business processes, you must migrate your business process run-time packages. The package names are the process model names or custom names you specified in the design tool, or names prefixed by Wm that you added to the packages.cnf file earlier.

- 7 The utility asks whether to migrate Integration Server configuration files.

| You can migrate... | Enter... |
|--|----------|
| All of the configuration files | A |
| None of the configuration files | N |
| Selected configuration files only, in which case the utility lists each configuration file and asks whether to migrate it. | S |

There are about 50 configuration files. You must enter Y to all prompts that list config/jdbc files.

- 8 The utility asks you to specify the behavior to use for new 9.5 Integration Server properties and 9.5 Integration Server properties that have new defaults.

| You can choose to... | Enter... |
|---|----------|
| Use new behavior for all properties | N |
| Preserve existing behavior for all properties | E |

| You can choose to... | Enter... |
|--|----------|
| Choose behavior, in which case the utility lists each property and asks whether to use new behavior or preserve existing behavior. | C |

9 7.1 upgrade: Respond to the prompts below.

- a The utility asks whether to migrate Integration Server port certificate settings to the keystores used in 9.5.

| You can migrate... | Enter... |
|--|----------|
| All of the settings | A |
| None of the settings | N |
| Selected settings only, in which case the utility lists each port and asks whether to migrate its certificate settings | S |

For each SSL port you migrate, the utility will convert certificate settings into the keystores used in 9.5. If conversion fails, the utility will revert all migration changes it made to the port and disable the port in Integration Server 9.5.

Note: If you do not migrate certificate settings for a port, and a default Integration Server keystore exists in the 9.5 installation, the port will default to that keystore.

- b The utility asks whether to migrate Integration Server remote server alias certificate settings.

| You can migrate... | Enter... |
|---|----------|
| All of the settings | A |
| None of the settings | N |
| Selected settings only, in which case the utility lists each remote server alias and asks whether to migrate its certificate settings | S |

For each remote server alias you migrate, the utility will convert certificate settings to the 9.5 format. If the conversion fails, the utility will revert all migration changes it made to the remote server alias in Integration Server 9.5.

- c The utility asks whether to migrate Integration Server Web service endpoint aliases.

| You can migrate... | Enter... |
|--|----------|
| All of the aliases | A |
| None of the aliases | N |
| Selected aliases only, in which case the utility lists each Web service endpoint alias and asks whether to migrate it. | S |

For each alias you migrate that is in use by a WSD, the utility detects the type and transport of the WSD and copies that information to the 9.5 files. If an alias is not in use by a WSD, the utility copies the type and transport information in such a way that the alias is available to all WSDs, regardless of type or transport.

The utility will convert type and transport information for Web service endpoint aliases to the 9.5 format. If the conversion fails, the utility will revert all migration changes it made for the alias in Integration Server 9.5.

- d The utility asks whether to migrate Integration Server certificate settings. If you enter Y, the utility will convert the certificate settings into the keystores used in 9.5.
 - e The utility asks whether to migrate Integration Server proxy settings. If you enter Y, the utility will convert your proxy settings to the 9.5 format.
- 10 If the Integration Server hosts other products (for example, Mediator, ActiveTransfer, adapters, and some eStandards Modules), the migration utility asks whether to migrate the data for those products.
- 11 The utility asks whether to migrate Trading Networks. If you enter Y, the utility asks the following:
- a Whether to migrate the Trading Networks configuration file. If you enter Y, the utility copies the configuration properties from the old Trading Networks installation directory, adds them to the new configuration properties in Trading Networks 9.5, and replaces the properties.cnf file in the *9.5_installation_directory*\IntegrationServer\packages\WmTN\config directory.
 - b Whether to migrate Trading Networks data. If you enter Y, the utility does the following:
 - 8.2, 8.0, or 7.1 upgrade: Adds an onboarding IDTYPE to the IDTYPE table in the TradingNetworks database component. Trading Networks uses the new onboarding IDTYPE when you create partners using the Trading Networks Partner Onboarding feature.
 - 8.2, 8.0, or 7.1 upgrade: Imports onboarding system template data into the TEMPLATE, TEMPLATEFIELD, TEMPLATEFIELDDEFS, and TEMPLATEFIELDGROUPDEFS tables in the TradingNetworks database component. The data appears in the default questionnaire templates that accompany invitations you send to new partners using the Partner Onboarding feature.
 - 8.0 or 7.1 upgrade: Because processing rule names must be unique, scans the data for duplicate rule names. If it finds duplicates, the utility adds a sequence number to each rule name to make the names unique.
 - 8.0 or 7.1 upgrade: Adds a new column named TYPE to the Trading Networks 9.5 database table BizDocTypeDef. The column shows the type of each document in the database. For example, XML documents have type=1 and FlatFile documents will have type=2.

- 8.0 or 7.1 upgrade: Adds System Attributes to BizDocAttributeDef table and migrates all existing doctypes for system attribute mapping.
- 12 The utility asks whether to export your settings. If you want to perform other migrations by importing the settings from this session, enter Y. If not, enter N.
- 13 The utility asks whether to begin migration. If you enter N, the utility exits without migrating any data. If you enter Y, the utility migrates the data you selected and prints progress messages to the command window and the migration log. If migration completes successfully, the utility also does the following:
- Deletes old configuration files that are not used by Integration Server 9.5, and deletes old properties that are not used by Integration Server 9.5 from the 9.5 configuration files.
 - If the old Integration Server used the embedded database, copies the database tables from the old Integration Server to Integration Server 9.5 and converts the tables to the new format.
 - 7.1 upgrade: Merges the Integration Server port.cnf and listeners.cnf file.
 - Adds a new property named "Validate schemas using Xerces" to existing Web service descriptors. For information about the new property, see *webMethods Service Development Help 9.5*.
 - 9.0, 8.2, or 8.0 upgrade: Sets the new property to the value the watt.server.wsdl.validateWSDLSchemaUsingXerces parameter had in the old Integration Server. The new property replaces the functionality provided by that parameter.
 - 7.1 upgrade: Sets the new property to true.
 - If the old Integration Server was part of a cluster that used Coherence as its caching software, removes the clustering settings so you can reconfigure the cluster to use a Terracotta-based solution. Support for Coherence was discontinued in release 9.0. For more information, see *webMethods Integration Server Clustering Guide 9.5*.
 - 8.2 upgrade: Updates the SoftwareAG-IS-Core.xml caching file to include caches added for Integration Server 9.5.
 - Sets the watt.art.connection.nodeVersion property to 2, which means adapter passwords are stored unencrypted in the Integration Server passman store and the password handle is stored in the adapter connection. In the previous release, adapter connection passwords were encrypted and then stored in the adapter connection. If you want to return to the previous behavior, set the watt.art.connection.nodeVersion property to 1.

Migrate Using Imported Settings

Imported settings can come from the following:

- Settings you exported from a custom migration. These settings are stored in a file named `migrate.dat` in the `9.5_installation_directory\IntegrationServer\bin\migrate` directory.
- The default migration provided with Integration Server. These settings are stored in a file named `migrate{901|822|801|713}sbs.dat` file in the `9.5_installation_directory\IntegrationServer\bin\migrate` directory. The default migration migrates the following from the old installation to the 9.5 installation:
 - User-defined packages, configuration files, and the embedded database, if you used it.
 - Hosted products, if they also exist on Integration Server 9.5.
 - 7.1 upgrade: Port, remote server alias, and certificate settings; Web service endpoint aliases; and proxy settings. The default migration also updates all Web service descriptors to use Xerces to validate schemas.

For Integration Server properties that are new or that have new defaults, the default migration chooses the behavior that best preserves backwards compatibility.

Follow the steps below to migrate using imported settings.

- 1 If you want to migrate using custom settings, and the Integration Server 9.5 to which to migrate is on a different machine than the `migrate.dat` file, copy the file to any directory on the 9.5 machine.
- 2 Go to the `9.5_installation_directory\IntegrationServer\bin\migrate` directory and run the command `migrate.{bat|sh}`.
- 3 The utility asks for the full path to one of the following:
 - The old Integration Server installation on the same machine.
 - The Zip file you made of the old Integration Server installation.
- 4 The utility asks whether to import migration settings. Enter Y and provide the full path to the `migrate.dat` or `migrate{901|822|801|713}sbs.dat` file.

Migrate Using Imported Settings Silently

You can migrate using imported settings silently (that is, without any user input). If an error occurs, the utility exits.

Go to the `9.5_installation_directory\IntegrationServer\bin\migrate` directory and run one of the commands below.

| To point to... | Run this command... |
|----------------|--|
| Old directory | <pre>migrate.{bat sh} -srcDir full_path_to_old_Integration_Server_installation_directory -importFile full_path_to_{migrate.dat migrate{901 822 801 713}sbs.dat} -silent true</pre> |

| To point to... | Run this command... |
|----------------|--|
| Zip file | <pre>migrate.{bat sh} -srcFile <i>full_path_to_Zip_file</i> -importFile <i>full_path_to_{migrate.dat migrate{901 822 801 713}sbs.dat}</i> -silent true</pre> |

Complete the Integration Server Upgrade

Customize Integration Server Startup Files

If you modified the old Integration Server `server.{bat|sh}` or `setenv {bat|sh}` file, do the following:

- 1 Manually reproduce the changes in the corresponding 9.5 files. The old and new files are in the `installation_directory\IntegrationServer\bin` directory.
- 2 On a Windows system, if you installed Integration Server 9.5 as a service, unregister and re-register the service. For instructions, see *webMethods Integration Server Administrator's Guide 9.5*.

Update WSDLs

If you have Provider Web services that have an operation with field names starting with `xml` in the input signature, output signature, header, or faults, do the following:

- 1 Start Integration Server 9.5.
- 2 Review the `migrationLog.txt` file in the `9.5_installation_directory\install\logs` directory. If you see this error:

A property `watt.server.xml.ncname.encode.backward.compatibility` exists in `config/server.cnf` with value as `true`. Make sure you make the required changes as specified in the upgrade documentation. Not doing so could have adverse effects as support for this property may be dropped in a future release.

Update your WSDLs as follows:

- a Open Integration Server Administrator and point to Integration Server 9.5.
- b Go to the **Settings > Extended** page. If you have the extended setting `watt.server.xml.ncname.encode.backward.compatibility` and it is set to `true`, reset it to `false`.
- c Regenerate the clients for all Provider Web services that have an operation with field names starting with `xml` in the input signature, output signature, header, or faults.

Connect Integration Server Functions to Database Components and Improve Database Performance

- 1 Open Integration Server Administrator and point to Integration Server 9.5.
- 2 Go to the **Settings > JDBC Pools** page and connect Integration Server and the products it hosts to their database components. For instructions, see *Installing webMethods Products 9.5*.
- 3 You can improve database performance by caching prepared statements. For each Pool Alias except the pool alias for Trading Networks, click **Edit** in the **Edit Pool Alias** column and add the DataDirect Connect connection option `MaxPooledStatements=35` to the **Database URL** field.

Note: Trading Networks caches its prepared statements using its own pooling mechanism.

- 4 Restart Integration Server 9.5.

Update Host Names

If you installed Integration Server 9.5 on a different machine than the old Integration Server installation, update the host name as follows:

- 1 If you want to resubmit failed business processes in the 9.5 installation, update the host name in the ISCoreAudit database component.
- 2 Go to the `9.5_installation_directory\IntegrationServer\config\audit` directory, open the `AuditConfig.xml` file, and update the `<server-id>` element to reflect the Integration Server 9.5 host name.
- 3 Update the host name in the `TARGET` column in the `IS_USER_TASKS` database table.
- 4 Update the `SERVERID` column in the `IS_USER_TASKS`, `WMDOCUMENT`, `WMERROR`, `WMRULEDIST`, `WMSECURITY`, `WMSERVICE`, `WMSERVICE4X`, `WMSERVICEACTIVITYLOG`, `WMSERVICEASSOC`, `WMSERVICECUSTOMFLDS`, `WMSESSION`, `WMTXIN`, `WMTXOUT`, and `WMTXOUTWMCONTROL` database tables.

9.0 or 8.2 Upgrade: Complete the ActiveTransfer Upgrade

- 1 Copy keystore files from the old installation to the 9.5 installation and update the keystore file paths. For instructions, see *Managing File Transfers with webMethods ActiveTransfer 9.5*.
- 2 When you configure ActiveTransfer 9.5, make sure that port values, host names and IP addresses, and local and remote file paths in event file operations and the virtual file system (VFS) are correct for the 9.5 installation. For instructions, see *Managing File Transfers with webMethods ActiveTransfer 9.5*.

9.0 Upgrade: Complete the CloudStreams Upgrade

Run the public service `pub.cloudstreams.migration:migrate` in the package `WmCloudStreams`. The service migrates CloudStreams artifacts in custom packages that depend on the `WmCloudStreams` package. Artifacts include SOAP and REST connector service nodes and connection nodes. The utility logs the results of migration to the Integration Server server log.

The input signature for the service is as follows:

| Parameter | Description |
|--------------------|--|
| <i>allPackages</i> | <p>Boolean string. Optional. Set to:</p> <ul style="list-style-type: none"> ■ <code>true</code> to migrate CloudStreams artifacts from all custom packages that are dependent on <code>WmCloudStreams</code>. ■ <code>false</code> to migrate CloudStreams artifacts from only custom packages specified on the <i>packages</i> parameter. This is the default. |
| <i>packages</i> | <p>Object. String array containing the names of custom packages to migrate. You must specify at least one package name.</p> |

The output signature of the service is a parameter named `Result` that consists of an array of `iData` records. The array contains a record for each custom package specified in the input signature. The fields in each record are as follows:

| Field | Description |
|--------------------|---|
| <i>packageName</i> | String. Name of the custom package. |
| <i>success</i> | String. Value that indicates whether migration succeeded (<code>true</code>) or failed (<code>false</code>). |
| <i>message</i> | String. Information about the migration, such as number of CloudStreams artifacts found in the package and number of CloudStreams artifacts that were successfully migrated. |
| <i>warnings</i> | Object. Optional. If the service issued warnings during the migration, string array of the warnings. |
| <i>errors</i> | Object. Optional. If the service issued errors during the migration, string array of the errors. |

Complete Adapter Upgrades

If the old Integration Server hosted adapters and you installed the same release or a later release of those adapters on Integration Server 9.5, complete the tasks below.

webMethods JDBC Adapter

If the adapter connects to an Oracle RDBMS using an OCI driver, set these environment variables on the Integration Server 9.5 machine:

| Platform | Environment Variable Setting |
|----------|----------------------------------|
| Solaris | LD_LIBRARY_PATH=/ORACLE_HOME/lib |
| HP | SHLIB_PATH=/ORACLE_HOME/lib |
| AIX | LIBPATH=/ORACLE_HOME/lib |
| Linux | LD_LIBRARY_PATH=/ORACLE_HOME/lib |

webMethods WebSphere MQ Adapter

If the adapter is installed on a Windows system, and the WebSphere MQ back end is installed on a remote machine, go to the *WebSphereMQ_directory*\java\lib directory and copy the mqjbdnn.dll file into a local directory that is in your path system environment variable.

webMethods PeopleSoft EnterpriseOne Adapter

If the adapter connects to an Oracle RDBMS, go to the *old_installation_directory*\IntegrationServer\lib\jars directory and copy the Oracle JDBC driver file to the *9.5_installation_directory*\IntegrationServer\lib\jars\custom directory.

webMethods SAP Adapter

- If the Integration Server 9.5 machine uses UNIX, set these environment variables on the machine:

| Platform | Environment Variable Setting |
|----------------|------------------------------|
| Linux, Solaris | LD_LIBRARY_PATH |
| HP | SHLIB_PATH |
| AIX | LIBPATH |

- Go to the *old_installation_directory*\IntegrationServer\lib directory and copy all files whose file name contains the phrase *sapjco*. to the *9.5_installation_directory*\IntegrationServer\lib\jars\custom directory.
- If the Integration Server 9.5 machine uses Windows, go to the C:\WINDOWS\system32\drivers\etc directory on the old Integration Server machine, open the services file, and copy all entries that contain the phrase "sapgw"

into the same file in the 9.5 installation. Examples of these entries are sapgw00 3300/tcp, sapgw01 3301/tcp, sapgw02 3302/tcp, sapgw03 3303/tcp, sapgw04 3304/tcp, and sapgw05 3305/tcp.

Complete eStandards Module Upgrades

If the old Integration Server hosted eStandards Modules and you installed the same release or a later release of those modules on Integration Server 9.5, complete the tasks below.

webMethods Chem eStandards Module, webMethods ebXML Module, webMethods papiNet Module, and webMethods RosettaNet Module

Go to the *old_installation_directory*\IntegrationServer\packages*package_name*\config and copy the config.cnf file to the same directory in the 9.5 installation.

webMethods FIX Module

- 1 Go to the *old_installation_directory*\IntegrationServer\packages\WmFIX\code\jars directory and copy the appia.jar file to the same directory in the 9.5 installation.
- 2 If you installed the same release of FIX Module on Integration Server 9.5, go to the *old_installation_directory*\IntegrationServer\packages and copy the WmFIXMessages package to the same directory in the 9.5 installation.

webMethods SWIFT FIN Module

- 1 Go to the *old_installation_directory*\IntegrationServer\packages\WmFIN\config and copy the properties.cnf, wmcasmf.cnf, and fintransport.cnf files to the same directory in the 9.5 installation.
- 2 If you installed the same release of SWIFT FIN Module on Integration Server 9.5, go to the *old_installation_directory*\IntegrationServer\packages and copy the WmFINMessages package to the same directory in the 9.5 installation.

webMethods SWIFTNet Module

Reconfigure the module. For instructions, see the *webMethods SWIFTNet Module Installation and User's Guide*.

9 9.0 or 8.2 Upgrade: Completing the Terracotta Upgrade

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| ■ Complete the Terracotta Upgrade | 66 |
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Complete the Terracotta Upgrade

This procedure explains how to complete the upgrade for a pre-3.7.6 Terracotta Server Array that has a single server or a mirror group consisting of an active server and a mirror server. For all other setups, see the Terracotta 9.5 documentation.

- 1 Locate the `terracotta-license.key` file and the `tc-config.xml` file in your old Terracotta installation and copy it to the 9.5 installation. The default location for the `terracotta-license.key` file is the Terracotta installation directory, and the default location for the `tc-config.xml` file is the `installation_directory\Terracotta\bin` directory.
- 2 If you installed Terracotta 9.5 servers on a different machine than the old Terracotta servers, open the `tc-config.xml` file you copied to the 9.5 installation. In the `<servers>` element, set the host names to the host machines for the 9.5 server. For example:

```
<servers>
  <server host=host_name_for_9.5_server1 name="Server1">
    ...
  </server>
  <server host=host_name_for_9.5_server2 name="Server2">
    ...
  </server>
</servers>
```

- 3 If you modified the `start-tc-server.{bat|sh}` file in your old Terracotta installation (for example, you might have modified heap size or direct memory settings), go to the `9.5_installation_directory\Terracotta\bin` directory and make the same modifications in the 9.5 `start-tc-server.{bat|sh}` file.
- 4 If you have a single server, shut down your old Terracotta Server Array and start the 9.5 Terracotta Server Array. If you have a mirror group consisting of an active server and a mirror server, shut down the old mirror server and then shut down the old active server. Start active server 9.5 and then start mirror server 9.5.

10 Completing the Designer, Business Process Run-time, and Blaze Upgrades

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Migrate Designer Data

Before Migrating Data

- 1 Open Designer 9.5 and point to a new 9.5 workspace. For example, you can accept the default workspace95.
- 2 Install any third-party features you need (for example, support for Subversion). The Eclipse release installed with Designer 9.5 is Eclipse 4.3, so make sure any features you add are compatible with Eclipse 4.3.
- 3 9.0 or 8.2 upgrade: If you are upgrading Business Events, do the following:
 - a 9.0 upgrade: Go to the File > Import wizard. In the Select panel, go to Run/Debug > Launch Configurations and click Next. In the From Directory field, go to the directory to which you exported your Event Bus Console configurations in [“9.0 or 8.2 Upgrade: Export Event Bus Console Configurations”](#) and select all files with the extension .launch. Click Finish.
 - b 9.0 or 8.2 upgrade: Go to the Events Development perspective, click the Run/Run Configurations menu option, and go to your Event Bus Console instance. You can choose to do either of the following:
 - In the Run Configurations dialog box, select the Event bus configuration file check box. In the Event Bus Configuration field, browse to the ConfigEDAOrchestrator.xml file you migrated in [“Migrate EDA Configuration Files”](#) on page 50, and then click Apply.
 - In the Run Configurations dialog box, click the Configure NERV Settings link. On the Preferences dialog box, in the NERV configuration file field, browse to the com.softwareag.eda.nerv.properties file you migrated to the `9.5_installation_directory\common\conf` directory in [“Migrate EDA Configuration Files”](#) on page 50. Click Apply and then click OK.
- 4 If you exported your preferences before upgrading, do the following:
 - a Go to the File > Import wizard. In the Select panel, go to General > Preferences and click Next. In the From preference file field, specify the .epf file to which you exported your preferences. Click Finish.
 - b Go to Window > Preferences. In the preferences window, go to the Java > Installed JREs > Execution Environments page, if multiple JREs are listed, make sure JRE 1.7 is selected as the default, or remove JRE 1.6 from the list. Also update settings that point to old product installations to point to 9.5 product installations instead. For example, for My webMethods Server, update the Server > Runtime Environments settings.

Migrate Business Process, Business Rule, and Continuous Query Design-time Data

This section explains how to migrate the following to 9.5:

- Business process design-time data. For business processes, design-time data are your business process models, stored in business process projects.
- 9.0 or 8.2 upgrade: Business rule design-time data. For business rules, design-time data are your business rule projects.
- 9.0 or 8.2 upgrade: Continuous query design-time data. For continuous queries, design-time data are your continuous query projects.

Follow the steps below to migrate the data.

- 1 Start Designer 9.5.
- 2 If your projects are stored in a source control system, use the import wizard for that system (for example, **Import SVN > Project from SVN**). If your projects are stored in the Designer workspace, do the following:
 - a Go to the **File > Import** wizard.
 - b In the **Select** panel, go to **General > Existing Projects into Workspace** and click **Next**.
 - c In the **Import Projects** panel, do the following:
 - i Click **Select Root Directory** and go to the workspace that contains a type of project you want to import, or click **Select Archive File** and go to the directory that contains a type of project you want to import.
 - ii In the **Projects** box, select the projects to import.
 - iii Select **Copy projects into workspace**.
 - iv Click **Finish**.
- 3 Verify the following:
 - All imported business process projects appear in the **Solutions** tab under the **Processes** node.
 - 9.0 or 8.2 upgrade: All imported business rules projects appear in the **Solutions** tab under the **Rules** node.
 - 9.0 or 8.2 upgrade: All imported continuous query projects appear in the **Project Explorer** tab.
- 4 9.0 or 8.2 upgrade: If you imported business rule projects, right-click each project in the **Rules Explorer** and then click **Upgrade Project**.
- 5 9.0 or 8.2 upgrade: If you imported continuous query projects, click the **Problems** tab. You might see issues:
 - 8.2 upgrade: Version 8.2 asset lacks reference to event type ID - use quick fix to migrate.

- 9.0 upgrade: Unexpected model version '9.0.0.0.607', expected '9.0.1.0.744' - use quick fix to migrate.

Right click each issue and click **Quick Fix**.

8.2 or 8.0 Upgrade: Migrate Task Design-time Data

This section explains how to migrate task design-time data to 9.5. For tasks, design-time data are your task application projects.

- 1 In Designer 9.5, go to **Window > Preferences > Server > Runtime Environments**. If the **Installed server runtimes** list does not include a **My webMethods Server 9.5**, add one.
- 2 Go to **Software AG > Task Development**. In the preferences window, make sure all your other task-related Designer preferences are correct, and then click **OK**.
- 3 Go to the **File > Import** wizard.
 - a In the **Select** panel, go to **Software AG > Existing CAF Projects into Workspace** and then click **Next**.
 - b In the **Import Projects** panel, click **Select Root Directory** and go to the workspace or source control system that contains your task application projects, or click **Select Archive File** and go to the directory that contains your task application projects. The projects appear in the **Projects** box. Select the projects to import into Designer 9.5.
 - c Select **Copy projects into workspace** and then click **Finish**.
- 4 Make sure all imported task application projects appear in the **Solutions** tab, under the **Tasks** node.
- 5 If errors appear in the **Problems** tab, click the **Navigator** tab. Right-click each task application project, click **CAF Tools**, and click **Repair CAF Project**. If errors still appear, restart Designer.
- 6 Publish the migrated task application projects to **My webMethods Server 9.5**. For instructions, see *webMethods BPM Task Development Help 9.5*.

9.0 Upgrade: Migrate CloudStreams Server Definitions and Projects

- 1 Start Designer 9.6.
- 2 Import CloudStreams Server definitions as follows:
 - a Go to the **CloudStreams Development** perspective, then go to **Window > Preferences**. On the **Preferences** dialog box, in the left navigation bar, go to **Software AG > CloudStreams Servers**.
 - b Click **Import**, select the **.properties** file you exported, and click **Open**. Designer asks whether to overwrite existing servers. Click **OK**, and then click **OK** again to close the **Preferences** dialog box.

- 3 Import CloudStreams Governance projects as follows:
 - a Go to the **File > Import** wizard. In the **Select** panel, go to **Software AG > CloudStreams Governance Project** and then click **Next**.
 - b In the **Import CloudStreams Governance Project** panel, specify the directory that contains the projects you exported in the **Select Root Directory** field. In the **Projects** box, select the projects to import.
 - c Select **Copy projects into workspace** and then click **Finish**.
 - d In the **CloudStreams Development** perspective, make sure all imported governance projects appear in the **CloudStreams Governance** tab.

8.2 or 8.0 Upgrade: Migrate Integration Server Definitions

- 1 In Designer 9.5, go to **Window > Preferences**.
- 2 On the **Preferences** dialog box, in the left navigation bar, go to **Software AG > Integration Servers**.
- 3 Click **Import**, select the **.properties** file you exported, and click **Open**. Designer asks whether to overwrite existing servers.
- 4 Click **OK**, and then click **OK** again to close the **Preferences** dialog box.

7.1 Upgrade: Migrate Logical Server Definitions

- 1 In Designer 9.5, go to **Window > Preferences**.
- 2 On the **Preferences** dialog box, in the left navigation bar, go to **Software AG > Integration Servers**.
- 3 Click **Import**, select the **.properties** file you exported earlier, and click **Open**. Designer asks whether to overwrite existing servers.
- 4 Click **OK**, and then click **OK** again to close the **Preferences** dialog box.
- 5 Create the server definitions that define the connections to the **Integration Servers** that will run process steps. For instructions, see *webMethods Service Development Help 9.5*.

Complete the Business Process Run-time Upgrade

Note: If you have running process instances that are based on a process model created before you upgraded to 9.5, and you now want to regenerate that process model in Designer 9.5, change the version number of the process model to the next sequence number before regenerating it. If you do not do so, the process instances will not behave as expected. When you enable the new version of the process model for execution in My webMethods Server, you will be asked if you want to upgrade running processes; respond No.

- 1 If you migrated webMethods Broker to 9.5 using the instructions in [“Completing the webMethods Broker Upgrade” on page 39](#), make sure the new Broker that will be used by the Process Engines has the same name in 9.5 that it had in the old release. To do so, open Integration Server Administrator and point to Integration Server 9.5. Go to the IS Settings > Messaging > webMethods Messaging Settings page and check the Broker name.
- 2 If you migrated process run-time packages using the instructions in [“Run the Integration Server Migration Utility” on page 54](#), make sure the packages exist in the `9.5_installation_directory\IntegrationServer\packages` directory. The package names are the project names or custom names you specified in Designer.
- 3 8.0 or 7.1 upgrade: In 8.0 and 7.1 releases of Process Engine, if a field was included in a transition condition expression and that field was missing from the pipeline at run time, the Process Engine evaluated the expression as if the field existed with a NULL value, which resulted in an evaluation of TRUE. These evaluation semantics were found to be ambiguous, and the behavior was corrected in Process Engine 9.0, where expressions containing a reference to a missing field evaluate to FALSE.

The change in behavior means existing pre-9.0 processes that rely on this pre-9.0 behavior no longer work as expected, so Software AG has provided a temporary compatibility setting that tells Process Engine 9.5 to evaluate missing fields the same way they were evaluated in pre-9.0 releases of Process Engine. To implement this setting, follow the steps below.

Important! This temporary compatibility setting is only provided so that you can quickly and easily resume running your pre-9.0 processes in a 9.5 environment. The setting will be removed in a future release. In 9.5, operators are available to test for a missing field, so you can construct expressions using these new operators. At some point after the upgrade you must change all affected transition conditions in your pre-9.0 processes so they no longer rely on the ambiguous pre-9.0 evaluation semantics.

- a Shut down Integration Server 9.5.
- b Go to the `Integration Server_directory/packages/WmPRT/config` and open the `prt.cnf` file in a text editor. Set `watt.prt.80Compatibility.evalMissingFieldAsNull=true` and save the files.

- c Restart Integration Server.
- 4 Open Integration Server Administrator and point to Integration Server 9.5. Go to the **Settings > JDBC Pools** page and connect the ProcessEngine and ProcessAudit functions to their database components. For instructions, see *Installing webMethods Products 9.5*.
- 5 Make sure document retrieval for all webMethods messaging triggers is enabled on Integration Server 9.5. For instructions, see *webMethods Integration Server Administrator's Guide 9.5*.

Update Host Names

If you installed your 9.5 business process products on a different machine than the old installation, update the host name in the SERVERID column in the PRTINSTANCEITER, PRTPROCESS, PRTPROCLOCK, PRTQUEUE, PRTSTEPLOCK, PRTSTEPSTATE, PRTSTEPSUSPENSION, WMCUSTOMLOOPDATA, WMCUSTOMPROCESSDATA, WMPROCESS, WMPROCESSASSOC, WMPROCESSBLOCKAGE, WMPROCESSSTEP, WMPROCESSSTEPLOOP, WMPROCESSTRANSITION, WMSTG_PROCESS_CONTROL, WMSTG_PROCESS_STEP, and WMRULEDIST database tables.

Complete the Blaze Rules Upgrade

Migrate Blaze rules using the instructions in *Using Blaze Rules with BPM and CAF 9.5*.

11 9.0 Upgrade: Completing the Command Central and Platform Manager Upgrades

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| ■ Complete the Platform Manager Upgrade | 77 |

Complete the Command Central Upgrade

You complete the Command Central upgrade by migrating its infrastructure and then running the Command Central migration utility. The migration utility migrates metadata about the environment, nodes (installations), and products that Command Central is managing.

Migrate the Command Central Infrastructure

Perform the migrations below, but look for the files in the CCE directory rather than the CTP directory.

- [“9.0 Upgrade: Migrate Port Configurations”](#)
- [“9.0 or 8.2 Upgrade: Migrate the Journal Logger Configuration”](#) on page 36
- [“9.0 or 8.2 Upgrade: Migrate the Password Manager Configuration”](#) on page 36
- [“9.0 Upgrade: Migrate Java Service Wrapper Customizations”](#) on page 37
- [“9.0 Upgrade: Migrate the JAAS Configuration”](#) on page 37

Run the Command Central Migration Utility

For a general description of migration utility behavior, see [“Migration Utilities”](#) on page 32. The Command Central migration utility runs without prompting you for any information. The way you run the migration utility depends on whether the 9.5 installation is on the same machine or a different machine than the old installation.

Run the Migration Utility When the Installations are on the Same Machine

- 1 Make sure the old Command Central is shut down.
- 2 Open a command window, go to the `9.5_installation_directory\CCE\bin\migrate` directory, and run this command:

```
migrate.{bat|}
-srcDir full_path_to_old_Command_Central_installation_directory
-importFile full_path_to_{migrate.dat|migrate901sbs.dat} -silent true
```

Run the Migration Utility When the Installations are on Different Machines

- 1 Create a Zip file of the old Command Central installation and copy the Zip file to the machine that hosts Command Central 9.5. In the Zip file, include all the directories beneath the `C:\old_installation_directory\profiles\CCE` directory, but do not include the CCE directory itself.
- 2 Open a command window, go to the `9.5_installation_directory\CCE\bin\migrate` directory, and run this command:

```
migrate.{bat|} -srcFile full_path_to_Zip_file
-importFile full_path_to_{migrate.dat|migrate901sbs.dat} -silent true
```

Complete the Platform Manager Upgrade

Perform the migrations below, but look for the files in the SPM directory rather than the CTP directory.

- “9.0 Upgrade: Migrate Port Configurations”
- “9.0 or 8.2 Upgrade: Migrate the Journal Logger Configuration” on page 36
- “9.0 or 8.2 Upgrade: Migrate the Password Manager Configuration” on page 36
- “9.0 Upgrade: Migrate Java Service Wrapper Customizations” on page 37
- “9.0 Upgrade: Migrate the JAAS Configuration” on page 37

12 9.0 or 8.2 Upgrade: Complete the CentraSite Upgrade

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| ■ Complete the CentraSite Upgrade | 80 |
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Complete the CentraSite Upgrade

- 1 If you installed CentraSite 9.5 on a different machine than the old CentraSite, copy the backup you made in [“9.0 or 8.2 Upgrade: Prepare the Old CentraSite Environment”](#) to the 9.5 machine.
- 2 Apply the latest fix to CentraSite 9.5 using the Software AG Update Manager. For instructions, see *Using the Software AG Update Manager*.
- 3 Use the script `MoveCentraSiteRR.{cmd|sh}` to move the CentraSite database. For instructions, see the CentraSite 9.5 documentation.

Note: Depending on the structure and content of your CentraSite Registry Repository, startup of the Registry Repository after upgrade might take a long time.

- 4 Change any settings in CentraSite Control that you noted in [“9.0 or 8.2 Upgrade: Prepare the Old CentraSite Environment”](#).
- 5 If you installed plug-ins that are GUI extensions for CentraSite Control in the old CentraSite installation, install them in the CentraSite 9.5 installation.
- 6 8.2 upgrade: If you were using IAF (Integrated Authentication Framework) with CentraSite 8.2, contact Software AG Software AG Global Support.
- 7 8.2 upgrade: If you want to use instances of ApplinX object types from CentraSite 8.2 in CentraSite 9.5, manually re-create them.

13 9.0 or 8.2 Upgrade: Complete the OneData Upgrade

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Complete the OneData Upgrade

- 1 If you changed values in the old OneData.properties file from their defaults, make the same changes in the 9.5 OneData.properties file. The OneData.properties file is located in the *installation_directory*\profiles\ODE\bin\onedata\config directory.
- 2 If you changed values in the old OneData wrapper.conf file from their defaults, make the same changes in the 9.5 wrapper.conf file. The wrapper.conf file is located in the *installation_directory*\profiles\ODE\configuration directory.
- 3 In the old OneData, log entries for an action in OneData might have been distributed across multiple files. In 9.5, to improve debugging, log entries for an action are written to a single file. For examples of how to enable the new method of logging for OneData modules, go to the *9.5_installation_directory*\OneData\config directory and open the sample_log4j_config.txt file.
- 4 Start OneData 9.5 and go to the Home > Administer > System > Metadata Repository Configuration page. Enter the values you noted earlier for Administrator E-mail, SMTP Gateway, Repository Description, Repository Owner, Contact Person, and Disable Scheduler on This Node.

14 Completing the Optimize Upgrade

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Configure and Start the Terracotta Server Array

If you are clustering Analytic Engines in release 9.5, you must configure and start the Terracotta Server Array. For instructions, see *Getting Started with the webMethods Product Suite and Terracotta 9.5*, *Configuring BAM 9.5*, and the Terracotta 9.5 documentation.


Migrate the Infrastructure Data Collector Infrastructure

Perform the migrations below, but look for the files in the InfraDC directory rather than the CTP directory.

- “9.0 or 8.2 Upgrade: Migrate Java Service Wrapper Customizations” on page 36
- “9.0 or 8.2 Upgrade: Migrate the JAAS Configuration” on page 37

Update Connection to Process Engine

If you are using Optimize for Process, do the following:


- 1 Start the Integration Server 9.5 that hosts a Process Engine.
- 2 Open Integration Server Administrator and point to Integration Server 9.5.
- 3 Go to the Packages > Management page and click  for the WmPRT package.
- 4 Go to the Process > Settings page. Click Edit Process Engine Settings and then click Default.
- 5 In the JMS Server URL field, change localhost to the correct host, the port to the correct port, and Broker Client(Broker #1) to the correct Broker Client name. Click Submit.

Important! Do not change the broker:// or /analysis parts of the URL.

- 6 Reload the WmPRT package.

Update Connection to Optimize Support Package

If you are using Optimize built-in services, do the following:

- 1 Start the Integration Server 9.5 that hosts the Optimize Support package.
- 2 Open Integration Server Administrator and point to Integration Server 9.5.
- 3 Go to the Packages > Management page and click  for the WmOptimize package.
- 4 In the Analytic Engine host field, specify the Analytic Engine host machine.
- 5 In the Analytic Engine port field, specify the port for the Analytic Engine. The default is 12503.

- 6 In the **JMS Server URL** field, change `localhost` to the JMS host, the port to the correct port, and `Broker Client(Broker #1)` to the correct Broker Client name. Click **Submit**.

Deploy the Optimize Environment

Unless otherwise noted, see *Configuring BAM 9.5* for detailed instructions on the Optimize steps in the sections below.

Note: You cannot migrate rule violation history for process intrinsic metrics to Optimize 9.5.


To Not Reuse the Old Optimize CCS Environment Definition



If you do not want to reuse your old Central Configuration System (CCS) Environment definition, start My webMethods Server 9.5, open My webMethods, and configure your Optimize 9.5 environment. Then skip to the step for deploying the Optimize 9.5 environment, below.

To Reuse the Old Optimize CCS Environment Definition

To reuse the old CCS environment definition that you exported to file before installing Optimize 9.5, follow the steps below.

- 1 Start My webMethods Server 9.5 and open My webMethods.
- 2 Import the old CCS environment, as follows:
 - a Go to the **Applications > Administration > System-Wide > Environments > Define Environments** page.
 - b Click **Import Environment**. On the Import Environments dialog box, click **Browse**, go to the file to which you exported the old CCS environment, and click **OK**. When prompted, confirm the migration.
 - c When asked "Do you wish to migrate the environment to the latest version?", click **Yes**. The CCS imports the old environment and migrates it to 9.5 Optimize Logical Servers.
- 3 Update the database pool connection settings for the database pool definition associated with the environment you imported, as follows:
 - a Go to the **Applications > Administration > System-Wide > Environments > Database Pool Configuration** page.
 - b In the **Pool** column, click the imported database pool.
 - c In the **Pool Settings** area, set the **Minimum Connections** field to 8, and the **Maximum Connections** field to 60.

- d Make sure the database connection information is correct. In the **Database Connection** area, click **Test** and make sure the message `Test Passed` displays at the bottom of the page.
 - e Click **Save**.
- 4 Go to the **Applications > Administration > System-Wide > Environments > Define Environments** page. Under **Environment Name**, click the environment you imported.
- 5 7.1 upgrade: If you are using Optimize for Infrastructure, do the following:
- a Click the **Design Servers** tab and click **Add**. Select **Infrastructure Data Collector v9.5.0.0** and click **OK**.
 - b Click the **Configure Servers** tab and do the following:
 - i Open the **Infrastructure Data Collector v9.5.0.0** tree and click **Collector Settings**.
 - ii Go to the `old_installation_directory\InfrastructureDC` directory and open the `infradc.cnf` file.
 - iii Copy the `DataCollectorName` property setting from the old `infradc.cnf` file to the **Collector Name** field on the **Configure Servers** tab. If you are using the default `DataCollectorName InfraDC@host\ :port`, remove the backslash from the copied value.
 - iv The default polling interval was 4 minutes in the old release but is 5 minutes in the 9.5 release. If you want to use your old setting instead of the 9.5 default, copy the `pollinterval` property setting from the old `infradc.cnf` file to the **Monitor Polling Interval** field.
 - v Select the check box next to each **Load *asset type*** for which you want to load metadata. If you were monitoring **Brokers** or **Integration Servers** in your old environment, select those check boxes. If you will be monitoring **Enterprise Transaction Systems (ETS) assets**, select the appropriate check boxes. You must select at least one check box or configuration validation will fail.
 - vi Click **Save**.
 - c Click the **Map Servers** tab and do the following:
 - i Click  in the **Actions** column for **Infrastructure Data Collector v9.5.0.0**.
 - ii In the **Edit Host Mapping** dialog box that displays, move the **Infrastructure Data Collector** host from the **Available Hosts to Map** list to the **Mapped Hosts to This Logical Server** list.
 - iii Click **Save**.
 - d Click **Save**.
- 6 Validate the environment as follows:

- a Click each tab that shows the icon  except the **Validate** tab. If you change any settings on a tab, and the tab has a **Save** button, click **Save**.
 - b When all tabs except the **Validate** tab show , click the **Validate** tab.
- 7 Click **Finish**.

Deploy the Optimize 9.5 Environment

- 1 Start the Optimize 9.5 components you installed. These components can include the Analytic Engine, Infrastructure Data Collector, and the Web Services Data Collector.
- 2 Deploy your Optimize 9.5 environment. For instructions, see *Configuring BAM 9.5*.
- 3 In My webMethods, go to the **My webMethods > System Settings > Servers** page.
 - If you have BPMS installed, select the **BPM and BAM** option and identify the upgraded Analytic Engine and the Integration Server that hosts Monitor. You can identify the hosts using DNS name or IP address.
 - If you have BPMS installed, but are not using BPM (that is, you are using only Optimize), select the **BAM only** option and identify the upgraded Analytic Engine. You can identify the host using DNS name or IP address.

Click **Check Server Status** and make sure the server is available (green icon). It might take some time for the server to become available (for example, 15 minutes). Then click **Save**.

8.2 Upgrade: Remove Old Integration Server Clusters and Add New

- 1 Make sure all the Optimize 9.5 components are running.
- 2 In My webMethods, go to the **Administration > Analytics > Infrastructure Components > Monitored Components** page. In the **Monitored Components** list, see if the **Available** column for **IS Cluster** or **IS Cluster Server** shows a number greater than 0. If it does, proceed to the next step.
- 3 Click **IS Cluster** and then click **Add Components**. The **Add Component Instances** window lists the names of the Integration Server cluster nodes you need to remove. Copy the names to a new text file, listing each name on a separate line. For example:


```
com.wm.isextdc.IsCluster:name=is821clustertest discoveryAddress=225.9.203.67
discoveryPort=39273
com.wm.isextdc.IsCluster:name=rdvmaclustertest
discoveryAddress=234.2.223.208 discoveryPort=16477
```
- 4 Save the text file in DOS format (that is, new line conversion) regardless of the operating system you are using (that is, Windows or UNIX). You can use any name with any extension.
- 5 Shut down the Analytic Engine.

- 6 Open a command window, go to the `9.5_installation_directory\Optimize\analysis\bin` directory, and enter this command:

```
cleanupOldClusterComponents.{bat|sh} text_file_name
```

You will see progress messages in the command window, ending with the message `Removed cluster components.`

- 7 Restart the Analytic Engine.
- 8 Rediscover the Integration Server 9.5 clusters you want to monitor, set up the KPIs you noted before upgrading, and restart monitoring. For instructions, see *Administering webMethods Optimize 9.5*.

Rediscover Assets and Reestablish Monitoring in Optimize for Infrastructure

Optimize for Infrastructure assets that were monitored in the old installation will not automatically be monitored in the 9.5 installation owing to changes in the definition of metadata. Historical readings are retained, but to restart monitoring after migration, you must rediscover the assets and reestablish monitoring for them as described below.

- 1 8.2, 8.0, or 7.1 upgrade: Go to the **Applications > Administration > Analytics > Infrastructure Components > Discovery** page and follow the steps below.
 - a Click **Add Asset**. In the **Asset Type** list, click **SNMP**.
 - b Rediscover and monitor SNMP agents. For instructions, see the section on discovering assets and monitoring components in *Administering webMethods Optimize 9.5*.
 - c Restart Infrastructure Data Collector.
- 2 7.1 upgrade: Perform the steps below.
 - a In My webMethods, go to the **Applications > Administration > Analytics > {Infrastructure|Monitored} Components > Discovery** page. In the **Actions** column, rerun discovery for assets you want to monitor.
 - b Go to the **Applications > Administration > Analytics > {Infrastructure|Monitored} Components > Monitored Components** page. Select the components and KPIs to monitor that you noted before upgrading.
 - c Some predefined Optimize KPIs have been changed to generate delta values. You can configure them to monitor cumulative values instead.

Note: As a result of the KPI definition changes, data previously collected for IS Service, Broker, and Custom Adapter common event maps are deleted during migration.

- i For the IS Service Count KPI, click **IS Service**, click **Add KPIs**, and then click **CumulativeCount**.
- ii For the `BrokerStats.numEventsPublished`, `BrokerStats.numEventsQueued` and `BrokerStats.numEventsDelivered` KPIs, click **Broker** and then click **Add KPIs**. Then click `BrokerStats.cumulativeNumEventsPublished`, `BrokerStats.cumulativeNumEventsQueued`, and `BrokerStats.cumulativeNumEventsDelivered`.
- iii For the `ClientStats.numEventsPublished`, `ClientStats.numEventsDelivered` and `ClientStats.numEventsRetrieved` KPIs, click **Custom Adapter** and then click **Add KPIs**. Then click `ClientStats.cumulativeNumEventsPublished`, `ClientStats.cumulativeNumEventsDelivered`, and `ClientStats.cumulativeNumEventsRetrieved`.

8.0 or 7.1 Upgrade: Recreate Event Maps and Associated Assets

The names of the event types that Optimize monitors for orchestrated business processes (that is, business processes that are executed by Process Engines) changed in the 8.2 release. Your old Optimize event maps, therefore, refer to event types that no longer exist, which means that the event maps will no longer receive events. You must recreate your event maps, and you must recreate all Optimize assets that are associated with the event maps, such as KPIs and rules.

- 1 Manually start a process instance for one of your orchestrated business processes.
- 2 In My webMethods, go to the **Administration > Analytics > KPIs > Business Data** page. Map unmapped event types for the process, and recreate associated assets such as KPIs and rules. For instructions, see *Administering webMethods Optimize 9.5*.
- 3 Repeat these steps for all your business processes.

15 Completing the Asset Build Environment and Deployer Upgrades

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| ■ 9.0 Upgrade: Complete the Asset Build Environment Upgrade | 92 |
| ■ Complete the Deployer Upgrade | 92 |

9.0 Upgrade: Complete the Asset Build Environment Upgrade

Go to the `old_installation_directory\common\AssetBuildEnvironment\master_build` directory and open the `build.properties` file. Copy the property values to the same file in the 9.5 installation.

Complete the Deployer Upgrade

Important! You must follow the instructions in this guide to upgrade all source and target `webMethods` servers that were defined in the old Deployer to their 9.5 releases, and to migrate all `webMethods` product data and assets to the 9.5 releases, before you can migrate Deployer data.

Before Migrating Deployer Data

- 1 Make sure you are a member of the Administrators ACL, or of the Internal, Developer ACLs, and DeployerAdmin ACLs, for both the Integration Server that hosts the old Deployer and the Integration Server that hosts Deployer 9.5. For instructions, see *webMethods Integration Server Administrator's Guide 9.5*.
- 2 Migration of Deployer data after installation requires both the old Deployer and Deployer 9.5 to be running. Make sure both are shut down, then start the old Deployer.
- 3 If you installed Deployer 9.5 on the same machine as the old Deployer, and you want Deployer 9.5 to use the same ports the old Deployer used, change the ports used by the Integration Server that hosts the old Deployer as follows:
 - a In Integration Server Administrator, point to the Integration Server that hosts the old Deployer.
 - b Go to the Security > Ports page.
 - c Click **Add Port**, click `webMethods/HTTP`, and click **Submit**. Enter the port details, click **Yes for Enable**, click `WmRoot` under the package name, and click **Save Changes**.
 - d Click **Change Primary Port**, click the new port, and click **Update**. Disable the old port by clicking **Yes** in the **Enabled** column for that port.
 - e In the **Access Mode** column of the new port, click **Edit**. In the **Edit Access Mode** page for the port, click **Set Access Mode to Allow by Default**. Click **OK** on the warning pop-up. The message `Successfully changed access mode for Port Service Access Settings` appears.
- 4 Start Deployer 9.5 and go to the **Tools > Migrate Data** page.
- 5 In the **Host** and **Port** fields, identify the old Deployer to migrate from.

- 6 In the **User** and **Password** fields, provide the user name and password to use to log onto the old Deployer.
- 7 Deployer 9.5 lists the aliases, target groups, or projects to migrate in the right-hand pane. In the **Page Size** list, click the number of aliases or projects to list at a time.

Migrate Global (Default) Settings


In Deployer, you set defaults for all projects, such as defaults for dependency checking, project locking, and general deployment. You also set defaults for Integration Server and Trading Networks projects, such as defaults for suspending assets during deployment, overwriting existing assets, and activating assets after deployment. You set these defaults on the **Deployer > Settings** page.

You can migrate these default settings to Deployer 9.5. To do so, click **Migrate Default Settings**.

Migrate Target Groups

- 1 Make sure you migrated all aliases in each target group you want to migrate. If you do not want to migrate certain aliases in a target group, remove those aliases from the target group in the old Deployer.

Important! If you do not remove unmigrated aliases from target groups in the old Deployer, the migrated target groups in Deployer 9.5 will include invalid aliases, and deployment of projects that use the target groups will fail.

- 2 Click **Migrate Target Groups**. In the **Select Server** list, click the type of server whose target groups to migrate.
- 3 In the **Simulate Migration** column, click  in the row for each target group to migrate. Deployer displays a message that indicates whether the aliases that are referenced by the target group have been migrated. You must either migrate the aliases or remove them from the target group in the old Deployer.
- 4 In the **Select** column, select the check boxes next to target groups to migrate. In the **Point Selected Aliases to Groups** list, click **9.5**.
- 5 Click **Migrate Target Groups**. Deployer migrates the selected target groups, then disables those rows and displays **Yes** in the **Migrate** column for the groups.


Migrate Connection Information (Server Aliases)

Important! You must migrate all source and target server aliases except Integration Server HTTPS server aliases, which Deployer cannot migrate.

- 1 Click **Migrate Server Aliases**. In the **Select Server** list, click the type of server whose aliases to migrate.
- 2 In the **Select** column, select the check boxes next to the server aliases to migrate. Update the connection information to point to the 9.5 servers. If you do not know user names and passwords, you do not have to supply them to migrate the aliases.
- 3 In the **Point Selected Aliases to Servers** list, click **9.5**.
- 4 Click **Migrate Server Aliases**. Deployer migrates the selected aliases, then disables those rows and displays **Yes** in the **Migrate** column for the aliases.
- 5 Repeat the steps above for each type of server. You must migrate all source and target server aliases.

Migrate Deployment Projects

Important! Deployer can only migrate a project if all source webMethods servers referenced by the project have been upgraded to 9.5 and are running.

- 1 Start the 9.5 source webMethods servers.
- 2 Click **Migrate Projects**.
- 3 In the right-hand pane, in the **Simulate Migration** column, click  row for each project to migrate. Deployer displays a message that indicates whether the source servers that are referenced by the project are running. If the message indicates that any of the referenced source servers are not running, you must start the source servers before you can migrate the project.
- 4 In the **Select** column, select the check boxes next to the projects to migrate, and then click **Migrate Projects**. Deployer displays a new window with a dynamic migration report. You can display the migration report for each project in the **Report** column in the original window. You can display the latest migration report by clicking **View Latest Migration Report**.