



Informatica™

Informatica® B2B Data Transformation  
10.0

# Agent for webMethods

Informatica B2B Data Transformation Agent for webMethods  
10.0  
October 2015

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# Preface

*Data Transformation Agent for webMethods* is written for developers who want to transform structured or unstructured data in the webMethods environment. The book explains how to install, configure, and use the Data Transformation integration features that operate within webMethods.

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# CHAPTER 1

## Integrating Data Transformation with webMethods

This chapter includes the following topics:

- [Integration Overview, 7](#)
- [Installation, 8](#)

### Integration Overview

Data Transformation integrates into webMethods, adding powerful transformation capabilities to webMethods scenarios.

The integration is implemented as a standard webMethods adapter package. You can use and administer the package through the webMethods Integration Platform framework.

This document explains how to install the Data Transformation integration component for webMethods, and it illustrates how to use the integration capabilities in webMethods scenarios.

For more information about webMethods, see the Software AG web site, <http://www.softwareag.com>.

### Data Transformation Services

The integration features described in this document allow you to run Data Transformation services in webMethods. A Data Transformation service has one of the following types:

- **Parser.** Converts any data format to XML.
- **Serializer.** Converts XML to any format.
- **Mapper.** Converts XML to XML.
- **Transformer.** Modifies the data in any format.
- **Streamer.** Splits large inputs into portions for processing by the other transformation types.

For example, you can use a parser service in a webMethods scenario to transform binary or text inputs to XML. The inputs can contain structured, semi-structured, or unstructured data.

Similarly, you can use a serializer service in a webMethods scenario to transform XML to other data formats. By combining a parser and a serializer, you can use Data Transformation to transform any data format to any other data format, via XML.

For more information about creating and deploying services, see the *Data Transformation Getting Started Guide* and the *Data Transformation User Guide*.

# Installation

The Data Transformation integration component, which operates within webMethods, is called the Data Transformation Agent for webMethods. This chapter explains how to install the Agent on your computer.

## System Requirements

You can install the Data Transformation Agent for webMethods on a Windows 32-bit or Solaris 64-bit platform that runs webMethods 8. Before you proceed, install the webMethods software on the platform.

For more information about the Data Transformation system requirements, see the *Data Transformation Administrator Guide*.

## Upgrading Data Transformation Versions

If you are upgrading from Data Transformation 3.2 or earlier, you must first uninstall your existing version including the Agent for webMethods. Then install the new version.

## Running In-Process or Out-of-Process

You can configure Data Transformation Engine to run in-process or out-of-process. In-process is the default and can improve performance. Out-of-process can improve stability by isolating the Data Transformation process from the calling application.

If you run in-process, you must configure webMethods and Data Transformation to use the same JRE.

By default, webMethods 8 uses JRE version 1.6. When you install Data Transformation, follow the prompts to use the same instance of JRE 1.6.

For more information about running in-process or out-of-process, see the *Data Transformation Administrator Guide*.

## Installing on Windows

To install the Agent for webMethods on a Microsoft Windows platform:

1. Confirm that webMethods is already installed on the computer.
2. If the webMethods server is currently running, stop it.
3. Execute the Data Transformation setup file and follow the on-screen instructions.  
For more information, see the *Data Transformation Administrator Guide*.
4. On the Java Path Selection page, if you plan to run in-process, select the JRE used with webMethods. Do not use the default JRE supplied with Data Transformation.  
If you plan to run out-of-process, you can use either the default JRE or the webMethods JRE. For more information, see ["Running In-Process or Out-of-Process" on page 8](#).
5. Add the Data Transformation path to the `java.library.path` file in the `<SoftwareAG>\profiles\IS_default\configuration\wrapper.conf` directory with the following line:  
`wrapper.java.library.path.4=<DTInstallation>\bin`, where `<DTInstallation>` is the Data Transformation installation path.
6. Copy the file `CM_JavaApi.jar` from the directory `<DTInstallation>\api\lib` to the directory `<WebM_HOME>\IntegrationServer\lib\jars`.



7. Copy the file `CDE_webmethods.zip` from the Data Transformation installation directory to the `inbound` directory of the webMethods Integration Server.

The location of the `inbound` directory is typically:

```
webMethods/IntegrationServer/replicate/inbound
```

In some webMethods versions, the directory names have an appended version number.

You might need superuser privileges to perform this operation. If required, log in with a different user name for this purpose.

8. Add the Data Transformation package. For more information, see ["Adding Package to webMethods" on page 10](#).

## Uninstalling on Windows

To uninstall:

1. Open Control Panel > Add and Remove Programs.
2. Click the option to Change/Remove the Data Transformation software.
3. At the prompt, click the option to remove the Agent for webMethods.
4. Open the webMethods Web Administration tool and delete the Data Transformation package.

## Installing on UNIX

To install the Agent for webMethods on a UNIX-type platform:

1. Log on under the same user name as when you installed webMethods.
2. If the webMethods server is currently running, stop it.
3. Execute the Data Transformation setup file and follow the on-screen instructions.  
For more information, see the *Data Transformation Administrator Guide*.
4. On the Java Path Selection page, if you plan to run in-process, select the JRE used with webMethods. Do not use the default JRE supplied with Data Transformation.  
If you plan to run out-of-process, you can use either the default JRE or the webMethods JRE. For more information, see ["Running In-Process or Out-of-Process" on page 8](#).
5. Configure the system to load the required environment variables when you log in.

- If you use the `sh`, `ksh`, or `bash` shell, insert the following line in the `.profile` file.

```
. /<DTInstallation>/setEnv.sh
```

- If you use the `csh` or `tcsh` shell, insert the following line in the `.login` file.

```
source /<DTInstallation>/setEnv.csh
```

For more information about post-setup steps and alternative ways to load the environment variables, see the *Data Transformation Administrator Guide*.

6. Add the Data Transformation path to the `java.library.path` file in the `<SoftwareAG>/profiles/IS_default/configuration/wrapper.conf` directory with the following line:  
`wrapper.java.library.path.4=<DTInstallation>/bin`, where `<DTInstallation>` is the Data Transformation installation path.
7. Copy the file `CM_JavaApi.jar` from the directory `<DTInstallation>/api/lib` to the directory `<WebM_HOME>/IntegrationServer/lib/jars`.
8. Copy the file `CDE_webmethods.zip` from the Data Transformation installation directory to the `inbound` directory of the webMethods Integration Server.

The location of the inbound directory is typically:

```
webMethods/IntegrationServer/replicate/inbound
```

In some webMethods versions, the directory names have an appended version number.

You might need superuser privileges to perform this operation. If required, log in with a different user name for this purpose.

9. Log off and log in to ensure that your configuration changes take effect.
10. Continue by adding the Data Transformation package. For more information, see [“Adding Package to webMethods” on page 10](#).

## Uninstalling on UNIX

To uninstall:

1. Uninstall Data Transformation. For more information, see the Data Transformation Administrator Guide.
2. Open the webMethods Web Administration tool and delete the Data Transformation package.

## Adding Package to webMethods

To complete the setup on either Windows or UNIX, add the Data Transformation package to webMethods.

To add the package:

1. Start the webMethods server.
2. In your browser, log on to the webMethods Web Administration tool. If you are connecting on the local computer, the default URL is:

```
http://localhost:5555/
```

If you are connecting from a remote location, substitute the address of the webMethods host.

3. In the left pane, under Packages, click Management. In the right pane, click Install Inbound Releases.
4. In the Release File Name option, select the agent file name, `CDE_webmethods.zip`, from the list.
5. Click the Install Release option.

This installs the package in the webMethods `packages` folder, typically `webMethods\IntegrationServer\packages`. A message appears when the installation is complete.

## CHAPTER 2

# Using Data Transformation in webMethods

This chapter includes the following topics:

- [Steps for Running Transformations in webMethods, 11](#)
- [Configuring Transformations, 11](#)
- [Running the Agent, 12](#)
- [Sample Scenarios, 14](#)

## Steps for Running Transformations in webMethods

The Data Transformation Agent enables you to run transformation services in webMethods. To do this, perform the following steps:

1. In Informatica Developer, configure one or more transformations and deploy them as services.
2. In webMethods, use a Java service to activate the Data Transformation service.

The following sections provide instructions for each step.

## Configuring Transformations

To configure and deploy a transformation:

1. In Informatica Developer, configure a project containing the transformation that you want to run.
2. Use the Project > Deploy command to deploy the transformation as a service. This allows Data Transformation Engine to run the transformation.

For more information, see the *Data Transformation Getting Started Guide* and the *Data Transformation User Guide*.

# Running the Agent

The webMethods Developer displays the Informatica Agent. Under the agent, you can find Java services that activate Data Transformation Engine, sample scenarios, and other objects.

**Note:** The older `Itemfield` version of the agent is no longer supported.

## Agent Configuration

To configure and use the Data Transformation Agent for webMethods:

1. Configure a webMethods flow-service scenario that activates `CDEService` or `CDEStreamerService`.  
`CDEService` is a webMethods Java service that interfaces with Data Transformation Engine. It can run transformations of the parser, serializer, mapper, and transformer types.  
If you plan to run a streamer transformation, use `CDEStreamerService` instead of `CDEService`.
2. Configure `CDEService` or `CDEStreamerService` with the required inputs and outputs, described below.
3. Start the webMethods scenario.

`CDEService` or `CDEStreamerService` submits the input to Data Transformation Engine, which runs the transformation.

**Note:** Do not try to activate `CDEService` or `CDEStreamerService` directly from the Browse Services page of the webMethods Web Administration tool. They are designed to be activated from a flow-service scenario.

## CDEService Inputs and Outputs

The following table describes the `CDEService` inputs:

Input	Explanation
Input	A buffer containing the input data that the Data Transformation service should process.
Service Name	The name of a deployed Data Transformation service that <code>CDEService</code> should activate. The service can run a parser, serializer, mapper, or transformer.
Service Parameters	Optionally, the values of service parameters that the system should pass to the transformation. The service parameters are the initial values of variables defined in the transformation.
AdditionalInputPorts	A list of additional input buffers. For each input port that is defined in the transformation, define an <code>InputPort</code> having the same name and containing the input data.

The following table describes the `CDEService` outputs:

Output	Explanation
Output	The output buffer.
Success	True if the transformation succeeds, false if it fails.

Output	Explanation
Status	A status record.
AdditionalOutputPorts	A list of additional output buffers. For each output port that is defined in the transformation, define an OutputPort having the same name.

## CDEStreamerService Inputs and Outputs

The following table describes the CDEStreamerService inputs:

Input	Explanation
Service Name	The name of a deployed Data Transformation service that CDEStreamerService should activate. The service must run a streamer.
Input	The input data that the Data Transformation service should process.
Input As Buffer	If true, Input and AdditionalInputPorts are buffers containing the input data. If false, Input and AdditionalInputPorts are the paths of input files.
Chunk Size	A chunk size in bytes. This is a buffer size that the system passes to the streamer. The chunk size affects the performance but has no effect on the output.
Service Parameters	Optionally, the values of service parameters that the system should pass to the transformation. The service parameters are the initial values of variables defined in the transformation.
Output Path	A path where the streamer should store its output.
Use Unique Names in Output	If true, the system appends unique GUID identifiers to the output file names.
Use Single File Output	If false, the Output Path is a directory path. The streamer writes each output segment to an independent file in this directory. If true, Output Path is a file path. The streamer combines the output segments and writes them to the file.
AdditionalInputPorts	A list of additional inputs. For each input port that is defined in the transformation, define an InputPort having the same name.

The following table describes the CDEStreamerService outputs:

Output	Explanation
OutputFileList	A list of the output files.
SuccessFlag	True if the transformation succeeds, false if it fails.
Status	A status record.
AdditionalOutputPorts	A list of additional output files. For each output port that is defined in the transformation, define an OutputPort having the same name.

# Sample Scenarios

The Data Transformation Agent is supplied with sample webMethods scenarios that activate transformations. We encourage you to examine how the sample scenarios are constructed. You can build your own scenarios by following the same configuration approach.

**Note:** The procedure for running the scenarios is illustrated for the `testCME` sample. To run other scenarios, substitute the appropriate paths and names. The instructions are for running in the webMethods Web Administration tool. To run in the Web Developer or in other ways, see the webMethods documentation.

## testCME Scenario

The `testCME` scenario activates the `CDEService` Java service. `CDEService` is configured to run a parser transformation called `testCME`. The `testCME` transformation is defined in the following project:

```
webMethods\IntegrationServer\packages\Informatica\resources\samples\testCME
```

In some webMethods versions, the upper-level directory names contain a webMethods version number.

The parser processes an HL7 message having a structure such as the following:

```
MSH|^~\&|LAB||CDB|||ORU^R01|K172|P
PID|||PATID1234^5%M11||Jones^William||19610613|M
OBR|||80004^Electrolytes
OBX|1|ST|84295^Na||150|mmol/l|136-148|Above high normal|||Final results
OBX|2|ST|84132^K+||4.5|mmol/l|3.5-5|Normal|||Final results
OBX|3|ST|82435^Cl||102|mmol/l|94-105|Normal|||Final results
OBX|4|ST|82374^CO2||27|mmol/l|24-31|Normal|||Final results
```

The output of the parser is a message saying `Test Succeeded`.

To run the scenario:

1. Deploy the sample parser as a Data Transformation service, as follows:
  - Import and open the `testCME` project in Informatica Developer.
  - On the Informatica Developer menu, click `Project > Deploy`.
2. In a web browser, log on to the webMethods Web Administration tool. If you connect from the local computer, the URL of the tool is `http://localhost:5555/`.
3. In the left pane, under `Packages`, click `Management`. In the right pane, click the `Informatica` package.
4. Click the link to `Browse Services` in Informatica.
5. Click the scenario `pub.samples:testCME`.
6. Click the link to `Test testCME`.
7. Click the `Test (Without Inputs)` option.

The scenario runs the Data Transformation service on the input file `hl7-obs.txt`, which is stored in the `testCME` project. The Web Administrator displays the output of the transformation

## testCMDP Scenario

This scenario uses `CDEService` to run a parser transformation called `testCMDP`.

Before you run the scenario, deploy the following project as a service:

```
webMethods\IntegrationServer\packages\Informatica\resources\samples\testCMDP
```

The service uses a document processor to convert an Excel spreadsheet to XML, and it then parses the XML. The output is a listing of the spreadsheet data.

## testStreamer\_File Scenario

This scenario uses `CDEStreamerService` to pass file data to a streamer transformation.

Before you run the scenario, deploy the following project as a service:

```
webMethods\IntegrationServer\packages\Informatica\resources\samples\STDF
```

The scenario prompts you for input and output file paths. You can use the following input file:

```
webMethods\IntegrationServer\packages\Informatica\resources\samples\testCME  
\CM_sampleflatfilepositional.txt
```

After you enter the paths, click Test (With Inputs) to continue.

## testStreamer\_Buffer Scenario

This scenario is the same as `testStreamer_File`, but it passes the input data as a buffer rather than a file.

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