

Event Replicator for Adabas

Event Replicator Target Adapter Administration

Version 4.0.0

September 2025

This document applies to Event Replicator Target Adapter Administration Version 4.0.0 and 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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Preface

This document describes how to install and use the Event Replicator Target Adapter Administration to configure your Event Replicator Target Adapter installation.



Notes:

1. The Event Replicator Target Adapter must be stopped and restarted every time an Event Replicator Target Adapter definition is saved or deleted using the Administration tool. For this reason, we recommend that you shut down the Event Replicator Target Adapter prior to making changes to the definitions and restart the Event Replicator Target Adapter when all definition changes are complete. For information about stopping and starting the Event Replicator Target Adapter, read *Shutting Down the Event Replicator Target Adapter and Starting the Event Replicator Target Adapter*, in the *Event Replicator Target Adapter User Guide*.
2. The Event Replicator Target Adapter Administration Tool and the Data Mapping Tool are not supported in AIX, HP-UX, Solaris or zLinux environments because the Eclipse RCP port is not available in those environments. You will need to have a Windows or Linux installation of the Administration Tool and Mapping Tool to use them. The Administration Tool can remotely manage Event Replicator Target Adapter installations on those platforms where the Eclipse RCP is not supported.

This document covers the following topics:

<i>Event Replicator Target Adapter Administration Overview</i>	Provides an overview of Event Replicator Target Adapter Administration.
<i>Release Notes</i>	Describes the updates to Event Replicator Target Adapter Administration since the last release.
<i>Installing Event Replicator Target Adapter Administration</i>	Describes the prerequisites, system requirements, and steps to install and uninstall Event Replicator Target Adapter Administration.
<i>About the Event Replicator Target Adapter Administration Tool</i>	Describes the Administration tool interface as well as how to start and stop it.
<i>Activating Your Event Replicator Target Adapter or Adabas Analytics Collector MF License</i>	Describes the activation of your Event Replicator Target Adapter Administration license.
<i>Maintaining the Event Replicator Target Adapter Engine Configuration</i>	Describes the Event Replicator Target Adapter engine configuration parameters and how to maintain them.
<i>Maintaining the Event Replicator Target Adapter Persistent Store (WebDAV) Configuration</i>	Describes the Event Replicator Target Adapter persistent store (WebDAV) configuration parameters and how to maintain them.

<i>Configuring Target Definitions for Event Replicator Target Adapter</i>	Describes how to configure the Event Replicator Target Adapter target definitions for your target RDBMS databases and web services.
<i>Configuring Target Definitions for Adabas Analytics Collector MF</i>	Describes how to configure the target definitions for Adabas Analytics Collector MF.
<i>Specifying Target Database Processing Option Definitions</i>	Describes how to specify options for Event Replicator Target Adapter processing with target RDBMS databases.
<i>Specifying Filter Definitions</i>	Describes how Event Replicator Target Adapter filter processing works and how to maintain filter definitions for filter processing.
<i>Configuring Source Definitions for Event Replicator Target Adapter</i>	Describes how to configure the Event Replicator Target Adapter source definitions for the IBM EntireX or WebSphere MQ messaging systems you are using.
<i>Configuring Source Definitions for Adabas Analytics Collector MF</i>	Describes how to configure the source definitions for Adabas Analytics Collector MF.
<i>Verifying Your Source Definition Connections</i>	Explains how to verify the IBM EntireX or WebSphere MQ source definition connections you have configured.
<i>Reviewing and Dynamically Altering Definitions</i>	Describes how you can use the Administration tool to review and dynamically alter the configuration, source, target, filter, and target database processing definitions you have specified.
<i>Reviewing Log Files</i>	Describes how to review Event Replicator Target Adapter log files from the Administration tool.
<i>Reviewing Event Replicator Target Adapter Statistics</i>	Describes how to review Event Replicator Target Adapter processing statistics from the Administration tool.

1

About this Documentation

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Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
Monospace font	Identifies service names and locations in the format <i>folder.subfolder.service</i> , APIs, Java classes, methods, properties.
<i>Italic</i>	Identifies: Variables for which you must supply values specific to your own situation or environment. New terms the first time they occur in the text. References to other documentation sources.
Monospace font	Identifies: Text you must type in. Messages displayed by the system. Program code.
{ }	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 (...).

Online Information and Support

Product Documentation

You can find the product documentation on our documentation website at <https://documentation.softwareag.com>.

Product Training

You can find helpful product training material on our Learning Portal at <https://learn.software-ag.com>.

Tech Community

You can collaborate with Software GmbH experts on our Tech Community website at <https://tech-community.softwareag.com>. From here you can, for example:

- Browse through our vast knowledge base.
- Ask questions and find answers in our discussion forums.
- Get the latest Software GmbH news and announcements.
- Explore our communities.
- Go to our public GitHub and Docker repositories at <https://github.com/softwareag> and <https://hub.docker.com/publishers/softwareag> and discover additional Software GmbH resources.

Product Support

Support for Software GmbH products is provided to licensed customers via our Empower Portal at <https://empower.softwareag.com>. Many services on this portal require that you have an account. If you do not yet have one, you can request it at <https://empower.softwareag.com/register>. Once you have an account, you can, for example:

- Download products, updates and fixes.
- Search the Knowledge Center for technical information and tips.
- Subscribe to early warnings and critical alerts.
- Open and update support incidents.
- Add product feature requests.

Data Protection

Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR). Where applicable, appropriate steps are documented in the respective administration documentation.

I Event Replicator Target Adapter Administration Overview

2 Event Replicator Target Adapter Administration Overview

Use the Event Replicator Target Adapter Administration tool to configure your Event Replicator Target Adapter or Adabas Analytics Collector MF installations. This can be multiple installations for different versions and/or different machines.

For each target adapter configured for administration, you can use it to:

- Set up Event Replicator Target Adapter processing preferences. These preferences identify, among other things, the location of the *context.xml* file used to store the Event Replicator Target Adapter definitions, the locations of the Event Replicator Target Adapter startup and shutdown commands, and the location of the Event Replicator Target Adapter log files.



Caution: We do not recommend that you alter Event Replicator Target Adapter definitions in the *context.xml* file using a text editor or any editor other than the Event Replicator Target Adapter Administration tool. If you do, errors may result.

- Configure the target definitions for your installation. Target definitions define the RDBMS data base or other types of targets to which the Event Replicator Target Adapter should direct the replicated data. For more information, read [Configuring Target Definitions for Event Replicator Target Adapter](#), elsewhere in this guide.
- Set up any target processing option definitions needed for Event Replicator Target Adapter processing. Target database processing option definitions specify options regarding how the Event Replicator Target Adapter processes the data submitted to the target. For more information, read [Specifying Target Database Processing Options](#), elsewhere in this guide.
- Configure the source definitions for your installation. Source definitions define the messaging system to be used (IBM EntireX or WebSphere MQ) and associated target definition to which the Event Replicator Target Adapter should direct the replicated data acquired from the source definition. For more information, read [Configuring Source Definitions for Event Replicator Target Adapter](#), elsewhere in this guide.
- Configure any filter definitions for Event Replicator Target Adapter processing. For more information, read [Specifying Filter Definitions](#), elsewhere in this guide.

For each Adabas Analytics Collector MF configured for administration, you can use it to:

- Set up Adabas Analytics Collector MF processing preferences. These preferences identify, among other things, the location of the *EAPConfig.xml* file used to store the Adabas Analytics Collector MF definitions.



Caution: We do not recommend that you alter Adabas Analytics Collector MF definitions in the *EAPConfig.xml* file using a text editor or any editor other than the Event Replicator Target Adapter Administration tool. If you do, errors may result.

- Configure the target definitions for your installation. Target definitions define the Elasticsearch targets to which the Adabas Analytics Collector MF should direct the data. For more information, read [Configuring Target Definitions for Adabas Analytics Collector MF](#), elsewhere in this guide.
- Configure the source definitions for your installation. Source definitions define the messaging system to be used (IBM EntireX or WebSphere MQ) or the Event Replicator Target Adapter JMX bean and associated target definition to which the Adabas Analytics Collector MF should direct the data acquired from the source definition. For more information, read [Configuring Source Definitions for Adabas Analytics Collector MF](#), elsewhere in this guide.

II Release Notes

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Release Notes

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This chapter provides release notes for the current version of Event Replicator Target Adapter Administration. It is organized as follows:

Enhancements

This version of Event Replicator Target Adapter Administration supports administration of Event Replicator Target Adapter Version 3.10, as well as earlier versions of that product. A single running instance of Event Replicator Target Adapter Administration has the ability to manage multiple versions and instances, both local and remote, in a single administration console. The product also can be used to configure Adabas Analytics Collector MF Version 3.10 and below.

Fixes to Event Replicator Target Adapter Administration are delivered using the Software AG Update Manager. For more details, see the section *[Installing Event Replicator Target Adapter Administration](#)* in this documentation.

End of Maintenance

For information on how long a product is supported by Software GmbH, access Software GmbH's Empower web site at <https://empower.softwareag.com>.

Log into Empower. Once you have logged in, you can expand **Products** in the left menu of the web page and select **Product Version Availability** to access the Product Version Availability application. This application allows you to review support information for specific products and releases.

Documentation and Other Online Information

The following online resources are available for you to obtain up-to-date information about Software GmbH technology products:

- [Documentation Website](#)
- [TECHcommunity](#)

- [Empower Product Support Website](#)

Documentation Website

You can find documentation for all Software GmbH products on the Software AG Documentation website at <https://documentation.softwareag.com>. This site requires Empower credentials. If you do not have an Empower user ID and password yet, you will find instructions for registering on this site (free for customers with maintenance contracts) or you can also use the TECHcommunity website to access the latest documentation.

TECHcommunity

You can find documentation and other technical information on the TECHcommunity website at <http://techcommunity.softwareag.com>. You can:

- Access product documentation, if you have TECHcommunity credentials. If you do not, you will need to register and specify "Documentation" as an area of interest. If you already have TECHcommunity credentials, you can adjust your areas of interest on the TECHcommunity website by editing your TECHcommunity profile. To access documentation in the TECHcommunity once you are logged in, select **Documentation** from the **Communities** menu.
- Access articles, demos, and tutorials.
- Use the online discussion forums, moderated by Software GmbH professionals, to ask questions, discuss best practices, and learn how other customers are using Software GmbH technology.
- Link to external websites that discuss open standards and web technology.

Empower Product Support Website

You can find product information on the Empower Product Support website at <https://empower.softwareag.com>. This site requires Empower credentials. If you do not have an Empower user ID and password yet, you will find instructions for registering on this site (free for customers with maintenance contracts).

To submit feature/enhancement requests, get information about product availability, and download products and certified samples, select **Products & Documentation** from the menu once you are logged in.

To get information about fixes and to read early warnings, technical papers, and knowledge base articles, select **Knowledge Center** from the menu once you are logged in.

III

Installing Event Replicator Target Adapter Administration

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Installing Event Replicator Target Adapter Administration

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This chapter describes the installation and uninstallation of Event Replicator Target Adapter Administration. It covers the following topics:

Installation Overview

This product is installed using the Software AG Installer, which you can download from the Empower website at <https://empower.softwareag.com/>.

The Software AG Installer offers typical development installations of Software GmbH products. When you select a typical development installation, the installer automatically groups and selects the Software GmbH products and components that make up that installation.

- The Event Replicator Target Adapter Administration is part of the Event Replicator Target Adapter product suite. It is installed separately from Event Replicator Target Adapter Data Mapping Tool and the Event Replicator Target Adapter.
- The Event Replicator Target Adapter Data Mapping Tool is part of the Event Replicator Target Adapter product suite. It is installed separately from Event Replicator Target Adapter Administration and the Event Replicator Target Adapter.
- The Event Replicator Target Adapter installation is part of the Event Replicator Target Adapter product suite. It is installed separately from the Event Replicator Target Adapter Administration and the Event Replicator Target Adapter Data Mapping Tool. Included in the installation of the Event Replicator Target Adapter is the installation of an internal component called the Software AG ERTA Administration Service. This service enables running the Event Replicator Target Adapter as a system service and also allows communication with a remote administration console (for example on platforms, such as HP and zLinux, where the Event Replicator Target Adapter Administration tool cannot be installed)

The **Infrastructure** entry in the Software AG Installer includes the installation of Java. Java should be installed so it can be accessed by all products in the Event Replicator Target Adapter product suite and by the Software AG Installer.

You cannot ungroup installations that have been paired or grouped. However, you can select multiple installation configurations for installation at the same time. To configure your installation of these products and create effective production environments, work with your system administrators and Software AG Global Consulting Services.

System Requirements

This section describes the system requirements of Event Replicator Target Adapter Administration.

- [Supported Operating System Platforms](#)
- [Supported Hardware](#)
- [Supported Browsers](#)
- [Supplied Third-Party Software](#)
- [Space Requirements](#)
- [Memory Requirements](#)
- [Windows Requirements](#)
- [Firewall Requirements](#)



Note: We recommend that you read the *install.txt* file in the CD root directory for last-minute information regarding the installation of the Event Replicator Target Adapter. We also recommend that you read the Event Replicator Target Adapter *ReadMe.txt* files for last-minute information regarding its operation. The Event Replicator Target Adapter *readme.txt* file can be found in the CD root directory.

Supported Operating System Platforms

Software GmbH generally provides support for the operating system platform versions supported by their respective manufacturers; when an operating system platform provider stops supporting a version of an operating system, Software GmbH will stop supporting that version.

For information regarding Software GmbH product compatibility with IBM platforms and any IBM requirements for Software GmbH products, please review the [Product Compatibility for IBM Platforms](#) web page.

Before attempting to install this product, ensure that your host operating system is at the minimum required level. For information on the operating system platform versions supported by Software GmbH products, complete the following steps.

1. Access Software GmbH's Empower web site at <https://empower.softwareag.com>.
2. Log in to Empower. Once you have logged in, expand **Products & Documentation** in the left menu of the web page and select **Product Version Availability** to access the Product Version Availability screen.
3. Use the fields on the top of this screen to filter its results for your Software GmbH product. When you click the **Search** button, the supported Software GmbH products that meet the filter criteria are listed in the table below the filter criteria.

This list provides the following information for the supported operating systems:

- the general availability (GA) date of the product;

- the date the operating system platform is scheduled for retirement (OS Retirement);
- the end-of-maintenance (EOM) date for the product; and
- the end-of-sustained-support (EOSS) date for the product.



Note: Although it may be technically possible to run a new version of your Software GmbH product on an older operating system, Software GmbH cannot continue to support operating system versions that are no longer supported by the system's provider. If you have questions about support, or if you plan to install this product on a release, version, or type of operating system other than one listed on the Product Version Availability screen described above, consult technical support to determine whether support is possible, and under what circumstances.

This release of the Event Replicator Target Adapter Administration tool is supported in Windows and Linux environments that also support Eclipse.

The Event Replicator Target Adapter Administration and the Event Replicator Target Adapter Data Mapping Tool are not supported in AIX, HP-UX, Solaris or zLinux environments because the Eclipse RCP port is not available in those environments. You will need to have a Windows or Linux installation of the Administration Tool and Mapping Tool to use them. The Administration Tool can remotely manage Event Replicator Target Adapter installations on those platforms where the Eclipse RCP is not supported.

Supported Hardware

For general information regarding Software GmbH product compatibility with other platforms and their requirements for Software GmbH products, visit Software AG's [Hardware Supported](#) web page.

Supported Browsers

For information on supported browsers, see the *webMethods System Requirements* documentation on the Empower web site.

Supplied Third-Party Software

Event Replicator Target Adapter Administration uses Eclipse RCP Mars (version 4.5.2) and Eclipse RCP DeltaPack (version 4.3.2). The Software AG Installer manages the installation of this third-party software.



Note: If a third-party vendor drops support for a version of one of their products or even for an entire product, Software AG automatically drops support for that version or product as well.

Space Requirements

A minimum of 100 MB disk space (assuming all components are selected for installation) is required to run all of the following products: Event Replicator Target Adapter Administration, Event Replicator Target Adapter Data Mapping Tool, and the Event Replicator Target Adapter.



Note: Additional space is needed to store log files. The amount of space needed depends entirely on the level of logging you select.

Memory Requirements

At least 2GB system memory is required to run this software.

1024 MB or more random access memory (RAM) may be needed, depending on the size of your transactions.

Windows Requirements

In Windows environments, be sure to install Microsoft Visual Studio 2008 Redistributable Package.

Firewall Requirements

If you attempt to install and use this software in a system with a firewall in place, be sure that your system administrator has set up the firewall so that the component applications can access the ports they need. For more information about port usage, read the *Port Number Reference* found elsewhere in this documentation.

Prerequisite Products

This section describes prerequisite products for Event Replicator Target Adapter Administration.

- [JRE Requirements](#)
- [X-Windows Graphical Environment Requirement](#)



Note: If a third-party vendor drops support for a version of one of their products or even for an entire product, Software AG automatically drops support for that version or product as well.

JRE Requirements

The Software AG Installer installs the appropriate Java Runtime Environment (JRE) along with its infrastructure. This JRE does not interfere with any other JRE that might already exist on the same host machine on which Event Replicator Target Adapter Administration is installed.

X-Windows Graphical Environment Requirement

UNIX and LINUX installations require an X-Windows graphical environment to run the Administration Tool.

Before You Begin

Before you begin installing this product, ensure that the following prerequisites have been met:

1. Software AG strongly recommends that you create an installation image of your existing Software products and store the image on your internal network. You should create an image for each operating system on which you plan to run the installation (for example, 32-bit, 64-bit, or both). This will help you reduce WAN traffic and speed up installation and will ensure consistency across installations over time, since the Software AG Installer provides only the latest release of each product.
2. Close (stop) all open applications, especially those applications interacting with or depending on your Adabas databases. This includes Natural, Adabas Manager, the Adabas DBA Workbench, and prior releases of any other Adabas products. To be on the safe side, also shut down all Software AG services.



Important: For some Software GmbH products, the Software AG Uninstaller will not be able to remove key files that are locked by the operating system if the associated Software GmbH products are not shut down.

3. Disable any antivirus software.
4. Ensure the target computer is connected to the network.
5. If this product requires a license key file, verify the license key file is copied somewhere in your environment. Products requiring license key files will not run without valid license keys. For more information, read *The License Key*, elsewhere in this section.
6. Verify your environment supports the system requirements for this product, as described in *System Requirements*, elsewhere in this section.

Installation Steps

Event Replicator Target Adapter Administration is installed using the Software AG Installer. It does not require a license key.

You can download the Software AG Installer from the Software AG Empower website at <https://empower.softwareag.com/>.

This installation documentation provides a brief description on how to install the Event Replicator Target Adapter Administration directly on the target machine using the installer wizard. For detailed information on the installer wizard, read *Using the Software AG Installer*.



Note: Read *Using the Software AG Installer* also if you want to use console mode, or if you want to install using an installation script or installation image.

➤ To install Event Replicator Target Adapter Administration, complete the following steps:

- 1 Start the Software AG Installer as described in *Using the Software AG Installer*.
- 2 When the first page of the Software AG Installer wizard (the Welcome panel) appears, choose the **Next** button repeatedly, specifying all required information on the displayed panels, until the panel containing the product selection tree appears.

All Adabas-related products (including Adabas Directory Server) can be selected for installation within the **Adabas Family** product selection tree.

In addition to the **Adabas Family** product selection tree, two other trees, **Event-Driven Architecture** and **Infrastructure** (which includes the System Management Hub installation) are available for installation. The **Infrastructure** tree must be selected for all Software AG products; it provides the necessary Java runtime environment for the Software AG Installer as well as Event Replicator Target Adapter Administration.

- 3 To install Event Replicator Target Adapter Administration, select (check) the Event Replicator Target Adapter Administration entry from the **Adabas Family** product selection tree.
- 4 On the License panel, read the license agreement and select the check box to agree to the terms of the license agreement and then click **Next** to continue. If you do not accept the license agreement, the installation will stop.
- 5 On the last panel, review the items you have selected for installation. If the list is correct, choose the **Next** button to start the installation process.

After Event Replicator Target Adapter Administration has been installed, you will need to manually start it. For more information, read [Starting the Administration Tool](#) under the section entitled [About the Event Replicator Target Adapter Administration Tool](#), elsewhere in this guide.

Uninstallation Steps

You uninstall this product using the Software AG Uninstaller. For information on how to use the uninstaller, read the *Using the Software AG Installer* guide.

Installing Fixes Using Software AG Update Manager


Event Replicator Target Adapter Administration is updated using the Software AG Update Manager (SUM).


You can download the Software AG Update Manager from the Software AG Empower website at <https://empower.softwareag.com/>.

This SUM installation documentation on Empower provides a brief description on how to update Software GmbH products directly on the target machine using the Update Manager wizard. The SUM documentation also includes instructions on how to apply updates in console mode or using scripts.

➤ **To update Event Replicator Target Adapter Administration, complete the following steps:**

- 1 Download and install Software AG Update Manager for your platform from Empower.
- 2 Shut down any running instances of the product. Updates cannot successfully apply if the application is active.
- 3 From a console prompt in the SUM `/bin` directory, enter `UpdateManagerGUI.bat` (`UpdateManagerGUI.sh` on UNIX/Linux).
- 4 On the opening page of the SUM tool, select **Install Fixes from Empower**, enter your SAG product directory root location and provide your Empower User ID and password. Click **Next**.
- 5 Expand through the **Adabas Family** product selection tree to find the entry for this product.

 **Tip:** If the product is not shown in the tree, there is either no update available or the product is not installed in the location you specified.
- 6 Select (check) the **Event Replicator Target Adapter Administration** entry in the product selection tree. Click **Next**.

 **Tip:** You can select more than one product to update before proceeding.

- 7 The next screen presents a summary of products that are about to be updated. If any of them require manual pre-installation steps, they will be highlighted in red and you will be directed to read the update readme file for that product before proceeding.

Complete any pre-installation steps outlined in the readme file and check the box next to **Pre-installation steps have been completed**. Click **Next**.



Note: If any pre-installation steps are required, the **Next** button will be unavailable until you confirm these steps have been completed.

- 8 The tool will apply updates to all selected products and present you with a final screen confirming updates have been applied. Click **Close** to exit SUM or **Home** to return to the tool's starting panel.

Uninstalling Fixes Using Software AG Update Manager

» To remove an installed update, complete the following steps:

- 1 Shut down any running instances of the product.
- 2 Start Software AG Update Manager.
- 3 On the opening page, select **Uninstall Fixes** from the selection panel. Click **Next**.
- 4 If any product selected for uninstall requires manual steps, you will be directed to review the update readme and confirm you have performed any pre-uninstallation steps. Click **Next**.
- 5 The fix(es) you selected for uninstall will be removed and the product(s) returned to their previous state. Click **Close** to exit SUM or **Home** to return to the tool's starting panel.

IV

Using Event Replicator Target Adapter Administration

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Using Event Replicator Target Adapter Administration

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This chapter describes how to use the Event Replicator Target Adapter Administration. It covers the following topics:

About the Event Replicator Target Adapter Administration Tool

This section describes how to start and stop the Event Replicator Target Adapter Administration tool as well as the major features of the Event Replicator Target Adapter Administration tool interface.

- [Supported Platforms](#)
- [Starting the Administration Tool](#)
- [Shutting Down the Administration Tool](#)
- [The Main Window](#)
- [Accessing the Preferences Area](#)
- [Setting Configuration File and Preferences](#)
- [Tree View](#)
- [Menus](#)
- [Toolbar](#)
- [Getting Help](#)



Note: The Event Replicator Target Adapter must be stopped and restarted every time an Event Replicator Target Adapter definition is saved or deleted using the Administration tool. For this reason, we recommend that you shut down the Event Replicator Target Adapter prior to making changes to the definitions and restart the Event Replicator Target Adapter when all definition changes are complete. For information about stopping and starting the Event Replicator Target Adapter, read *Shutting Down the Event Replicator Target Adapter* and *Starting the Event Replicator Target Adapter*, in the *Event Replicator Target Adapter User Guide*.

Supported Platforms

Refer to the section [Supported Operating System Platforms](#) in *Installing Event Replicator Target Adapter Administration* for details.

Starting the Administration Tool

The Administration tool runs in both Windows and UNIX environments.

➤ To start the Administration tool in Windows using the Windows Start menu, complete the following steps:

- 1 From the Windows Start menu, select **All Programs**.
- 2 Select **<installation-directory>**, where *<installation-directory>* is the name of the directory in which you installed Event Replicator Target Adapter Administration. The default installation directory is **Software AG**.

- 3 Select **Administration**.
- 4 Select **Event Replicator Target Adapter for Mainframe $v.r$** , where $v.r$ represent the version and release number of the Event Replicator Target Adapter.
- 5 Select **Start Administration**.

The Administration tool starts up.



Important: Before you can use the Administration tool, you must set preferences that identify where the Event Replicator Target Adapter definitions should be stored, the locations of the startup and shutdown commands for the Event Replicator Target Adapter, and the location of the Event Replicator Target Adapter log files. For more information, read [Setting Configuration File and Target Adapter Preferences](#), elsewhere in this section.

➤ **To start the Administration tool in Windows using the *administration.bat* file, complete the following steps:**

- 1 Navigate to the following directory: `<installation-dir>/EventReplicatorTargetAdapterAdministration/bin`, where `<installation-dir>` is the name of the directory in which the Event Replicator Target Adapter Administration program files were installed.
- 2 Run the *administration.bat* file.

The Administration tool starts up.



Important: Before you can use the Administration tool, you must set preferences that identify where the Event Replicator Target Adapter definitions should be stored, the locations of the startup and shutdown commands for the Event Replicator Target Adapter, and the location of the Event Replicator Target Adapter log files. For more information, read [Setting Configuration File and Target Adapter Preferences](#), elsewhere in this section.

➤ **To start the Administration tool in UNIX, complete the following steps:**

- 1 Navigate to the following directory: `<installation-dir>\bin`, where `<installation-dir>` is the name of the directory in which the Event Replicator Target Adapter Administration program files were installed.
- 2 Source file *sagenv.new* to establish your environment variables by entering:

```
./sagenv.new
```

- 3 Run the *administration.sh* file.

The Administration tool starts up.



Important: Before you can use the Administration tool, you must set preferences that identify where the Event Replicator Target Adapter definitions should be stored, the locations of the startup and shutdown commands for the Event Replicator Target Adapter, and the location of the Event Replicator Target Adapter log files. For more information, read [Setting Configuration File and Target Adapter Preferences](#), elsewhere in this section.

Shutting Down the Administration Tool

This section describes how to shut down the Administration tool in Windows environments. At this time, the Administration tool only runs in Windows environments.

- [Shutting Down the Administration Tool Window](#)
- [Shutting Down the Administration Tool from the Administration Tool](#)

Shutting Down the Administration Tool Window

The simplest way of stopping the Administration tool is to shut down (kill) the window in which it runs.

Shutting Down the Administration Tool from the Administration Tool

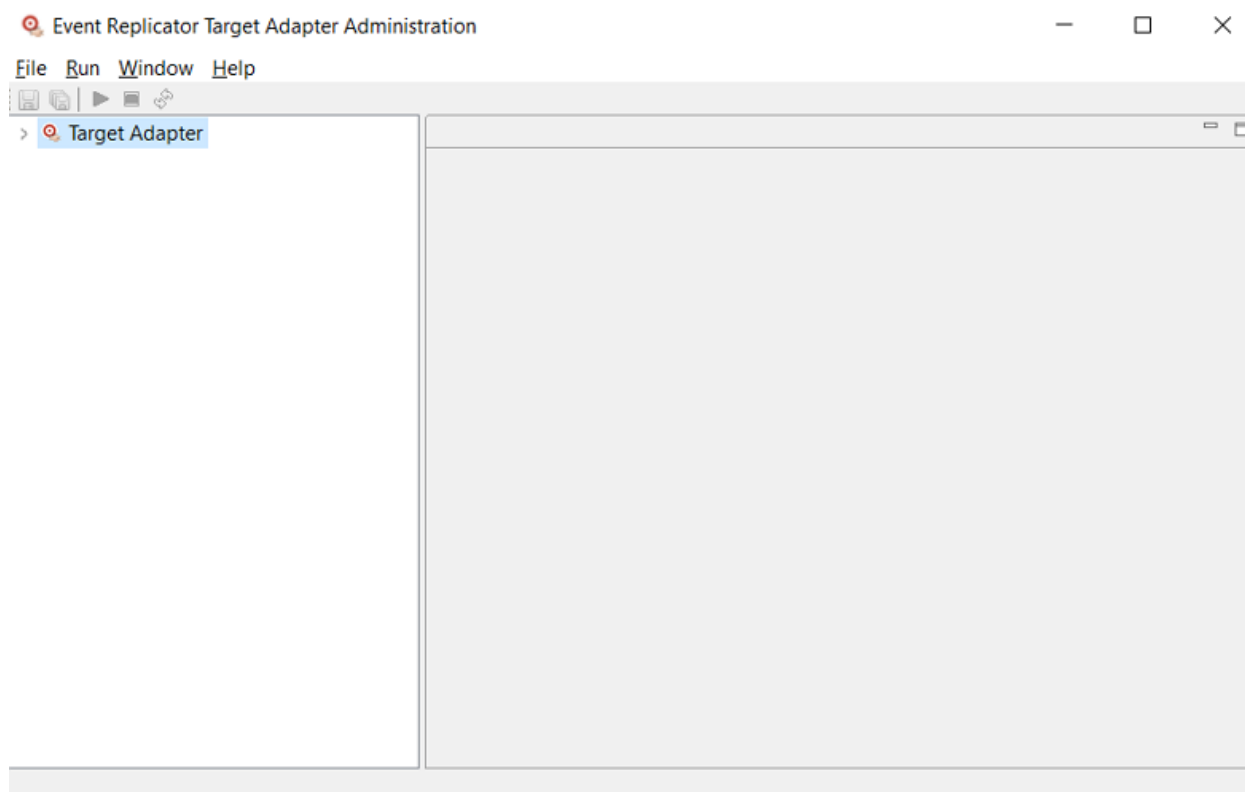
➤ To shut down Event Replicator Target Adapter from the Administration tool:

- Select the **Exit** command from the **File** menu.

The Administration Tool shuts down.

The Main Window

When you first start up the Administration tool, the main window displays.



Accessing the Preferences Area

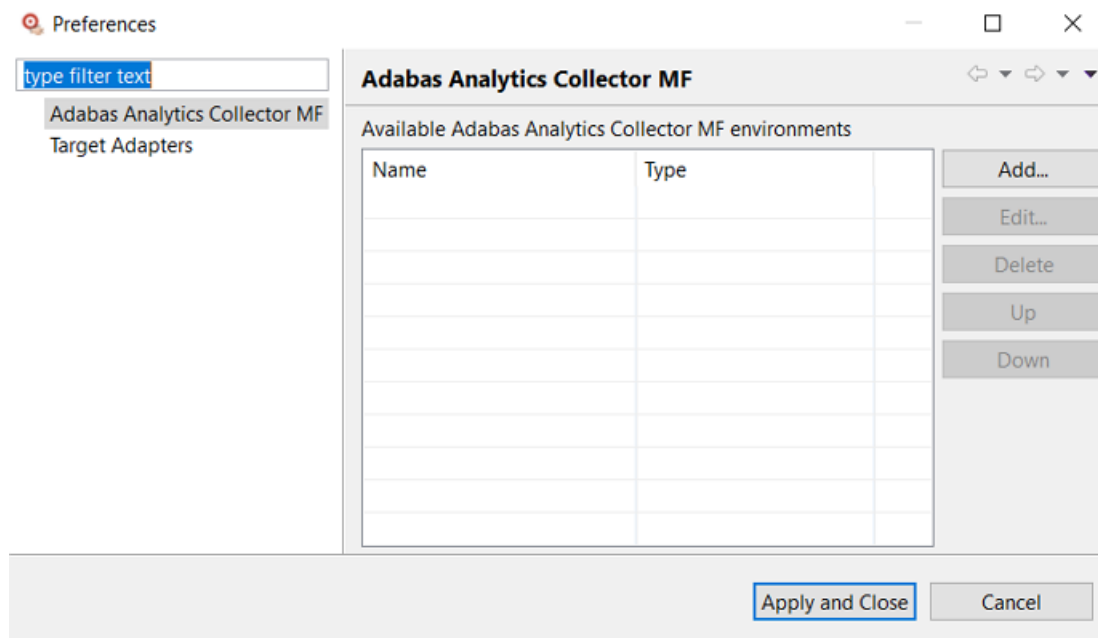
➤ To access the preferences area of the Administration tool:

- 1 Start the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool main window appears.

- 2 Select the **Preferences** option from the **Window** menu.

The **Preferences** dialog appears. By default, the configuration file preferences are shown:



- 3 Modify the Target Adapter environments with the commands described in the following table, if necessary:

Command	Description
Add	Add an existing Target Adapter environment to the Administration control.
Edit	Edit the Target Adapter properties.
Delete	Delete the Target Adapter environment from the Administration control. Note: This does not delete the Target Adapter installation.
Tip: The order of the Target Adapter environments in the Preferences Tree View is the same as in this list. With the following commands you can control the order.	
Up	Move Target Adapter one position up in the Preferences Tree View.
Down	Move Target Adapter one position down in the Preferences Tree View.

- 4 Modify the Adabas Analytics Collector MF environments with the commands described in the following table, if necessary:

Command	Description
Add	Add an existing Adabas Analytics Collector MF environment to the Administration control.
Edit	Edit the Adabas Analytics Collector MF properties.
Delete	Delete the Adabas Analytics Collector MF environment from the Administration control. Note: This does not delete the Adabas Analytics Collector MF installation.
Tip: The order of the Adabas Analytics Collector MF environments in the Preferences Tree View is the same as in this list. With the following commands you can control the order.	
Up	Move Adabas Analytics Collector MF one position up in the Preferences Tree View.
Down	Move Adabas Analytics Collector MF one position down in the Preferences Tree View.

Setting Configuration File and Preferences

The configuration file preferences identify, among other things, the location of the configuration files used by the Event Replicator Target Adapter and Adabas Analytics Collector MF you will set up using the Administration tool. The Target Adapter preferences identify the locations of the Event Replicator Target Adapter startup and shutdown commands as well as the location of its log files; the Adabas Analytics Collector MF preferences identify the location of its configuration file.



Note: Event Replicator Target Adapter Administration cannot start and stop the collector, only set its configuration.

If the configuration file preferences are not supplied, you cannot set the preferences.



Caution: We do not recommend that you alter Event Replicator Target Adapter definitions in the *context.xml* file using a text editor or any editor other than the Event Replicator Target Adapter Administration tool. If you do, errors may result.

➤ To set configuration file and Target Adapter preferences:

- 1 Access the preferences area, as described in [Accessing the Preferences Area](#), elsewhere in this guide.

The **Preferences** dialog appears.

- 2 Select **Target Adapter** on the left side of the **Preferences** dialog.
- 3 Select the Target Adapter environment.

- Click on the **Edit...** button.

The preferences appear on the **Edit Target Adapter** pop-up dialog.

Edit Target Adapter

Edit the Target Adapter environment

Edit the Target Adapter environment by changing the name or the properties

Name:

Remote Target Adapter

☐ Remote

Host:

Software AG ERTA Administration Service

Port:

☐ Automatically Start and Stop Target Adapter

Target Adapter Location

Root Directory:

Log File Directory:

JMX Port:

User Targets

Name

Backup Configuration File

☒ No Backup ☐ Backup

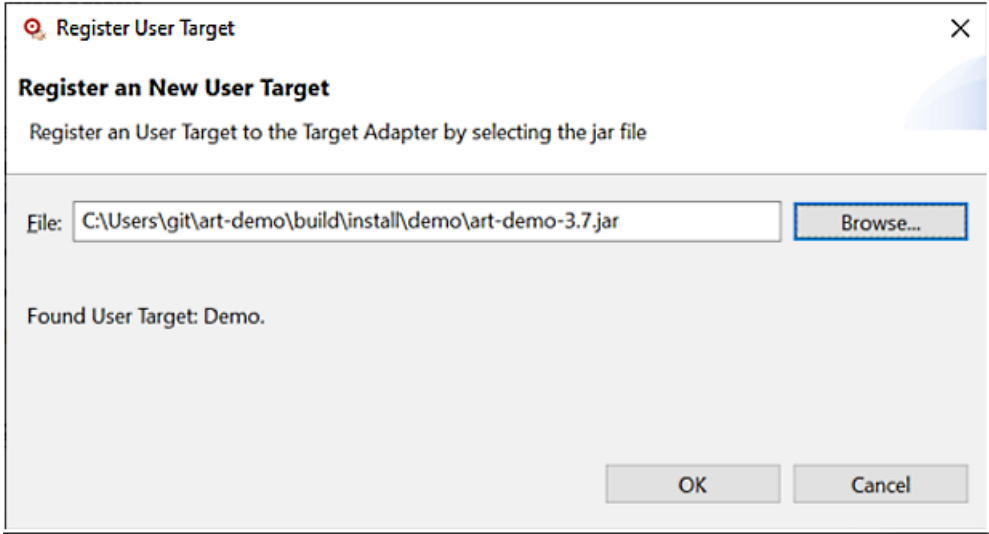
☒ Show Warning Dialog when Configuration changed while Target Adapter is active

☒ Scroll to end of log file when editor is opened or refreshed

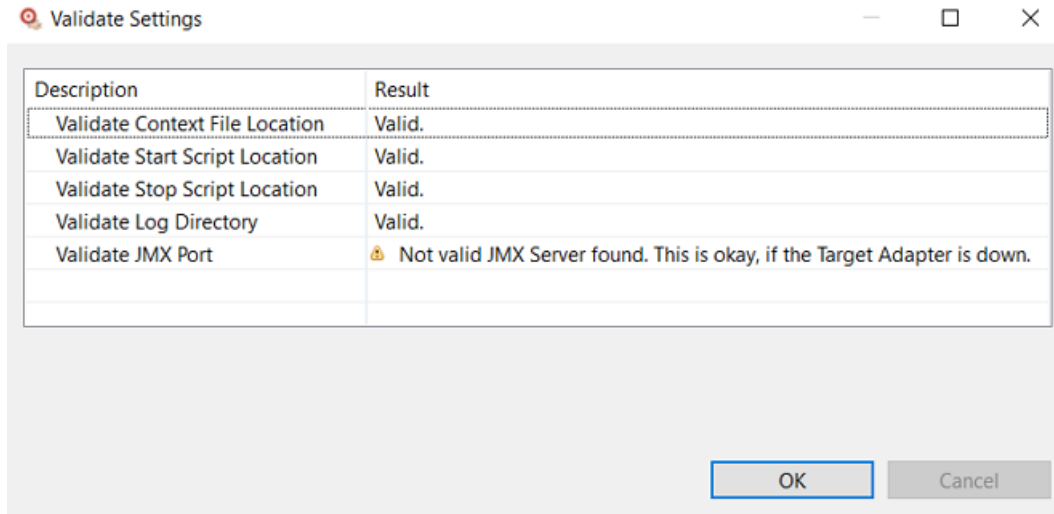
Version:

- Modify the preferences as described in the following table, if necessary:

Preference	Description
Name	Name of the Target Adapter environment that is displayed in the Tree View.
Remote Target Adapter	
Remote	Check this option when the Target Adapter environment is on the remote host, or if on the local machine but in a different installation suite location than the tool.
Host	Name of the remote host.
Update	This command updates the Target Adapter Location according to what is found by the ERTA Administration Service.
ERTA Administration Service	
Port	Specify the port number of the ERTA Administration Service. The default is 3004. Note: When using the Administration tool to administer a remote Event Replicator Target Adapter installation, specify the ERTA Administration Service Port number and the host name (Host field) in the appropriate fields. Clicking on Update will cause Administration to attempt to contact the remote ERTA Administration Service or Daemon to discover details about the installation and fill in the Root Directory and Log File Directory paths with the appropriate information.
Automatically Start and Stop Target Adapter via ERTA Administration Services	Indicate whether or not the Event Replicator Target Adapter should be automatically started and stopped by the ERTA Administration Services. Check this box if you want it to be automatically started; leave this box unchecked if you do not. Note: On Windows systems, if Event Replicator Target Adapter Administration is used to manually start the Target Adapter, it will by default be running in the context of the logged in user and not under the ERTA Administration Service's System user. If started this way, when the user logs out, the Target Adapter will stop. In order for the Target Adapter to truly be running as a service, you must start it by starting or restarting the ERTA Administration Service, which will start the Target Adapter under the System user context. A workaround for this is to configure the local Target Adapter as "Remote". This will cause the ERTA Administration Service to be called first to start the Target Adapter even when started using the Administration tool. Note there will be no local console opened when the Target Adapter is running in this way.
Target Adapter Location	
Root Directory	Specify the fully-qualified path to the root directory of the Target Adapter environment. The initial value in this field is determined using the path of the ERTA Administration Service identified by the Host and ERTA Administration Service Port fields and then applying the default installation location of the log files to that path when the Update button is pressed. Change this path as necessary for your installation.
Log File Directory	The fully-qualified path of the location of the Event Replicator Target Adapter log files. The initial value in this field is determined using the path of the ERTA Administration Service identified by the Host and ERTA Administration Service Port fields and then applying the default installation location of the log files to that path. Change this path as necessary for your installation.
JMX Port	Specify the port number that should be used for communication between the Tomcat server and the Administration tool via JMX. This port number should match the port

Preference	Description
	number you specified for JMX communication during the Event Replicator Target Adapter installation. The default is 4000.
User Targets	<p>This table lists all registered User Targets.</p> <p>With the Register button you can register new User Targets by selecting the jar that implements the User Target interface.</p>  <p>After you register it, the new target is available on the Target Adapter tree view.</p> <p>With the deregister button you can deregister User Targets from the Target Adapter.</p>
Backup Configuration File	Indicate whether or not the Event Replicator Target Adapter configuration file (<i>context.xml</i>) should be backed up whenever changes are made to the Administration tool. Select the Backup radio button to request the backup; select the No Backup radio button to suppress the backup.
Show Warning Dialog when Configuration changed while Target Adapter is up	Indicate whether or not the warning dialog should be displayed when your configuration is changed and the Event Replicator Target Adapter is running.
Scroll to End of Log file when Editor is opened or refreshed	When this check box is checked, the log file will be opened at the end of the log file (showing the latest logged activity) when the Editor is opened or refreshed. When this check box is not checked, the log file will automatically open at the top of the file (showing the earliest logged activity in that log file).
Version	Set the version of the Target Adapter environment.

6 Click **Validate Setting** to validate the Target Adapter settings:



- 7 Click **OK** to apply the updates and close the **Preferences** dialog. No validation is performed; you should validate settings before closing.

Click **Cancel** to close the **Preferences** dialog without update

➤ **To set configuration file and Adabas Analytics Collector MF preferences:**

- 1 Access the preferences area, as described in [Accessing the Preferences Area](#), elsewhere in this guide.

The **Preferences** dialog appears.

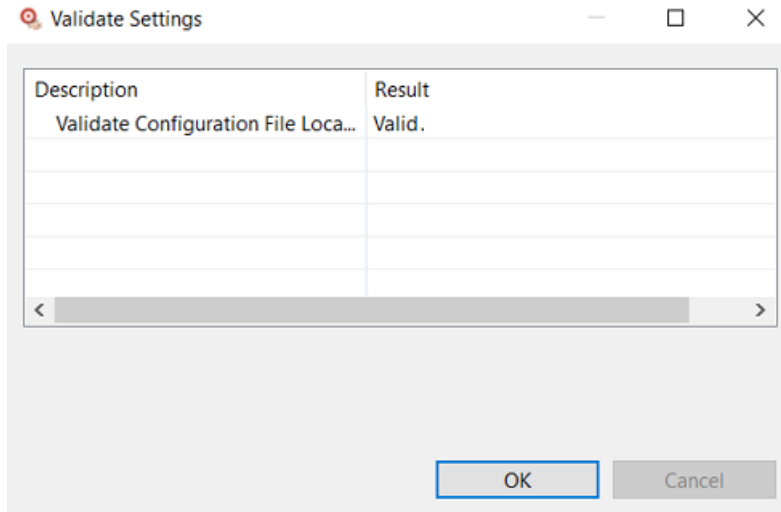
- 2 Click on the **Add...** button.

The preferences appear on the **Add an Adabas Analytics Collector MF** pop-up dialog.

- 3 Modify the preferences as described in the following table, if necessary:

Preference	Description
Name	Name of the Adabas Analytics Collector MF environment that is displayed in the Tree View.
Remote Adabas Analytics Collector MF	
Remote	Check this option when the Adabas Analytics Collector MF environment is on the remote host, or if on the local machine but in a different installation suite location than the tool.
Host	Name of the remote host.
Adabas Administration Service Port	Specify the port number of the ERTA Administration Service. The default is 3004.
Root Directory	Specify the fully-qualified path to the root directory of the Adabas Analytics Collector MF environment. If the Adabas Analytics Collector MF installation is local, you can use the Browse button to find the root. If the installation is remote, Browse is disabled and you have to manually enter the fully qualified path to the product installation root. Change this path as necessary for your installation.

- 4 Click **Validate Setting** to validate the Adabas Analytics Collector MF settings:

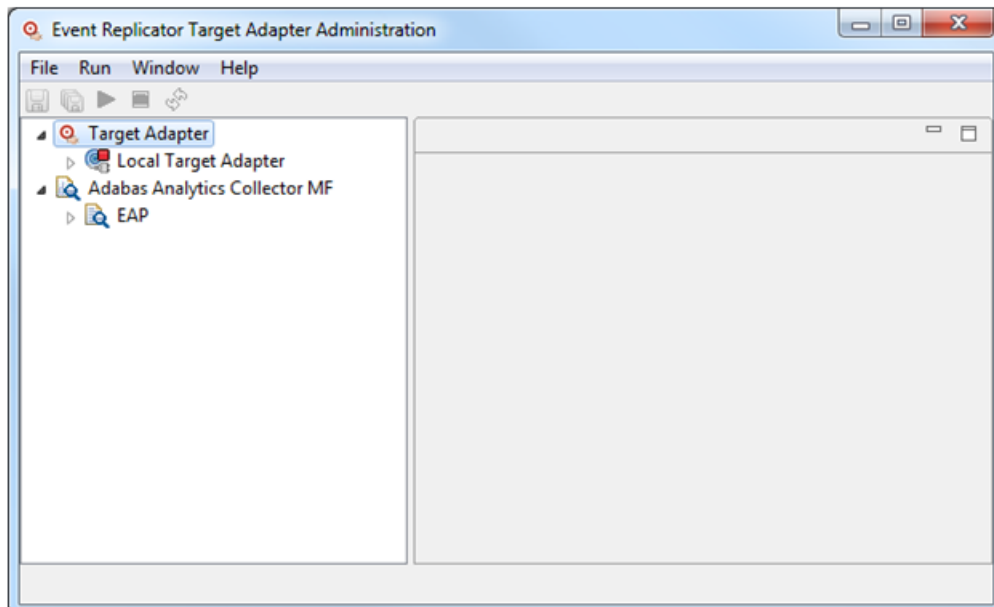


- Click **OK** to apply the updates and close the **Preferences** dialog. No validation is performed; you should validate settings before closing.

Click **Cancel** to close the **Preferences** dialog without update







Tree View

Each Target Adapter and Adabas Analytics Collector MF node appears in the tree view under the corresponding parent node:



The current status of Target Adapter nodes are indicated by an icon.

The icons are described in the following table:

	The Target Adapter is running.
	The Target Adapter is stopped.
	The Target Adapter is coming up.
	The Target Adapter is going down.
	Checking the state of the Target Adapter.
	The Target Adapter has an error. Perform Validate Setting in the Preferences to check for a cause.








Note: The display only shows the running status of Target Adapter instances. It does not show the status of any Adabas Analytics Collector MF instances, only the configuration file settings.

Menus

The Administration tool main window has four menus. The commands on each menu are described in the following table:






Menu	Menu Item (Command)	Description
File	New	<p>The New submenu depends on the selected node.</p> <p>The following is applicable for a Target Adapter Node.</p> <p>Allows you to create a new definition. When you select the New command, a submenu appears from which you can select the type of definition you would like to create:</p> <ul style="list-style-type: none"> ■ Database Target: Select this option to create a new RDBMS database target definition for the Event Replicator Target Adapter. ■ EntireX Communicator Source: Select this option to create a new IBM EntireX source definition for the Event Replicator Target Adapter. ■ Filter: Select this option to create a new filter definition for the Event Replicator Target Adapter ■ JMS Target: Select this option to create a new JMS target definition for the Event Replicator Target Adapter ■ Terracotta Target: Select this option to create a new Terracotta target definition for the Event Replicator Target Adapter. ■ Terracotta Merge Target: Select this option to create a new Terracotta Merge target definition for the Event Replicator Target Adapter. ■ Target Database Option: Select this option to create a option definition for the target databases you have defined to Event Replicator Target Adapter. ■ Web Service Target: Select this option to create a new web service target definition for the Event Replicator Target Adapter.

Menu	Menu Item (Command)	Description
		<ul style="list-style-type: none"> ■ WebSphere MQ Source: Select this option to create a new WebSphere MQ source definition for the Event Replicator Target Adapter. <p>The following is applicable for an Adabas Analytics Collector MF Node.</p> <ul style="list-style-type: none"> ■ Elasticsearch Target: Select this option to create a new Elasticsearch target definition for the Adabas Analytics Collector MF. ■ EntireX Communicator Source: Select this option to create a new IBM EntireX source definition for the Adabas Analytics Collector MF. ■ WebSphere MQ Source: Select this option to create a new WebSphere MQ source definition for the Adabas Analytics Collector MF. ■ Target Adapter Source: Select this option to create a new Target Adapter source definition for the Adabas Analytics Collector MF.
	Close	Allows you to close the definition you have currently selected in the Administration tool. If the definition has not been saved, you will be prompted to save it.
	Close All	Allows you to close all open definitions in the Administration tool. If any definition has not been saved, you are prompted to save them.
	Open File	Allows you to open an existing definition in the Administration tool.
	Save	Saves the definition you have currently selected in the Administration tool. If no name has been specified for a new definition, you are prompted for one. You can also click the  button on the toolbar to do this.
	Save All	Saves all the definitions you currently have open in the Administration tool. If a name has not been specified for one or more definition, you are prompted for them. You can also click the  button on the toolbar to do this.
	Refresh	Refreshes the definitions in the Administration tool, based on the definitions stored in the currently saved configuration file. You can also press the F5 key to refresh the definitions.
	Exit	Shuts down the Administration tool.
Run Only applicable for Target Adapter nodes	Start Target Adapter	Starts the Event Replicator Target Adapter. You can also click the  button on the toolbar to do this.
	Stop Target Adapter	Stops the Event Replicator Target Adapter. You can also click the  button on the toolbar to do this.
	Restart Target Adapter	Stops and restarts the Event Replicator Target Adapter. You can also click the  button on the toolbar to do this.
Window	Preferences	Allows you to set configuration file and target adapter preferences for the Administration tool.

Menu	Menu Item (Command)	Description
Help	Help Contents	Gives you access to the online help system shipped with the Administration tool.
	Search	Allows you to search the online help system shipped with the Administration tool.
	About Event Replicator Target Adapter Administration	Displays information about the Administration tool you have installed.

Toolbar

The Administration tool main window has four buttons on its toolbar. The buttons are described in the following table:

Button	Description
	Saves the definition you have currently selected in the Administration tool. If no name has been specified for a new definition, you are prompted for one. You can also select the Save command on the File menu to do this.
	Saves all the definitions you currently have open in the Administration tool. If a name has not been specified for one or more definition, you are prompted for them. You can also select the Save All command on the File menu to do this.
	Starts the Event Replicator Target Adapter. You can also select the Start Target Adapter command on the Run menu to do this.
	Stops the Event Replicator Target Adapter. You can also select the Stop Target Adapter command on the Run menu to do this.
	Stops and restarts the Event Replicator Target Adapter. You can also select the Restart Target Adapter command on the Run menu to do this.

Getting Help

The Administration tool help through the **Help** menu. In addition, you can get information about the version of the Administration tool you have installed by selecting the **About Target Adapter Administration** option on the **Help** menu.

- [Using Tool Tip Help](#)

- [Getting Help from the Help Menu](#)

Using Tool Tip Help

Tool tip help is available for some items within the Administration tool, including toolbar buttons and menu items.

To use tool tip help, simply allow your mouse cursor to rest momentarily over an item for which you would like help. For example, resting the mouse cursor over a toolbar button will display a tool tip that describes a button.

Getting Help from the Help Menu

Click **Help Contents** option on the **Help** menu to access the online help for the Administration tool. A browser opens to the documentation overview screen, allowing you to browse help by topic or search for a specific help topic by clicking Search.

Activating Your Event Replicator Target Adapter or Adabas Analytics Collector MF License

With Event Replicator Target Adapter, a license key is not required during installation. Further, since licenses are target specific, you may have been provided with more than one license key file, depending on the terms of your license. With the Event Replicator Target Adapter Administration you can manage your license keys.



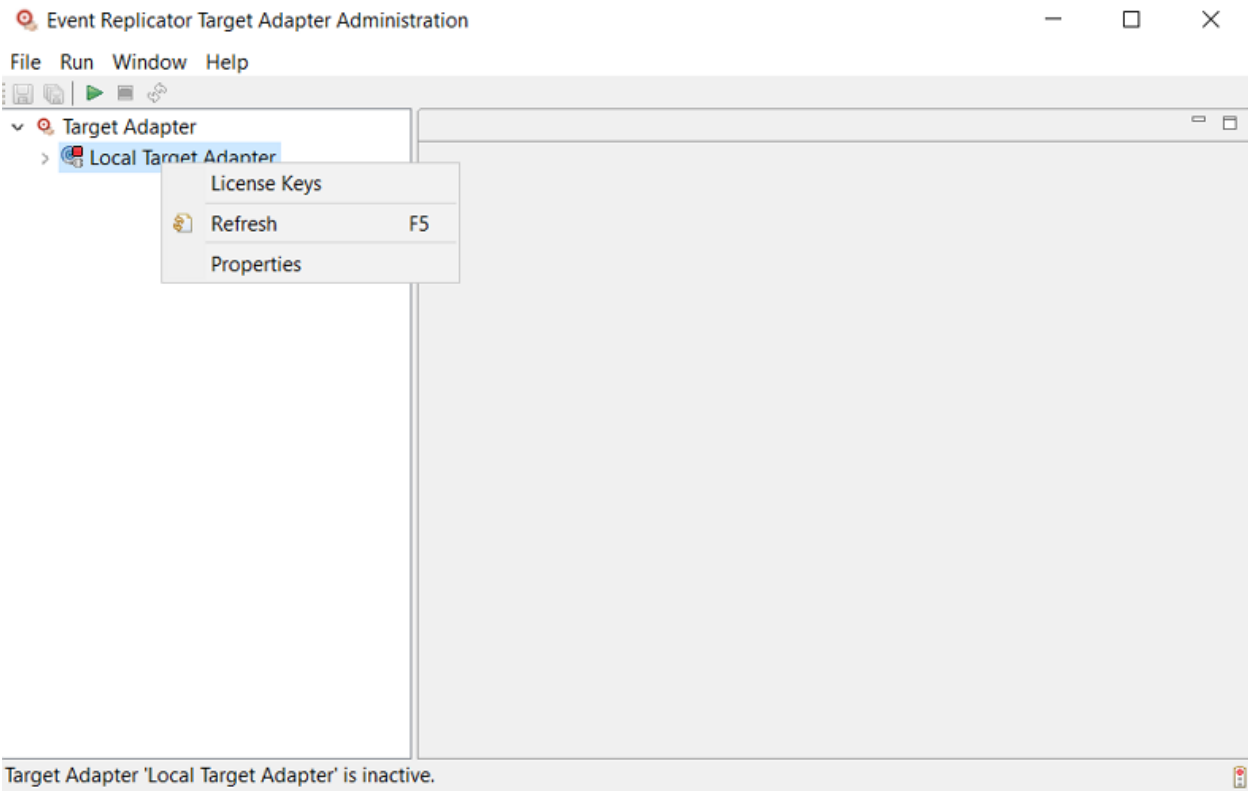
Notes:

1. If you are using Event Replicator Target Adapter Administration to administer a remote instance of Event Replicator Target Adapter, the license you are activating must be on a file system accessible to your Event Replicator Target Adapter Administration installation. The tool will send the license to the remote Event Replicator Target Adapter installation where it will be saved locally on that machine.
2. The same rules and procedures apply for the Adabas Analytics Collector MF.
 - [Accessing the Licensing Configuration Screens](#)
 - [Adding New Licenses](#)
 - [Viewing License Key Details](#)

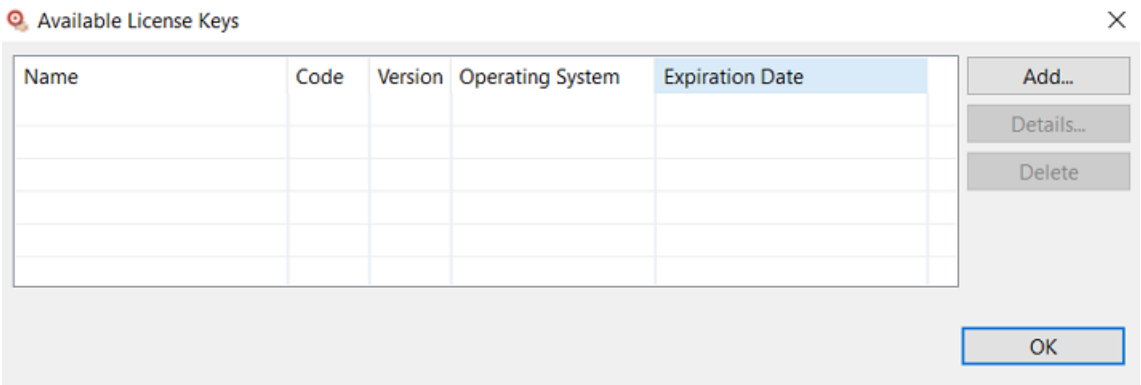
■ Deleting Licenses

Accessing the Licensing Configuration Screens

Right click on the appropriate Target Adapter node and select the item **License Keys**:



The following dialog is displayed:

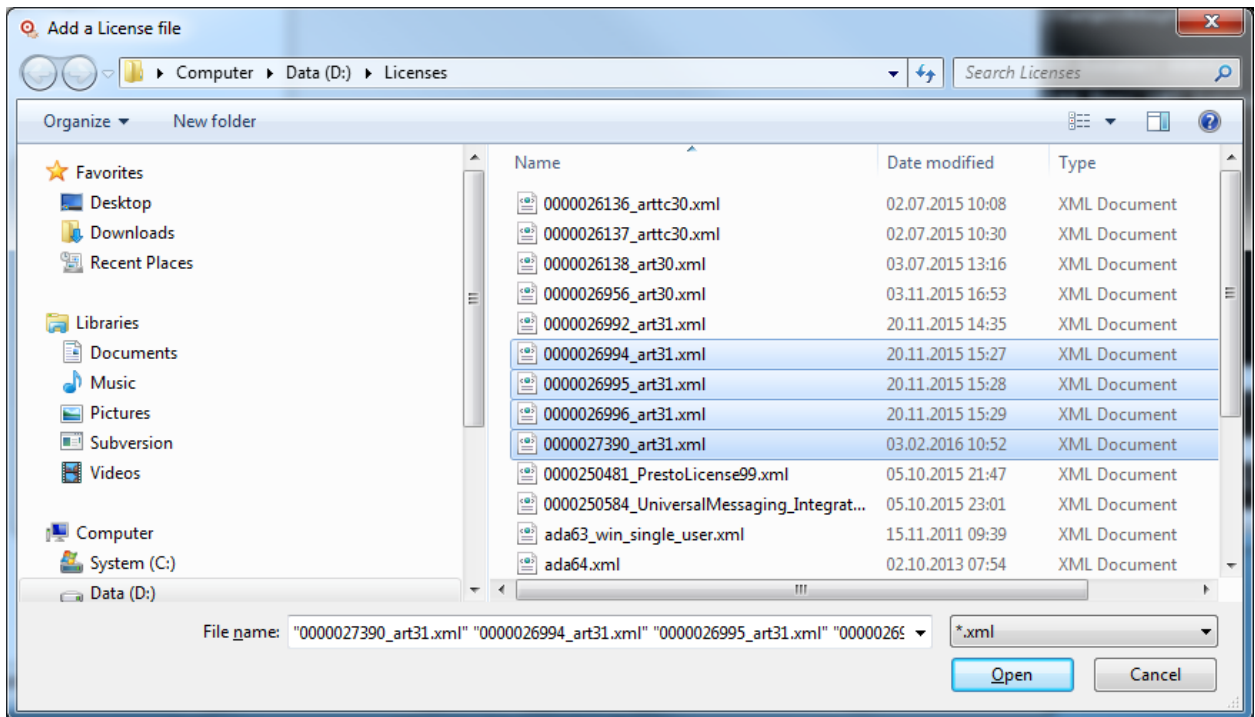


Adding New Licenses

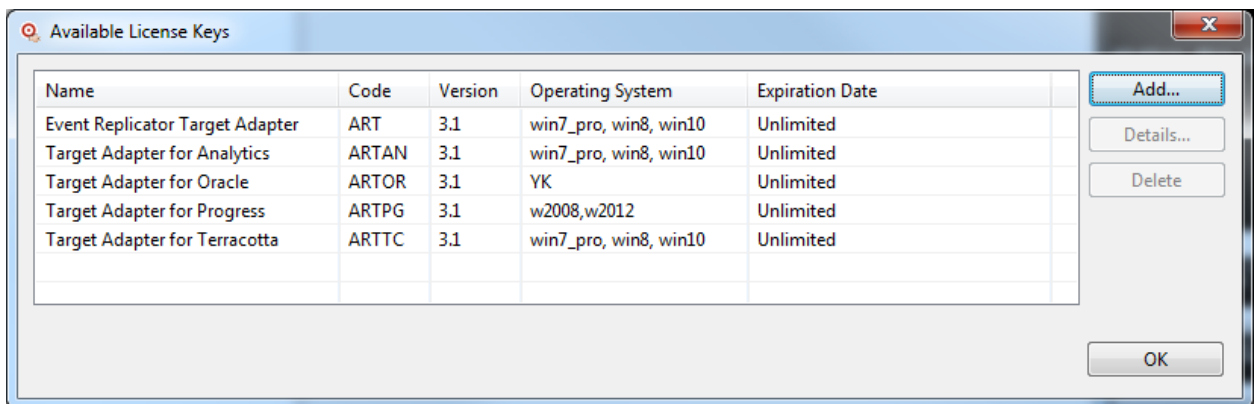
➤ To add new licenses

- 1 Click on the “Add...” button
- 2 Browse to the location where you have stored your license key(s)
- 3 Select the license file(s) you want to add and click “Open”

The following screen appears:



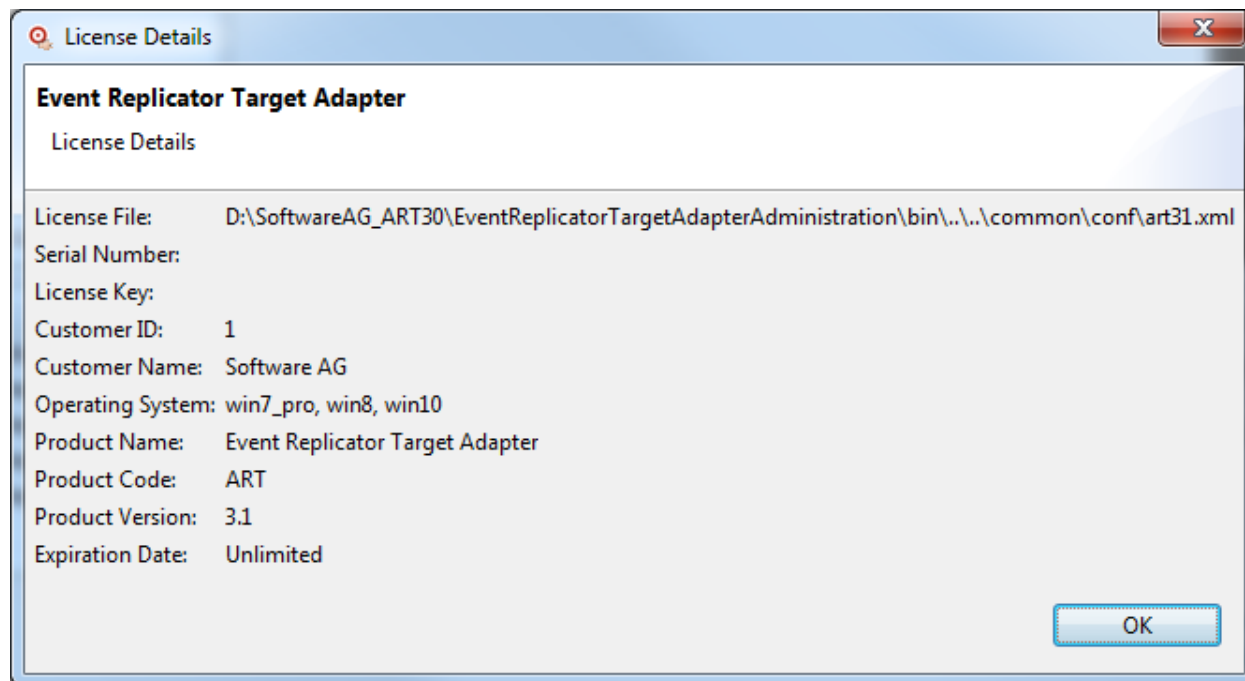
 **Note:** It is possible to select more than one license key file at a time!



Viewing License Key Details

To view the details of an activated license, select the license you want to view and press the “Details...” button:

The following screen appears:

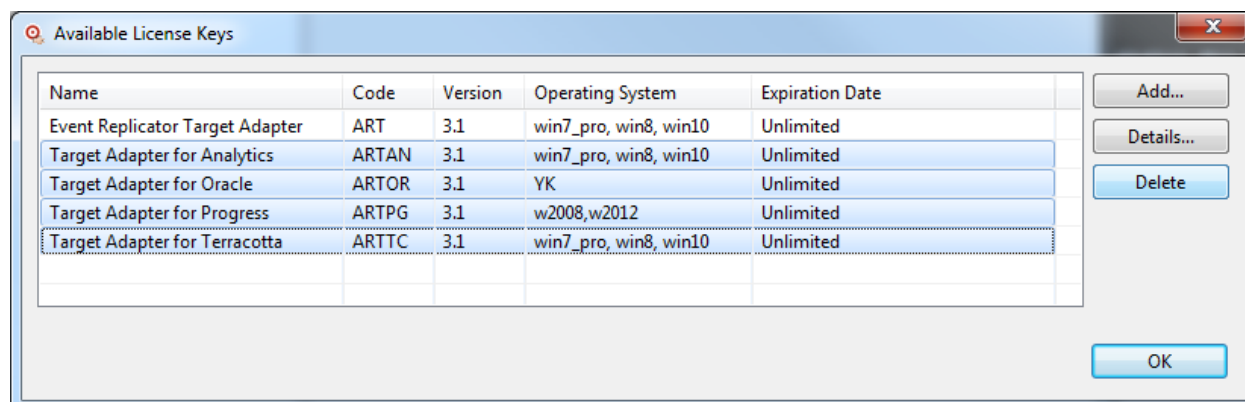


Deleting Licenses

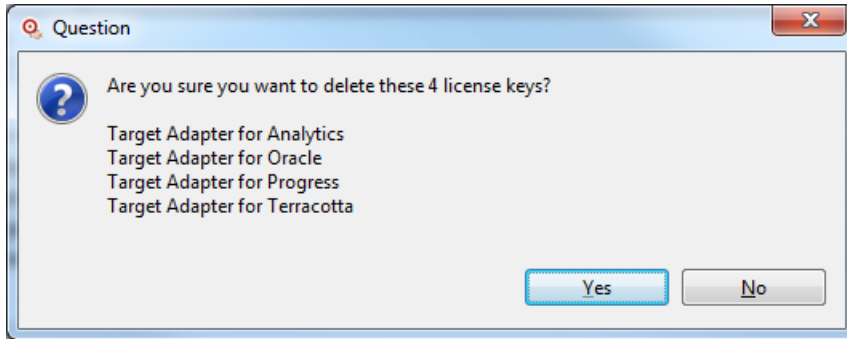
➤ To delete license keys:

- Select the license(s) to be deleted and press the “Delete” button:


The following screen appears:



and confirm your decision to delete your selected license key(s):



Maintaining the Event Replicator Target Adapter Engine Configuration

 **Note:** Changes you make to the engine configuration require that the Event Replicator Target Adapter be restarted. For information about restarting the Event Replicator Target Adapter, read *Restarting the Event Replicator Target Adapter*, in the *Event Replicator Target Adapter User Guide*.

➤ To modify the Event Replicator Target Adapter engine configuration, complete the following steps:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

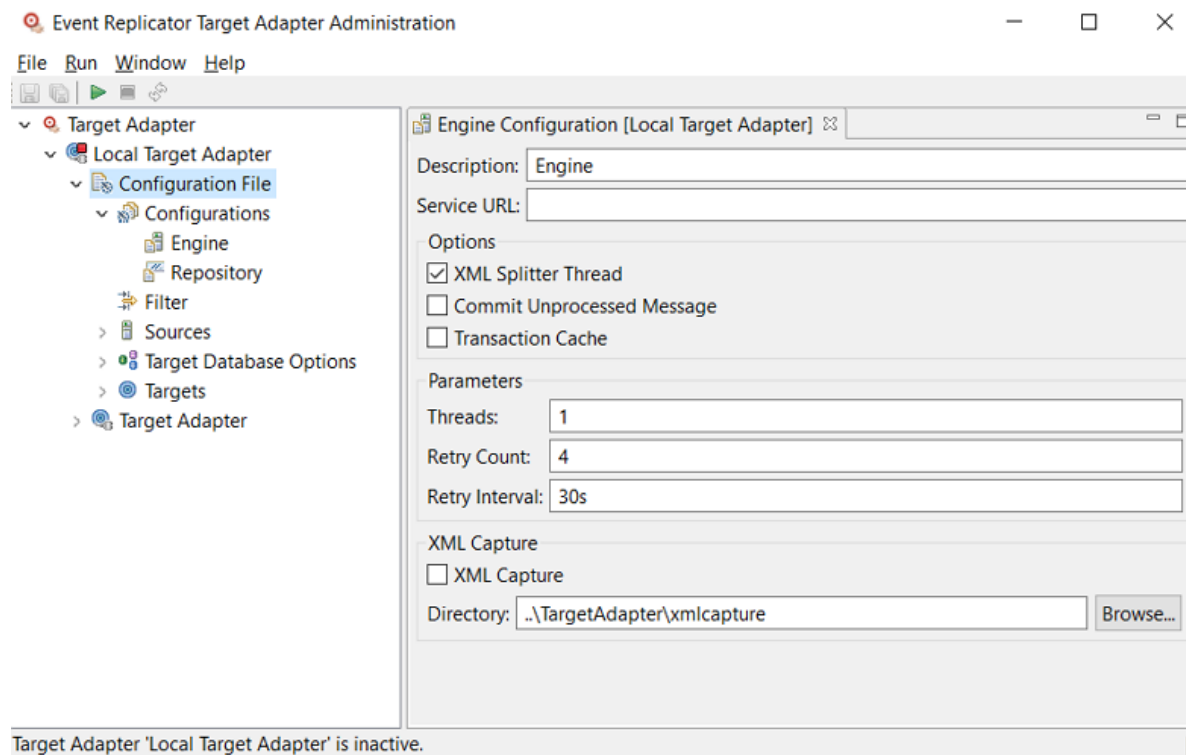
The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then expand the **Configurations** section.

The Event Replicator Target Adapter engine and Repository configurations are listed under **Configurations**.

- 3 Double-click on **Engine**.


The **Engine Configuration** panel appears on the right side of the window, as shown below:



- 4 Verify and update the values on the **Engine Configuration** panel, as described in the following table:

Field Name	Description
Description	Specify a description for the database option definition.
Service URL	<p>Specify the URL that identifies the location of the database processing used by the Event Replicator Target Adapter. The format of this URL is:</p> <pre>http://hostname:port/sqlrep/services/AdabasReptorPort</pre> <p>The <i>hostname</i> and the <i>port</i> number are the only things that should be changed in this URL format. The <i>hostname</i> specified must be fully-qualified (for example "myhost.mycompany.com").</p> <p>Note: If you leave this field blank, the Event Replicator Target Adapter will properly determine and construct the value for this parameter.</p>
XML Splitter Thread	<p>Select this option (check it) to indicate that an additional thread should be used by the engine to improve throughput.</p> <p>When you select this option, the additional thread is used; if you do not select this option, it is not. In general, we recommend that you select this option.</p>
Commit Unprocessed Message	<p>Select this option (check it) to indicate that unprocessed messages should be committed. The default is to leave this option unchecked (unselected). Selecting this option will allow the Event Replicator Target Adapter to continue running if</p>

Field Name	Description
	an invalid message is received but includes the possibility of data inconsistency issues between Adabas and the target RDBMS.
Transaction Cache	<p>Select this option (check it) to activate transaction caching. With this option checked, the Event Replicator Target Adapter will keep a cached record of all transactions processed to the target(s), and subsequently compare all incoming transactions to those already processed, avoiding duplicate transaction. This situation would likely only occur if there has been some communication outage with the Event Replicator Target Adapter's source during the small window in between a transaction being committed at the target but not yet committed (removed) from the source.</p> <p>The use of this option will have a negative impact on performance. Therefore we recommend keeping this unchecked (the default) unless the user is trying to work around a specific error or circumstance.</p>
Threads	Specify how many engine threads should be run. Specifying one engine thread for every replicated data source defined to the Event Replicator Target Adapter can improve performance. However, defining more than one thread for every data source is not necessary.
Retry Count	Specify the number of times that the Event Replicator Target Adapter engine should attempt to communicate with the target if communication errors occur. The default is "3" times.
Retry Interval	Specify the number of seconds the Event Replicator Target Adapter engine should wait between attempts to communicate with the target if communication errors occur. The default is "30" seconds.
XML Capture	<p>Select this option (check it) to indicate that you want the XML documents received from the Event Replicator Server written (in a readable form) to the directory specified by the Directory field.</p> <p>When you select this option, the XML documents are written; if you do not select this option, they are not.</p>
Directory	Specify the fully-qualified path of the directory in which XML documents received from the Event Replicator Server should be written when the XML Capture option is turned on (checked). If available, use the Browse button to locate and select the directory (when the Event Replicator Target Adapter is installed remotely, the Browse button is not available).

- 5 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the engine configuration.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

The configuration is saved in the context file for the Event Replicator Target Adapter.

Maintaining the Event Replicator Target Adapter Repository Configuration

The Event Replicator Target Adapter repository is used as a persistent store to save:

- information sent to it by the Event Replicator Server
- generated XSLT files.

Using the Event Replicator Target Adapter Administration tool, you can maintain the settings for the persistent store.



Note: Changes you make to the repository configuration require that the Event Replicator Target Adapter be restarted. For information about restarting the Event Replicator Target Adapter, read *Restarting the Event Replicator Target Adapter*, in the *Event Replicator Target Adapter User Guide*.

➤ **To modify the repository (persistent store) configuration, complete the following steps:**

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

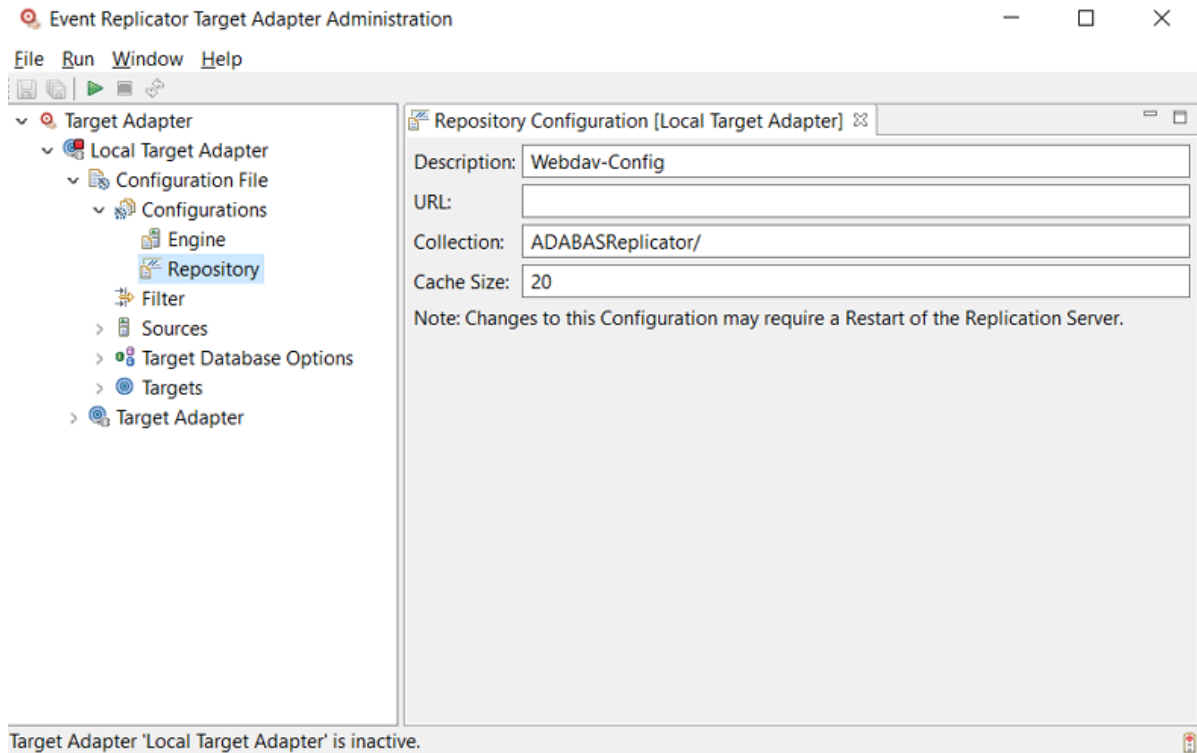
The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then expand the **Configurations** section.

The Event Replicator Target Adapter engine and repository configurations are listed under **Configurations**.


- 3 Double-click on **Repository**.

The **WebDAV Configuration** panel appears on the right side of the window, as shown below:



- 4 Verify and update the values on the **WebDAV Configuration** panel, as described in the following table:

Field Name	Description
Description	Specify a description for the repository configuration. This setting does not affect the execution of the Event Replicator Target Adapter.
URL	<p>Specify the URL that identifies the location of the repository used by the Event Replicator Target Adapter. The format of this field is</p> <pre>http://hostname:port/webdav/</pre> <p>The <i>hostname</i> and the <i>port</i> number are the only things that should be changed in this URL format. The <i>hostname</i> specified must be fully-qualified (for example "myhost.mycompany.com").</p> <p>Note: We recommend that the WebDAV repository reside within the same Tomcat instance as the Event Replicator Target Adapter.</p>
Collection	Specify the repository collection name that should be used for the persistent store.
Cache Size	Specify the number of files that should be internally cached to avoid reading files from the repository. For optimal performance, this value will depend on how many files are being replicated. You may want this value set to a slightly greater value than the actual number of files being replicated, to allow for internal files that might be read. The default is 20.

- 5 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the WebDAV configuration.

Or:

Select the **Save** command on the **File** menu of the Administration tool.



Note: Changes to this configuration may require a restart of the Event Replicator Target Adapter. For more information, read *Restarting the Event Replicator Target Adapter*, in the *Event Replicator Target Adapter User Guide*.

The configuration is saved in the context file for the Event Replicator Target Adapter.

Configuring Target Definitions for Event Replicator Target Adapter

The Event Replicator Target Adapter supports several types of targets to which replicated data can be submitted: JMS, RDBMS databases, Adabas, Terracotta (caches and database server) and web services. Before you can use the Event Replicator Target Adapter, you must set up a *target definition* for every unique target you intend to use for the replicated data the Event Replicator Target Adapter processes. These definitions provide Event Replicator Target Adapter with the information it needs to access your target and to communicate with Event Replicator for Adabas via IBM EntireX or WebSphere MQ.

- [Maintaining RDBMS Database Target Definitions](#)
- [Maintaining JMS Target Definitions](#)
- [Maintaining BigMemory Max and BigMemory Max Merge Target Definitions](#)
- [Maintaining Web Service Target Definitions](#)
- [Maintaining Adabas Target Definitions](#)
- [Maintaining Adabas \(Binary\) Target Definitions](#)
- [Maintaining Terracotta Target Definitions](#)
- [Maintaining Apama Target Definitions](#)
- [Modifying Existing Target Definitions](#)
- [Renaming Existing Target Definitions](#)
- [Deleting Existing Target Definitions](#)



Notes:

1. User authorization to maintain any new RDBMS tables via Event Replicator Target Adapter is inherited from the site's privilege settings for the database. Authorization is managed by the user's RDBMS privileges and not by Event Replicator Target Adapter. Event Replicator Target Adapter will no longer grant RDBMS privileges to the user. Therefore, if you want to use Event Replicator Target Adapter to maintain tables in an RDBMS, verify that your RDBMS authorization privileges are correct for the maintenance you want to perform.

2. You will need to restart the Event Replicator Target Adapter to fully process any additions or changes made to Event Replicator Target Adapter configuration definitions in the Administration tool. For more information, read *Restarting the Event Replicator Target Adapter*, in the *Event Replicator Target Adapter User Guide*.

Maintaining RDBMS Database Target Definitions

You must define target definitions for each unique RDBMS database you intend to use with the Event Replicator Target Adapter prior to using Event Replicator Target Adapter. These definitions will provide Event Replicator Target Adapter with the information it needs to access your RDBMS and to communicate with Event Replicator for Adabas via IBM EntireX or WebSphere MQ.



Note: Do not copy the *context.xml*, *server.xml*, or any configuration file from an older installation and expect it to work for this installation. Errors will result if you try this.

➤ To define a target definition for an RDBMS database:

- 1 Make sure you have completed all of the installation instructions specific to your RDBMS, as described in one of the following sections, in the *Event Replicator Target Adapter Installation Guide*:
 - *Installation Considerations for DB2* in the *Event Replicator Target Adapter Installation Guide*
 - *Installation Considerations for DB2 on z/OS* in the *Event Replicator Target Adapter Installation Guide*
 - *Installation Considerations for Microsoft SQL Server* in the *Event Replicator Target Adapter Installation Guide*
 - *Installation Considerations for MySQL* in the *Event Replicator Target Adapter Installation Guide*
 - *Installation Considerations for Oracle* in the *Event Replicator Target Adapter Installation Guide*
 - *Installation Considerations for PostgreSQL* in the *Event Replicator Target Adapter Installation Guide*
 - *Installation Considerations for Teradata* in the *Event Replicator Target Adapter Installation Guide*
- 2 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 3 On the left side of the Administration tool window, expand the **Configuration File** section and then the **Targets** section.

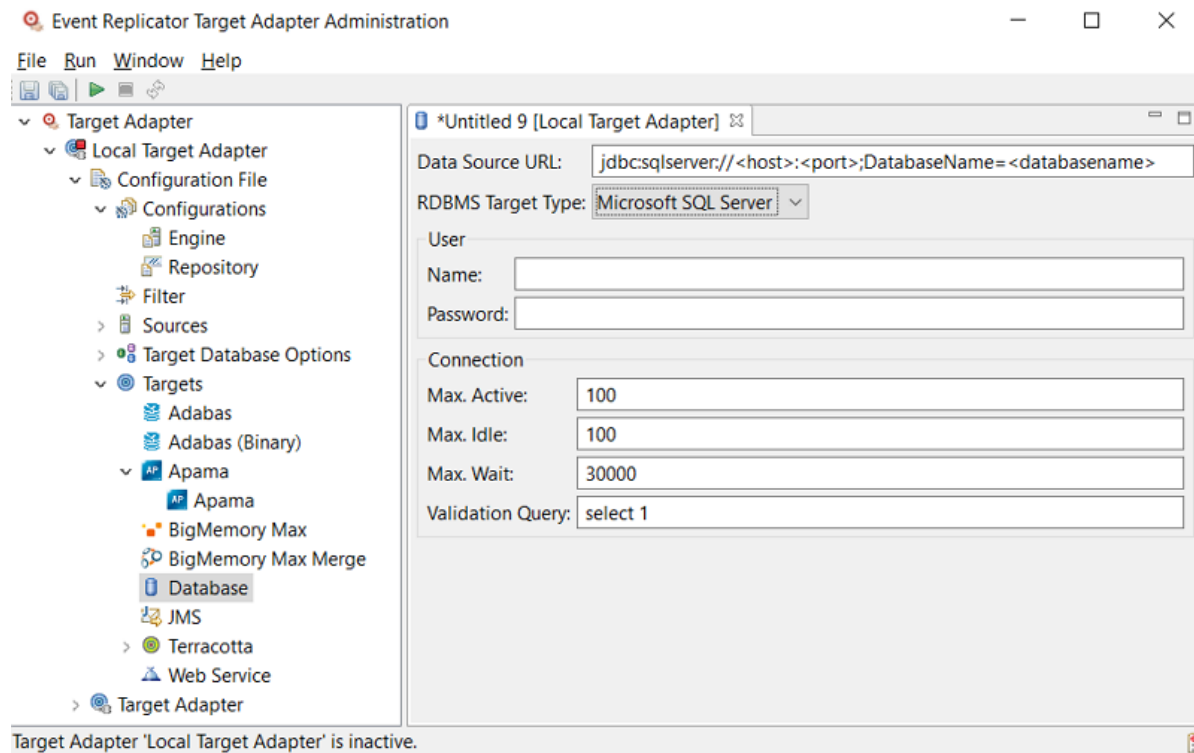
The high-level categorizations of the target definitions appear.

- 4 Right-click on the **Databases** categorization and select **New** from the drop-down menu.

Or:

Select the **New** command from the **File** menu and then **Database Target** from the resulting submenu.

An untitled RDBMS database definition panel appears on the right side of the Administration tool window, as shown below:



- 5 Supply valid values for the RDBMS database installed at your site. The database fields are described here.

Data Source URL

Use this parameter to identify the fully qualified URL of the RDBMS database that should be used by Event Replicator Target Adapter.



Note: The first database type shown in the `RDBMS Target Type` field affects the template shown in the `Data Source URL` field.

The following table provides the URL format that should be used for the different relational databases supported by Event Replicator Target Adapter:

RDBMS Type	Data Source URL Format
DB2	<p><code>jdbc:db2://hostname:port/instance</code></p> <p>Replace <i>hostname</i> with the name of the host machine on which DB2 is installed, <i>port</i> with the DB2 listening port (the default is 50000), and <i>instance</i> with the case-sensitive name of the DB2 database instance you created in the installation steps for DB2 (read <i>Installation Considerations for DB2</i> in the <i>Event Replicator Target Adapter Installation Guide</i>).</p>
DB2 on z/OS	<p><code>jdbc:db2://hostname:port/instance</code></p> <p>Replace <i>hostname</i> with the name of the host machine on which DB2 for z/OS is installed, <i>port</i> with the DB2 for z/OS listening port, and <i>instance</i> with the case-sensitive name of the DB2 database instance you created in the installation steps for DB2 for z/OS (read <i>Installation Considerations for DB2 on z/OS</i> in the <i>Event Replicator Target Adapter Installation Guide</i>).</p>
Microsoft SQL Server	<p><code>jdbc:sqlserver://hostname:port;DatabaseName=dbname</code></p> <p>Replace <i>hostname</i> with the name of the host machine on which Microsoft SQL Server is installed, <i>port</i> with the SQL Server listening port (the default is 1433), and <i>dbname</i> with the case-sensitive name of the Event Replicator Target Adapter database you created in the installation steps for Microsoft SQL Server (read <i>Installation Considerations for Microsoft SQL Server</i> in the <i>Event Replicator Target Adapter Installation Guide</i>).</p> <p>Note: Note that named SQL Server instances are allowed and supported. Every instance (named or default) must run on a different port. With Event Replicator Target Adapter 2.7 hotfix 3 and later releases, when you specify an instance name, it takes precedence over any port number you might also supply; with earlier releases of the Event Replicator Target Adapter, the port number takes precedence over the instance name. If neither an instance name or port number is provided, the default port 1433 will be assumed. According to Microsoft, however, optimal performance is obtained by specifying the port number without the instance name. See Microsoft connection URL documentation https://docs.microsoft.com/en-us/sql/connect/jdbc/building-the-connection-url for details. So the safest and fastest way to specify the URL for named instances that will work even using the bulk loader is using the <i>hostname:port</i> syntax.</p>
MySQL	<p><code>jdbc:mysql://hostname:port/instance</code></p> <p>Replace <i>hostname</i> with the name of the host machine on which MySQL is installed, <i>port</i> with the MySQL listening port (the default is 3306), and <i>instance</i> with the case-sensitive name of the MySQL database instance you created in the installation steps for MySQL (read <i>Installation Considerations for MySQL</i> in the <i>Event Replicator Target Adapter Installation Guide</i>).</p>
Oracle	<p><code>jdbc:oracle:thin:@hostname:port:instance</code></p> <p>Replace <i>hostname</i> with the name of the host machine on which Oracle is installed, <i>port</i> with the port number for the database (the default is 1521), and <i>instance</i> with the Oracle database instance name you created in the installation steps for Oracle (read <i>Installation Considerations for Oracle</i> in the <i>Event Replicator Target Adapter Installation Guide</i>).</p>

RDBMS Type	Data Source URL Format
PostgreSQL	<p><code>jdbc:postgresql://hostname:port/database-name</code></p> <p><code>jdbc:postgresql://hostname:port/databasename</code></p> <p>Replace <i>hostname</i> with the name of the host machine on which PostgreSQL is installed, <i>port</i> with the PostgreSQL listening port (the default is 5432), and <i>database-name</i> with the case-sensitive name of the PostgreSQL database you created in the installation steps for PostgreSQL (read <i>Installation Considerations for PostgreSQL</i> in the <i>Event Replicator Target Adapter Installation Guide</i>).</p>
Teradata	<p><code>jdbc:teradata://hostname/DATABASE=dbname,DBS_PORT=port[,CHARSET=utf8]</code></p> <p>Replace <i>hostname</i> with the name of the host machine on which Teradata is installed, <i>dbname</i> with the name of the Teradata database catalog you want to use, and <i>port</i> with the Teradata listening port (read <i>Installation Considerations for Teradata</i> in the <i>Event Replicator Target Adapter Installation Guide</i>).</p> <p>Optionally, if you have applied an Event Replicator Target Adapter hot fix that provides support for UTF-8 characters in Teradata databases, you can specify the "CHARSET=utf8" parameter to indicate that you will be loading UTF-8 data to the database. For more information about the hot fixes that support this, refer to the README file provided with Event Replicator Target Adapter.</p>

RDBMS Target Type

Identifies the type of the RDBMS. The following table provides the driver class value that should be used for the different relational databases supported by Event Replicator Target Adapter:

RDBMS Type	Driver Class Value
DB2	<code>com.ibm.db2.jcc.DB2Driver</code>
DB2 on z/OS	<code>com.ibm.db2.jcc.DB2Driver</code>
Microsoft SQL Server	<code>com.microsoft.sqlserver.jdbc.SQLServerDriver</code>
MySQL	<code>com.mysql.jdbc.Driver</code>
Oracle	<code>oracle.jdbc.driver.OracleDriver</code>
PostgreSQL	<code>org.postgresql.Driver</code> ↵

RDBMS Type	Driver Class Value
Teradata	com.ncr.teradata.TeraDriver ↵
	Note: Teradata RDBMS versions prior to version 12 will no longer be supported in future versions of the Event Replicator Target Adapter.

Name

Specify a user name with authorization to access the database.

Password

Specify the password associated with the user name.

6 Supply the connection parameters:

Max. Active

Specify the maximum number of active connections provided by the connection pool. Enter the number of maximum anticipated concurrent connections to the target. As a guide, you should enter a number equivalent to the number of Event Replicator sources that may at any one time be providing replicated data to this target.

Max. Idle

Specify the maximum number of idle connections in the connection pool. Usually this number is set to the same as **Max. Active**.


Max. Wait

Specify the time (in milliseconds) that Event Replicator will wait for an available connection from the connection pool.

Validation Query

The SQL query used to validate the connection. The default is determined by the target type. We recommend not changing this value from the default.

7

Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the target database definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

A **Save As** pop-up window appears.

Specify the name of the new target definition on the **Save As** pop-up window and then click the **OK** button.

The definition is saved in the context file for the Event Replicator Target Adapter.

Maintaining JMS Target Definitions

You can configure the Event Replicator Target Adapter to stream replicated data from the Event Replicator to a JMS topic or queue managed by a JMS provider that supports the "Java Naming and Directory Interface" (JNDI). To do this, you must create a target definition for each unique JMS topic or queue with which you want Event Replicator Target Adapter to interact.

➤ **To set up a JMS target definition for the Event Replicator Target Adapter, complete the following steps:**

You must have a JMS target or queue created that is designed to handle the replicated data. For information on setting this up, consult the JMS provider documentation.

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then the **Targets** section.

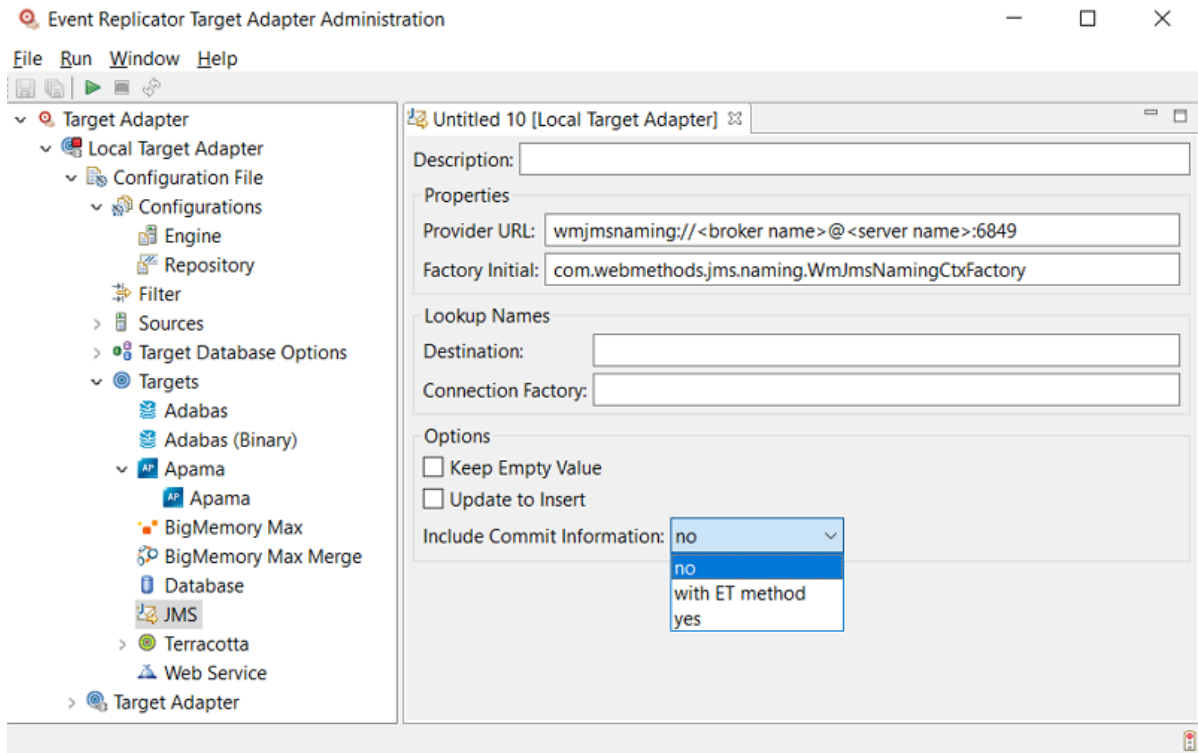
The high-level categorizations of the target definitions appear.

- 3 Right-click on the **JMS** categorization and select **New** from the drop-down menu.

Or:

Select the **New** command from the **File** menu and then **JMS Target** from the resulting submenu.

An untitled JMS target definition panel appears on the right side of the Administration tool window, as shown below:




- 4 Supply valid values for the JMS queue or topic. The JMS fields are described here.

Field Name	Value
Description	Type a description for this target definition.
Provider URL	Supply the fully-qualified URL of the initial context of the JNDI provider in which the JMS-administered objects should be stored by the Event Replicator Target Adapter. This JNDI provider must be managed by the JMS provider.
Factory Initial	The class name of the JNDI factory. This JNDI factory must be managed by the JMS provider.
Destination	Supply the lookup name of the destination. This is either the name of the JMS topic or the JMS queue, as defined by the JMS provider.
Connection Factory	Supply the name of the topic (publish-subscribe) or queue (point-to-point) connection factory to be used, as defined by the JMS provider.
Keep Empty Value	<p>Select this option (check it) to indicate that all values of periodic (PE) fields or multiple-value (MU) fields within PE fields should be replicated, even if they are empty. If this option is NOT selected, only non-empty values of PE fields or MU fields within PE fields are replicated.</p> <p>This option is only available for JMS targets when running the Event Replicator with OPTIONS=32 on the mainframe.</p>
Update to Insert	Select this option (check it) to indicate that update commands should be converted to insert commands. When this option is selected, the Event Replicator Target Adapter first issues a delete of the existing row if it exists and then inserts a new row with the

Field Name	Value
	<p>changed information instead of issuing an update command. To use this feature, the mainframe replication OPTIONS parameter specified in the destination class parameter data (DCLASSPARM parameter) must be set to 32 (OPTIONS=32). For more information read .</p> <p>Caution: Specifying the OPTIONS=32 option results in the entire Adabas record image being sent to the Event Replicator Target Adapter and can lead to the degradation of overall throughput and performance of the Event Replicator Target Adapter.</p> <p>The default is to leave this option unchecked (unselected).</p> <p>Note: This setting is ignored for requests to use a loader to process and load initial-state data. For more information about the option to use a loader, read about the Use Loader option.</p>
Include Commit Information	<p>Select an option from the drop-down menu on whether and how to include Adabas commit time information in the replicated data for all processed transactions.</p> <ul style="list-style-type: none"> Option "with ET method" is the equivalent of a false (unchecked box) value in previous Event Replicator Target Adapter versions and will produce output for the transaction information as follows: <pre> <?xml version="1.0" encoding="UTF-8"?> <artdocument version="1" committed="2018/10/04-12:46:41.284060"> <method>update</method> <tableName>EMPLOYEES</tableName> <fields> <field name="ISN" value="1130" /> <field name="CITY" value="Auckland2" /> </fields> </artdocument> <?xml version="1.0" encoding="UTF-8"?> <artdocument version="1" committed="2018/10/04-12:46:41.284060"> <method>ET</method> </artdocument> </pre> Option "yes" will provide the commit information in the following format: <pre> <?xml version="1.0" encoding="UTF-8"?> <artdocument version="1" committed="2018/10/04-12:44:42.834695"> <method>update</method> <tableName>EMPLOYEES</tableName> <fields> <field name="ISN" value="1130" /> <field name="CITY" value="Auckland" /> </fields> </artdocument> </pre>

Field Name	Value
	■ The default is "no", no commit information is provided.

- 5 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the target JMS definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

A **Save As** pop-up window appears.

Specify the name of the new target definition on the **Save As** pop-up window and then click the **OK** button.

The definition is saved in the context file for the Event Replicator Target Adapter.

Maintaining BigMemory Max and BigMemory Max Merge Target Definitions

You can configure the Event Replicator Target Adapter to stream replicated data from the Event Replicator to a BigMemory Max cache. To do this, you must create a target definition for a BigMemory Max environment with which you want Event Replicator Target Adapter to interact. The Event Replicator Target Adapter offers two different BigMemory Max targets: "BigMemory Max" and "BigMemory Max Merge". "BigMemory Max" replicates an Adabas file to a BigMemory Max cache. "BigMemory Max Merge" has the ability, but is also able to merge multiple Adabas files to one cache via a single key.

➤ **To set up a BigMemory Max target definition for the Event Replicator Target Adapter, complete the following steps:**

You must have a BigMemory Max environment that is designed to handle the replicated data. For information on setting this up in BigMemory Max, read Terracotta documentation on Software GmbH's [Empower](#) web site.

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#).
- 2 On the left side of the Administration tool window, expand the Configuration File section and then the Targets section.

The high-level categorizations of the target definitions appear.

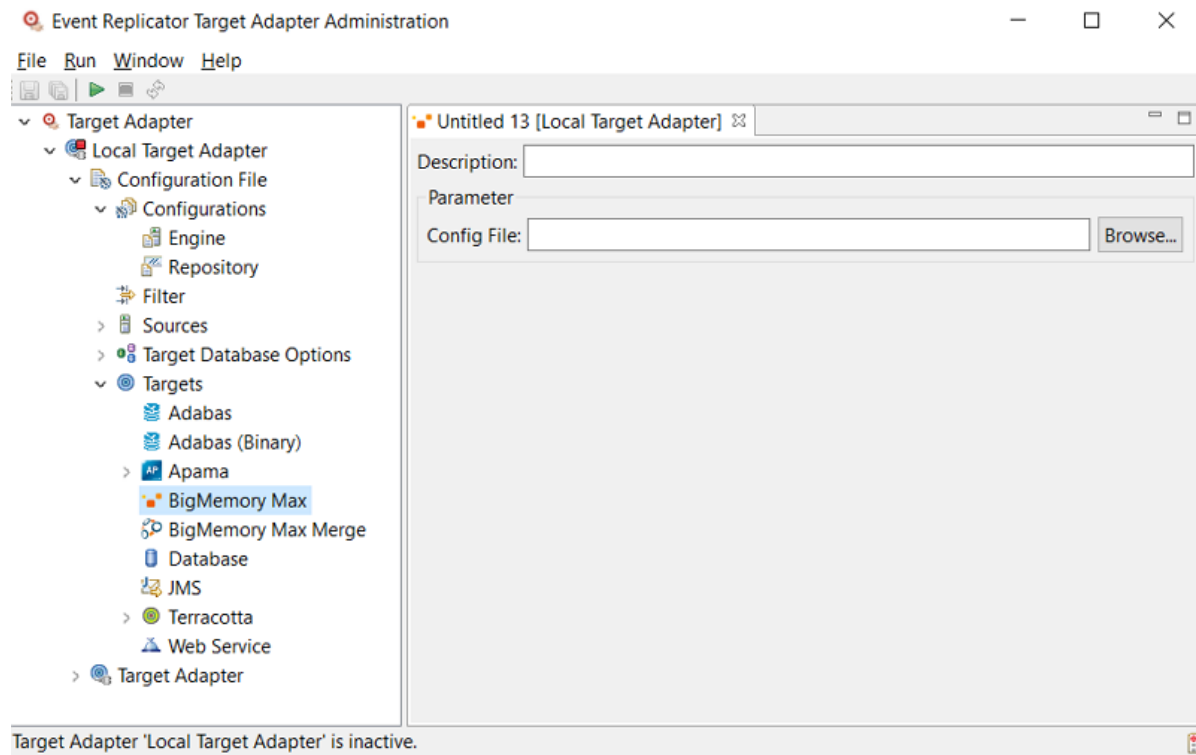
- 3 Right-click on the BigMemory Max categorization and select New from the drop-down menu.

Or:

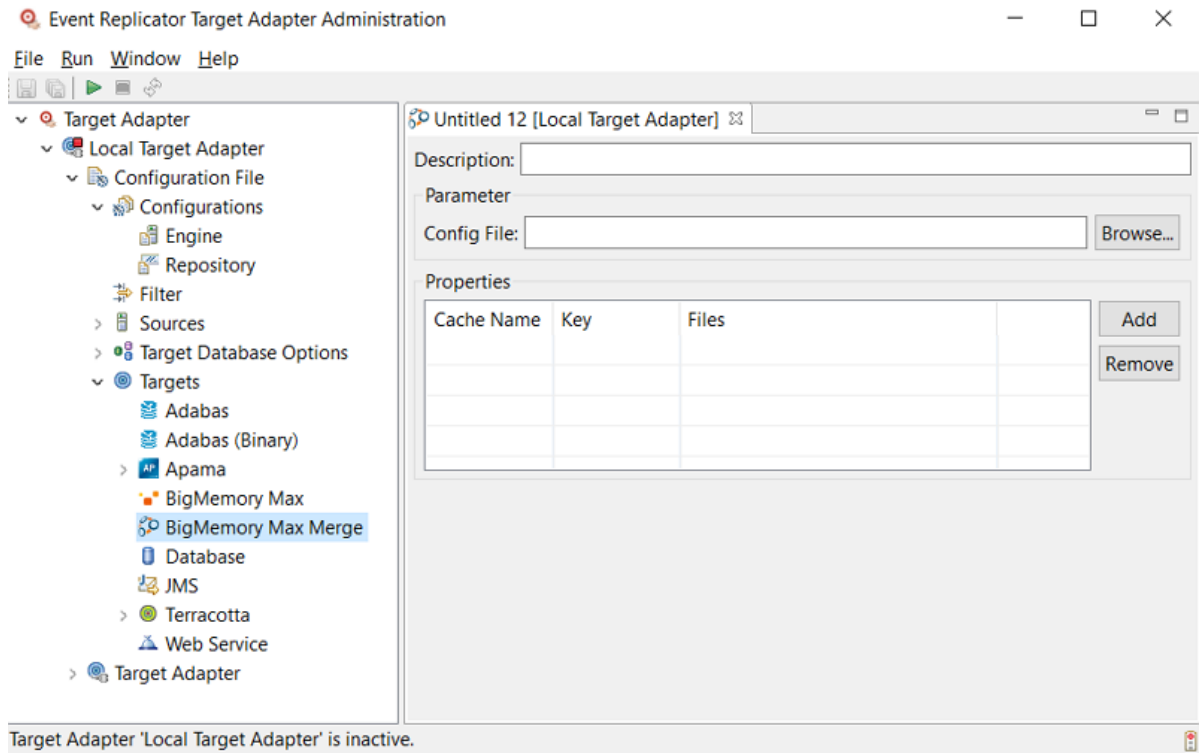
Select the New command from the File menu and then BigMemory Max Target from the resulting submenu.

An untitled BigMemory Max target definition panel appears on the right side of the Administration tool window, as shown below:

BigMemory Max target:




BigMemory Max Merge target:



Supply valid values for the BigMemory Max target. The BigMemory Max fields are described in the following table:

Field Name	Value
Description	Type a description for this target definition.
Config File	Supply the path to <i>ehcache.xml</i> . BigMemory Max offers different types of cache: from local cache to clustered server arrays. All parameters are controlled by the <i>ehcache.xml</i> file. In order to connect to the right BigMemory Max instance, the Event Replicator Target Adapter will use the specified configuration file. More details about the configuration file can be found in the BigMemory Max documentation.
Properties	Note: Only applicable for BigMemory Max Merge targets. By clicking on the “Add” button a new merge cache definition can be defined.
Cache Name	Name of the merged cache.
Key	Key that must exist in every merged file.
Files	List of Adabas Files that are merge in the cache. The file must be separated with a comma.

- 4 Once all fields have been specified satisfactorily, click the Save button () on the toolbar to save the target Terracotta definition.

Or:

Select the Save command on the File menu of the Administration tool.

A “Save As” pop-up window appears.

Specify the name of the new target definition on the “Save As” pop-up window and then click the OK button.

The definition is saved in the context file for the Event Replicator Target Adapter.



Note: The *ehcache.xml* file is not affected by any entries made here. You must provide *ehcache.xml* according to your cache configuration. See the BigMemory Max documentation on Software GmbH's [Empower](#) web site for more information on *ehcache.xml*.

Maintaining Web Service Target Definitions

You can configure the Event Replicator Target Adapter to stream replicated data from the Event Replicator to a web service instead of an SQL database. To do this, you must create a target definition for each unique web service with which you want Event Replicator Target Adapter to interact.

➤ **To set up a web service target definition for the Event Replicator Target Adapter, complete the following steps:**

You must have a web service created that is designed to handle the replicated data.

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then the **Targets** section.

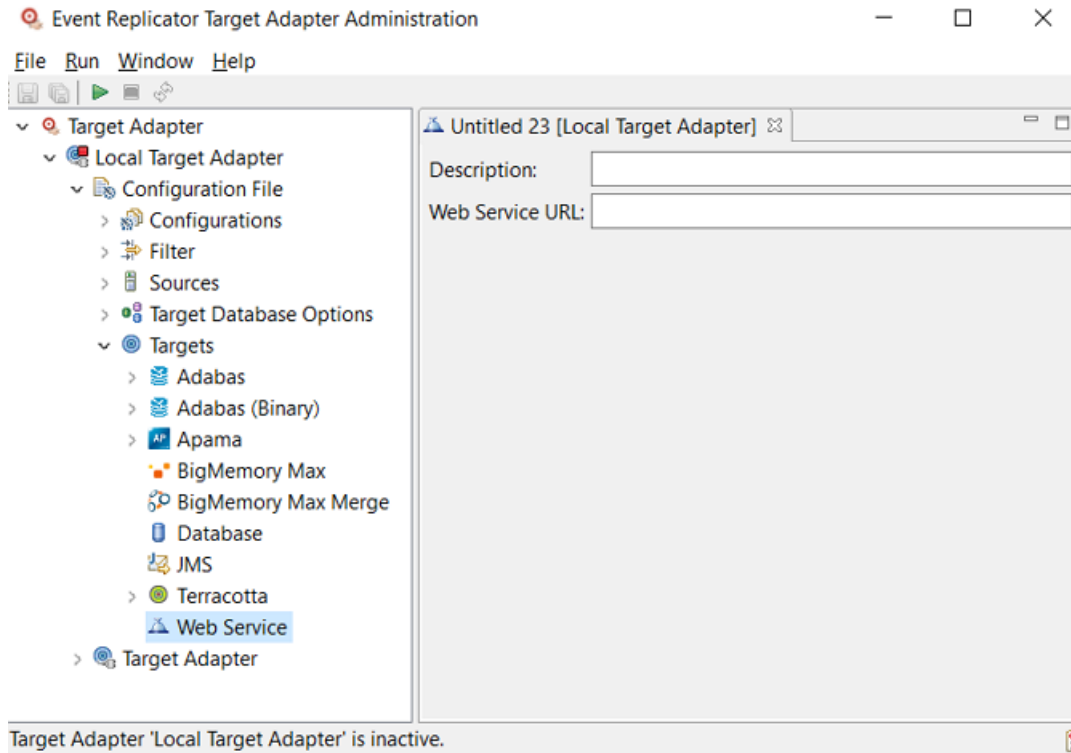
The high-level categorizations of the target definitions appear.

- 3 Right-click on the **Web Service** categorization and select **New** from the drop-down menu.

Or:


Select the **New** command from the **File** menu and then **Web Service Target** from the resulting submenu.

An untitled web service target definition panel appears on the right side of the Administration tool window, as shown below:



- 4 Supply valid values for the web service. The web service fields are described here.

Field Name	Value
Description	Type a description for this target definition.
Web Service URL	Use this parameter to supply the fully-qualified URL of your web service.

- 5 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the target web service definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

A **Save As** pop-up window appears.

Specify the name of the new target definition on the **Save As** pop-up window and then click the **OK** button.

The definition is saved in the context file for the Event Replicator Target Adapter.

Maintaining Adabas Target Definitions

You can configure the Event Replicator Target Adapter to stream replicated data from the Event Replicator to Adabas on Linux, UNIX and Windows. To do this, you must create a target definition for the Adabas environment you want Event Replicator Target Adapter to interact with.



Note: Use of short names in Adabas to Adabas replication requires Event Replicator for Adabas Version 3.7.1 with zap AZ371002 applied.

When the Target Adapter receives data that is bound for an Adabas target, it will leverage functionality provided by Adabas Client for Java (ACJ) to store data in the target. Adabas short names are used in the replication unless an ACJ map is defined. For more information on replication to an Adabas target and the use of maps, please refer to the *Event Replicator Target Adapter* documentation.

➤ **To set up an Adabas target definition for the Event Replicator Target Adapter, complete the following steps:**

You must have an Adabas environment that is designed to handle the replicated data. For information on setting up Adabas, refer to the Adabas documentation on Software GmbH's [Empower](#) web site.

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then the **Targets** section.

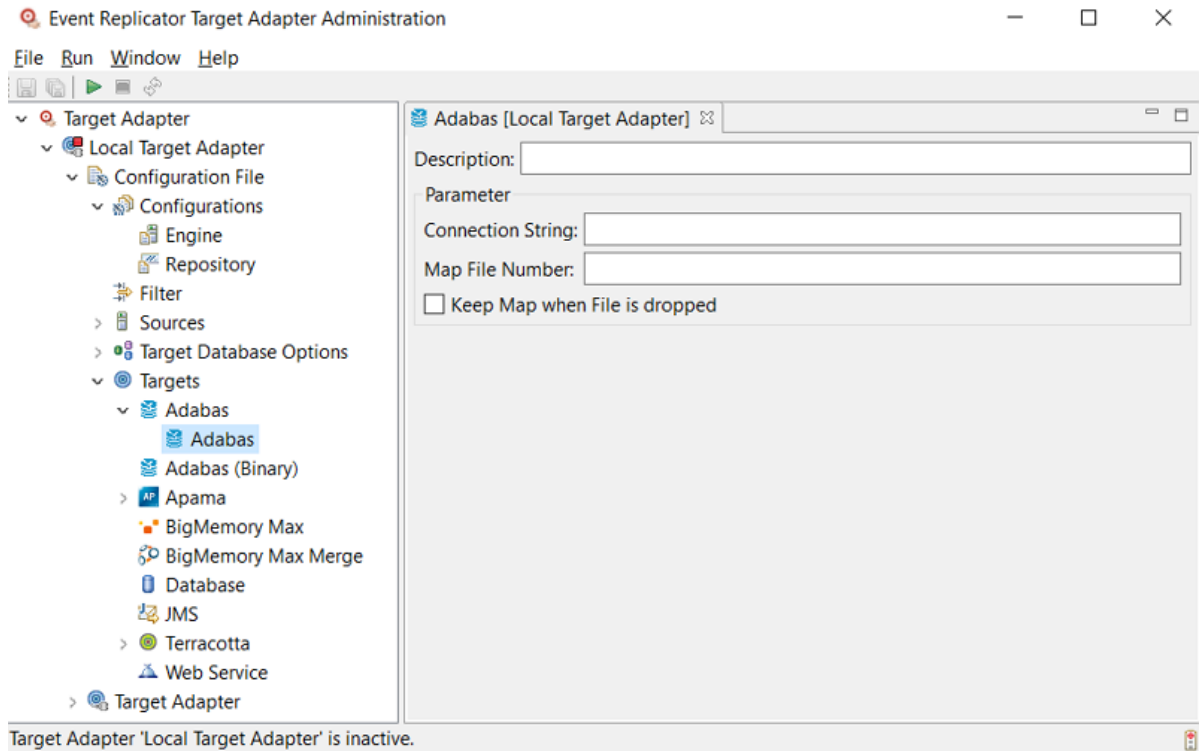
The high-level categorizations of the target definitions appear.

- 3 Right-click on the **Adabas** categorization and select **New** from the drop-down menu.

Or:


Select the **New** command from the **File** menu and then **Adabas Target** from the resulting submenu.

An untitled Adabas target definition panel appears on the right side of the Administration tool window, as shown below:



- 4 Supply valid values for the Adabas target. The target fields are described below:

Field Name	Value
Description	Type a description for this target definition.
Connection String	<p>Connect string to access Adabas. For details check the <i>Adabas Client for Java (ACJ)</i> documentation.</p> <p>Examples:</p> <p>24 – local database 24</p> <p>123(tcpip://10.20.30.40:123) - remote database accessed through Entire Net-Work on host 10.20.30.40 and port number 123</p>
Map File Number	<p>Map file number on the Target database.</p> <p>Note: Only needed when ACJ maps are used.</p>
Keep Map when File is dropped	<p>The Event Replicator Target Adapter deletes the file if the drop command is received. When a map is used this option controls whether the map is kept.</p> <p>Note: Only needed when ACJ maps are used.</p>

- 5 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the Adabas target definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

A **Save As** pop-up window appears.

Specify the name of the new target definition on the **Save As** pop-up window and then click the **OK** button.

The definition is saved in the context file for the Event Replicator Target Adapter.

Maintaining Adabas (Binary) Target Definitions

You can configure the Event Replicator Target Adapter to stream replicated data from the Event Replicator to Adabas on Linux, UNIX and Windows using raw binary source data. This method is analogous to Node to Node replication on the mainframe and bypasses conversion of replicated transactions to XML data as is used in other replication scenarios. To do this, you must create a target definition for the Adabas environment you want Event Replicator Target Adapter to interact with.

➤ **To set up an Adabas (Binary) target definition for the Event Replicator Target Adapter, complete the following steps:**

You must have an Adabas environment that is designed to handle the replicated data. The target database must be accessible via a lookup in a Adabas Directory Server. The Directory Server Entry is normally created by an Entire Net-Work node that services that Adabas target and registers the database with the Directory Server. For information on setting up Adabas and configuring its access via Entire Net-Work, refer to the documentation for those products on Software GmbH's [Empower](#) web site.

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then the **Targets** section.

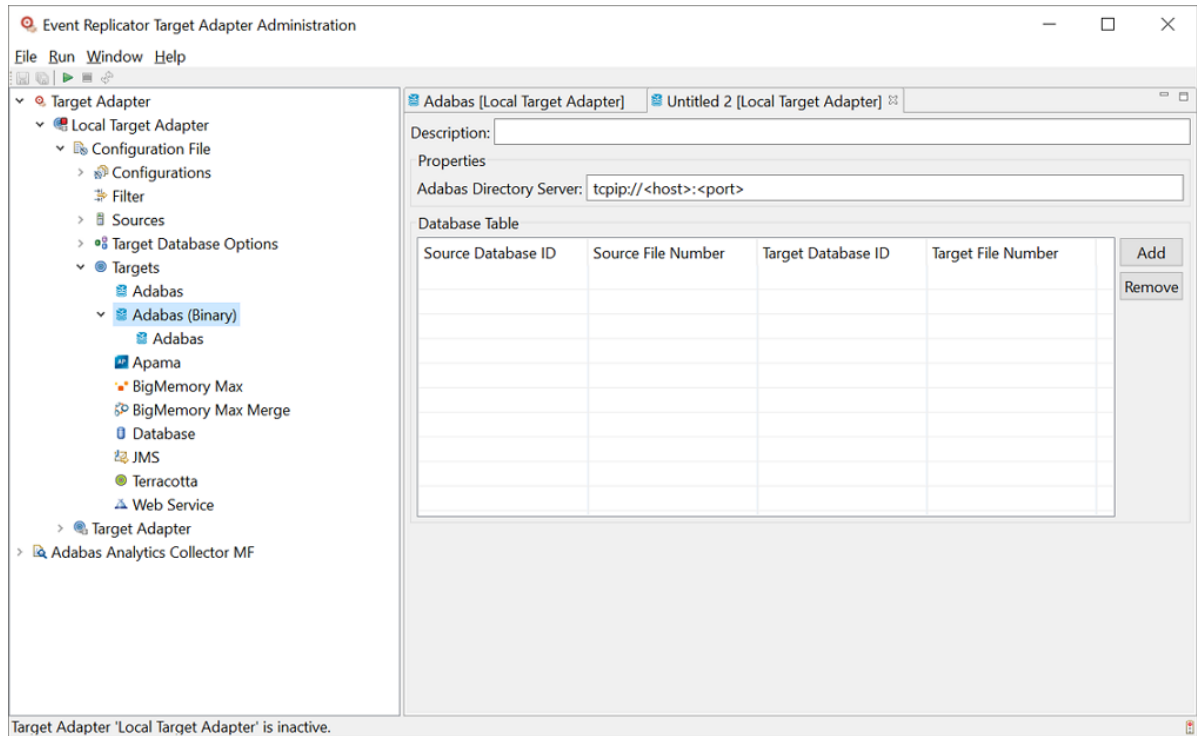
The high-level categorizations of the target definitions appear.

- 3 Right-click on the **Adabas (Binary)** icon and select **New** from the drop-down menu.

Or:

Select the **New** command from the **File** menu and then **Adabas (Binary) Target** from the resulting submenu.

An untitled Adabas (Binary) target definition panel appears on the right side of the Administration tool window, as shown below:




- 4 Supply valid values for the Adabas target. The target fields are described below:

Field Name	Value
Description	Enter a description for this target definition.
Adabas Directory Server	Connection string to the Adabas Directory Server: tcpip://<host>:<port>
Database Table	Use this table to map the source files to the target files. Use the Add button to add new rows and the Remove button to remove a row.

- 5 The Adabas Directory Server is used for doing lookup of the Adabas target.
- 6 For the mapping of the target files to the source files, wildcard notations are available as well as excluding files from the replication. Here are some examples:

Database Table					
Source Database ID	Source File Number	Target Database ID	Target File Number		
1	2	3	4	1	Add Remove
5	*			2	
6	*	106	*	3	

- **1** the file from source database 1 with file number 2 is mapped to target database 3 with file number 4
- **2** all files from source database 5 are not processed (ignored)
- **3** all files from source database 6 are mapped to target database 106

7 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the Adabas (Binary) target definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

A **Save As** pop-up window appears.

Specify the name of the new target definition on the **Save As** pop-up window and then click the **OK** button.

The definition is saved in the context file for the Event Replicator Target Adapter.

Maintaining Terracotta Target Definitions

You can configure the Event Replicator Target Adapter to stream replicated data from the Event Replicator to a Terracotta target. To do this, you must create a target definition for the Terracotta environment you want Event Replicator Target Adapter to interact with.

Terracotta behaves like a relational database system with datasets that are comparable to tables in an RDBMS.

➤ **To set up a Terracotta target definition for the Event Replicator Target Adapter, complete the following steps:**

You must have a Terracotta environment that is designed to handle the replicated data. For information on setting up Terracotta, refer to the *Terracotta* documentation on Software GmbH's [Empower](#) web site.

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then the **Targets** section.

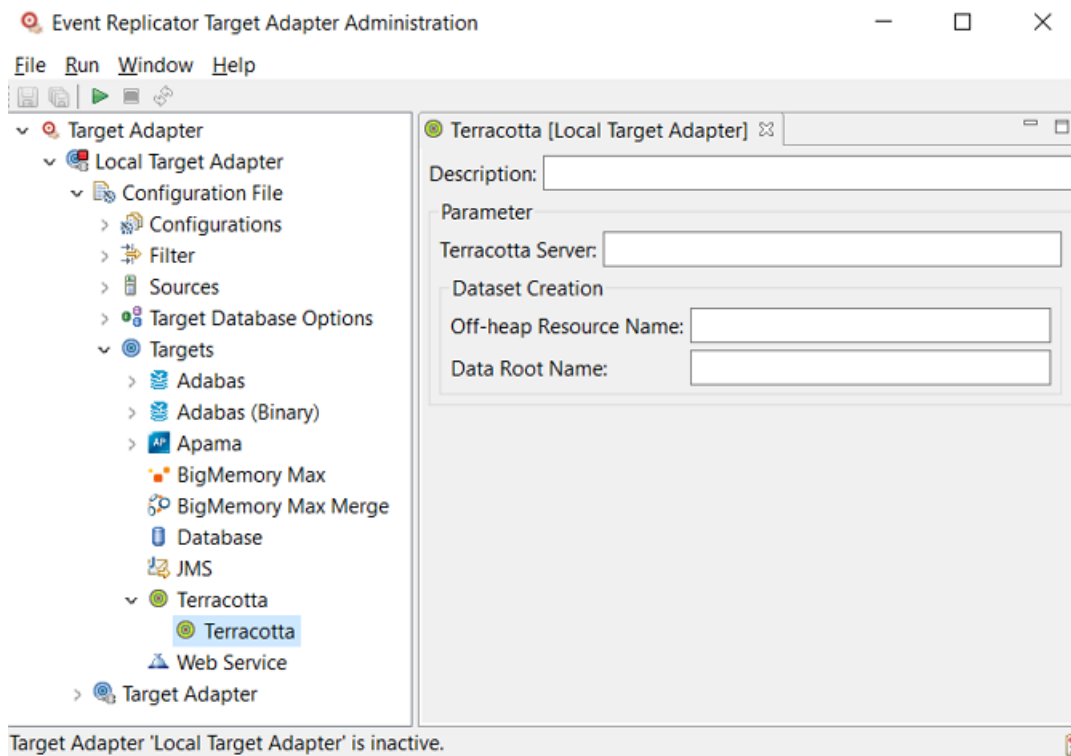
The high-level categorizations of the target definitions appear.

- 3 Right-click on the **Terracotta** categorization and select **New** from the drop-down menu.

Or:


Select the **New** command from the **File** menu and then **Terracotta Target** from the resulting submenu.

An untitled Terracotta target definition panel appears on the right side of the Administration tool window, as shown below:



- 4 Supply valid values for the Terracotta target. The Terracotta fields are described here.

Field Name	Value
Description	Type a description for this target definition.
Terracotta Server	Connection string to Terracotta Server: <code>terracotta://<host>:<port></code>
Off-heap Resource Name	Off-heap resource name as defined in the configuration file <i>tc-config.xml</i> .
Data Root Name	Data root name as defined in the configuration file <i>tc-config.xml</i> . Note: Only needed if persistence is required.

- 5 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the Terracotta target definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

A **Save As** pop-up window appears.

Specify the name of the new target definition on the **Save As** pop-up window and then click the **OK** button.

The definition is saved in the context file for the Event Replicator Target Adapter.

Maintaining Apama Target Definitions

You can configure the Event Replicator Target Adapter to stream replicated data from the Event Replicator to an Apama target. To do this, you must create a target definition for the Apama environment you want Event Replicator Target Adapter to interact with.

With the Apama Target, Adabas business data can be sent to Apama for further processing. The schema how the data is sent to Apama can be learned from the code below:

```
package com.softwareag.adabas;

/** This event type contains the Adabas Business Data */
event AdabasBusinessData {
    dictionary<string, string> fields;
    dictionary<string, sequence<string> > multiple_fields;
    dictionary<string, sequence<AdabasBusinessData> > periodic_groups;
}

/** This event type contains the Adabas Business Event */
event AdabasBusinessEvent {
    string method;
    string table_name;
    string key;
    AdabasBusinessData data;
}
```


The following are examples for Adabas business data that is sent to Apama.

Insert

```
com.softwareag.adabas.AdabasBusinessEvent(
  "Insert",
  "EMPL_EMPLOYEES",
  "1111",
  com.softwareag.adabas.AdabasBusinessData(
    {
      "CITY": "Auckland",
      "COUNTRY": "NZ",
      "DEPT": "SALE01",
      "FIRST_NAME": "Max",
      "ISN": "1111",
      "NAME": "Johnson",
      "PERSONNEL_ID": "12345678"
    },
    {
      "LANG": ["ENG", "FRA"]
    },
    {
      "INCOME":
      [
        com.softwareag.adabas.AdabasBusinessData(
          {
            "CURRCODE": "FRA",
            "SALARY": "159980"
          },
          {
            "BONUS": ["23000"]
          },
          {}
        ]
      ]
    }
  )
)
```

Update

```
com.softwareag.adabas.AdabasBusinessEvent(
  "Update",
  "EMPL_EMPLOYEES",
  "1111",
  com.softwareag.adabas.AdabasBusinessData(
    { "CITY": "Wellington", "ISN": "1111" },
    {},
    {}
  )
)
```

Delete

```
com.softwareag.adabas.AdabasBusinessEvent(  
    "Delete",  
    "EMPL_EMPLOYEES",  
    "1111",  
    com.softwareag.adabas.AdabasBusinessData(  
        {"ISN": "1111"},  
        {},  
        {}  
    )  
)
```

➤ To set up an Apama target definition for the Event Replicator Target Adapter, complete the following steps:

You must have an Apama environment that is designed to handle the replicated data. For information on setting up Apama, refer to the *Apama* documentation on Software GmbH's [Empower](#) web site.

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then the **Targets** section.

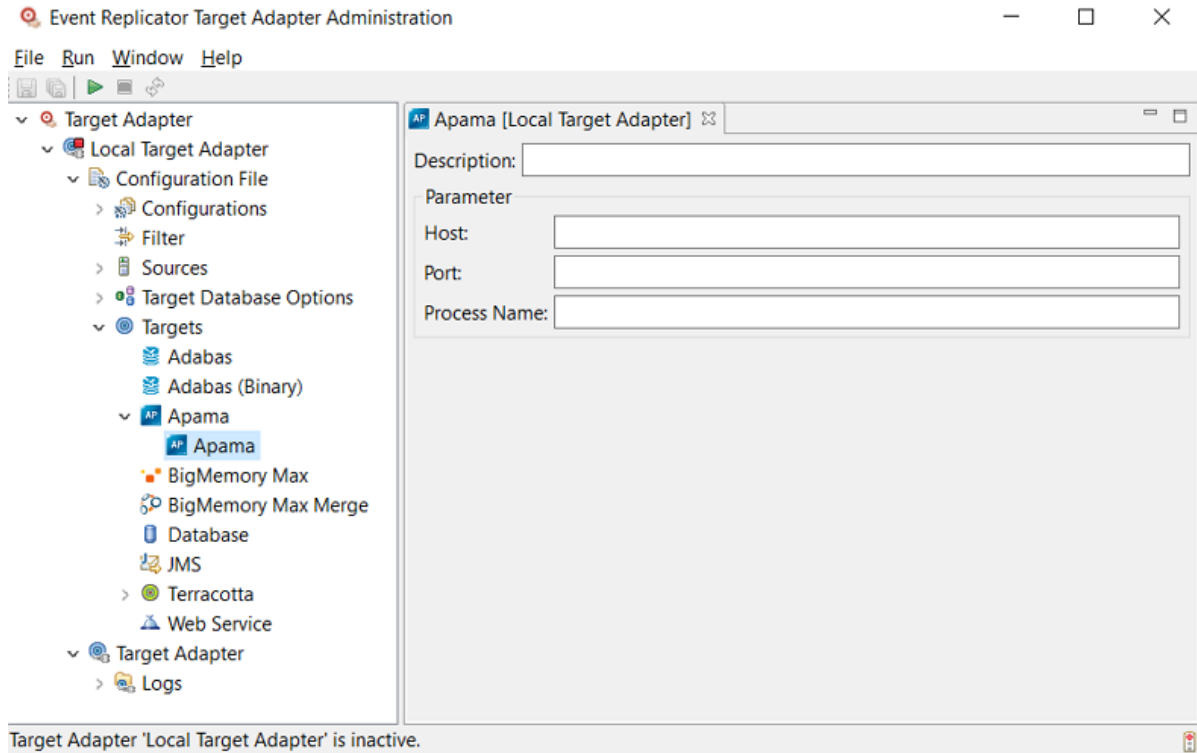
The high-level categorizations of the target definitions appear.

- 3 Right-click on the **Apama** categorization and select **New** from the drop-down menu.

Or:


Select the **New** command from the **File** menu and then **Apama Target** from the resulting submenu.

An untitled Apama target definition panel appears on the right side of the Administration tool window, as shown below:



- 4 Supply valid values for the Apama target. The target fields are described here.

Field Name	Value
Description	Type a description for this target definition.
Host	Use this parameter to identify the Apama host name.
Port	Use this parameter to identify the Apama port.
Process Name	Use this parameter to identify the Apama Process name. Note: This parameter is optional.

- 5 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the Apama target definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

A **Save As** pop-up window appears.

Specify the name of the new target definition on the **Save As** pop-up window and then click the **OK** button.

The definition is saved in the context file for the Event Replicator Target Adapter.

Modifying Existing Target Definitions

» To modify an existing target definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.


- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then the **Targets** section.

The high-level categorizations of the target definitions (**Database** and **Web Service**) appear.

- 3 Expand the **Database**, **JMS**, or **Web Service** categorizations, locate the target definition you want to modify in them, and double-click on the name.

The definition opens on the right side of the Administration tool.

- 4 Modify the values of the target definition as described in [Defining New RDBMS Database Target Definitions](#) and [Defining New Web Service Target Definitions](#), elsewhere in this section.

- 5 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the target definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

The definition is saved in the context file for the Event Replicator Target Adapter.

Renaming Existing Target Definitions

» To rename an existing target definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then the **Targets** section.

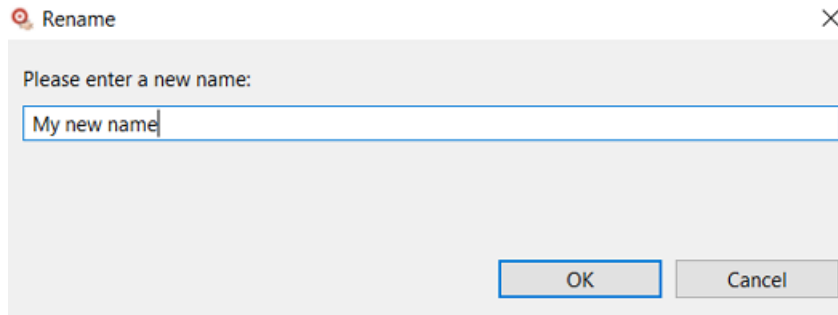
The high-level categorizations of the target definitions (**Database** and **Web Service**) appear.

- 3 Expand the **Database**, **JMS**, or **Web Service** categorizations, locate the target definition you want to rename, and right-click on the name.

A drop-down menu appears providing you with several options.


- 4 Select the **Rename** option on the drop-down menu.

A **Rename** dialog for the target definition appears. Here is a sample of such a dialog when you rename a database target:



- 5 Supply a new name for the target definition in the input field and click **OK**.
- 6 Make sure you have altered any source definitions that reference the target definition. For more information, read [Configuring Source Definitions for Event Replicator Target Adapter](#), elsewhere in this guide.

In addition, make sure that any target database option definitions with the same name are also renamed. Target database option definitions must have the same name as any target database to which they apply (unless the default definition is used). For more information, read [Specifying Target Database Processing Option Definitions](#), elsewhere in this guide.

- 7 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the target definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

The definition is saved in the context file for the Event Replicator Target Adapter.

Deleting Existing Target Definitions

➤ To delete an existing target definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then the **Targets** section.

The high-level categorizations of the target definitions (**Database** and **Web Service**) appear.

- 3 Expand the **Database**, **JMS**, or **Web Service** categorizations, locate the target definition you want to delete, and right-click on the name.

A drop-down menu appears providing you with several options.

- 4 Select the **Delete** option on the drop-down menu.

A dialog prompting you to verify that you really want to delete the target definition appears.

- 5 Select **Yes** to delete the definition.
- 6 Make sure you have altered any source definitions that reference the target definition. For more information, read [Configuring Source Definitions for Event Replicator Target Adapter](#), elsewhere in this guide.

Configuring Target Definitions for Adabas Analytics Collector MF

The Adabas Analytics Collector MF currently supports one type of target to which analytics data can be submitted: Elasticsearch. Before you can use the Adabas Analytics Collector MF, you must set up a *target definition* for every unique target you intend to use for the analytics data the Adabas Analytics Collector MF processes. These definitions provide Adabas Analytics Collector MF with the information it needs to access your target.

- [Maintaining Elasticsearch Database Target Definitions](#)
- [Maintaining Apama Target Definitions](#)
- [Modifying Existing Target Definitions](#)
- [Renaming Existing Target Definitions](#)
- [Deleting Existing Target Definitions](#)



Note: You will need to restart the Adabas Analytics Collector MF service or daemon to fully process any additions or changes made to Adabas Analytics Collector MF configuration definitions in the Administration tool.

Maintaining Elasticsearch Database Target Definitions

You must define target definitions for each unique Elasticsearch target you intend to use with the Adabas Analytics Collector MF prior to using the collector. These definitions will provide Adabas Analytics Collector MF with the information it needs to access your Elasticsearch.



Note: Do not copy the *context.xml*, *server.xml*, or any configuration file from an older installation and expect it to work for this installation. Errors will result if you try this.

➤ **To define a target definition for Elasticsearch:**

- 1 Make sure you have completed all of the installation instructions specific to your Elasticsearch, as described in the Adabas Analytics Collector MF documentation.
- 2 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 3 On the left side of the Administration tool window, expand the **Adabas Analytics Collector MF** section, your Adabas Analytics Collector MF environment and then the **Targets** section.

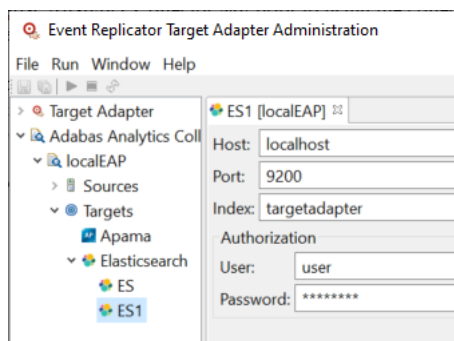
The high-level categorizations of the target definitions appear.

- 4 Right-click on the **Elasticsearch** node and select **New** from the drop-down menu.

Or:

Select the **New** command from the **File** menu and then **Elasticsearch Target** from the resulting submenu.

An untitled Elasticsearch definition panel appears on the right side of the Administration tool window, as shown below:



- 5 Supply valid values for the Elasticsearch installed at your site. The database fields are described here.

Field Name	Value
Host	Use this parameter to identify the Elasticsearch host name.
Port	Use this parameter to identify the Elasticsearch port. The default of 9200 is given.
Index	Use this parameter to identify the Elasticsearch index name.
User	Use this parameter to identify the Elasticsearch user, if required.
Password	Use this parameter to identify the Elasticsearch password, if required.

Maintaining Apama Target Definitions

You must define target definitions for each unique Apama target you intend to use with the Adabas Analytics Collector MF prior to using the collector. These definitions will provide Adabas Analytics Collector MF with the information it needs to access your Apama.

With the Apama Target Adabas Analytic data can be sent to Apama for further processing. The schema how the data is sent to Apama can be seen from the code below:

```
package com.softwareag.adabas;

/** This event contains the Adabas Analytic Data */
event AdabasAnalyticsEvent {
    string name;
    string date;
    dictionary<string, string> fields;
}
```

Here is an example for Adabas Analytic data that is sent to Apama:

```
com.softwareag.adabas.AdabasAnalyticsEvent(
    "ReptorStatisticGlobal",
    "Thu Sep 12 14:03:03 CEST 2019",
    {
        "dbFCBFDTTTransOnSLOG": "0",
        "dbTransDeloggedSLOG": "0",
        "dbTransLoggedSLOG": "0",
        "dbTransOnSLOG": "0",
        "inputTransactions": "0",
        "intervalLength": "60002",
        "nucleusID": "0",
        "pendingInputTransactions": "0",
        "reptorStatus": "RSTA",
        "targetID": "22133",
        "timestamp": "Thu Sep 12 14:02:03 CEST 2019",
        "timestampEnd": "Thu Sep 12 14:03:03 CEST 2019",
        "totalBackoutsAllQueues": "0",
        "totalBytesAllDests": "22784",
        "totalBytesAllQueues": "0",
        "totalCommitsAllQueues": "0",
        "totalItemsDeloggedSLOG": "0",
        "totalItemsLoggedSLOG": "0",
        "totalItemsOnSLOG": "0",
        "totalMessagesAllDests": "24",
        "totalMessagesAllQueues": "0",
        "type": "ReptorStatisticGlobal"
    }
)
```


➤ To define a target definition for Apama:

- 1 Make sure you have completed all of the installation instructions specific to your Apama, as described in the Adabas Analytics Collector MF documentation.
- 2 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 3 On the left side of the Administration tool window, expand the **Adabas Analytics Collector MF** section, your Adabas Analytics Collector MF environment and then the **Targets** section.

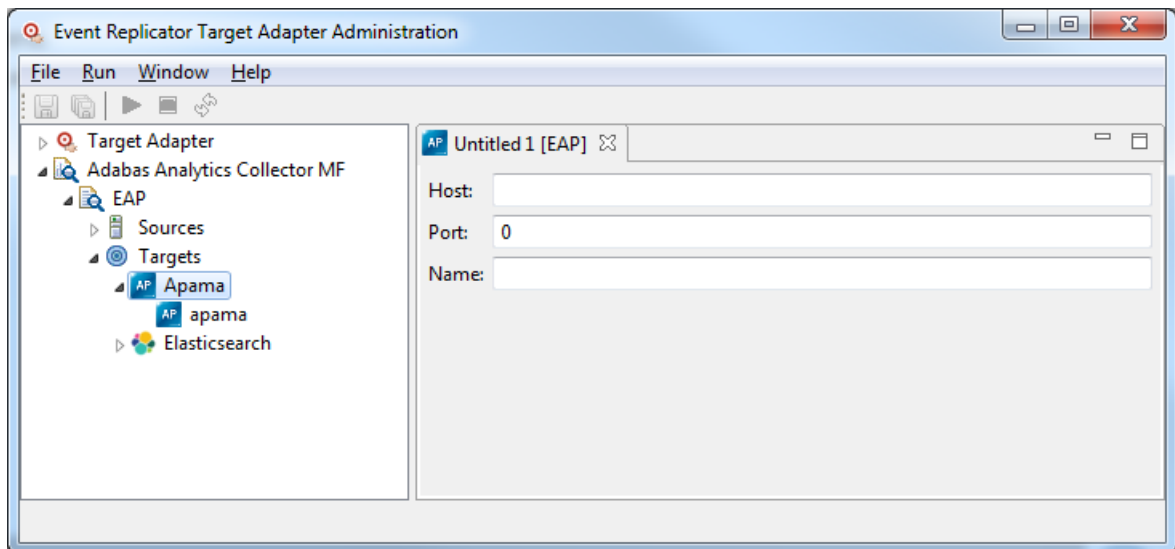
The high-level categorizations of the target definitions appear.

- 4 Right-click on the **Apama** node and select **New** from the drop-down menu.

Or:

Select the **New** command from the **File** menu and then **Apama Target** from the resulting submenu.

An untitled Apama definition panel appears on the right side of the Administration tool window, as shown below:



- 5 Supply valid values for the Apama installed at your site. The database fields are described [here](#).

Field Name	Value
Host	Use this parameter to identify the Apama host name.
Port	Use this parameter to identify the Apama port.
Name	Use this parameter to identify the Apama Process name. Note: This parameter is optional.

Modifying Existing Target Definitions

➤ To modify an existing target definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.


- 2 On the left side of the Administration tool window, expand the **Adabas Analytics Collector MF** section, your Adabas Analytics Collector MF environment and then the **Targets** section.

The high-level categorization of the target definitions (Elasticsearch) appears.

- 3 Expand the **Elasticsearch** categorizations, locate the target definition you want to modify, and double-click on the name.

The definition opens on the right side of the Administration tool.

- 4 Modify the values of the target definition as described in [Maintaining Elasticsearch Database Target Definitions](#), elsewhere in this section.

- 5 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the target definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

The definition is saved in the context file for the Adabas Analytics Collector MF.

Renaming Existing Target Definitions

➤ To rename an existing target definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Adabas Analytics Collector MF** section, your Adabas Analytics Collector MF environment and then the **Targets** section.

The high-level categorization of the target definitions (Elasticsearch) appears.

- 3 Expand the **Elasticsearch** categorization, locate the target definition you want to rename, and right-click on the name.

A drop-down menu appears providing you with several options.

- 4 Select the **Rename** option on the drop-down menu.

A **Rename** dialog for the target definition appears.

- 5 Supply a new name for the target definition in the input field and click **OK**.
- 6 Make sure you have altered any source definitions that reference the target definition. For more information, read [Configuring Source Definitions for Adabas Analytics Collector MF](#), elsewhere in this guide.

Deleting Existing Target Definitions

➤ To delete an existing target definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Adabas Analytics Collector MF** section, your Adabas Analytics Collector MF environment and then the **Targets** section.

The definition opens on the right-hand side of the Administration tool.

- 3 Expand the **Elasticsearch** categorization, locate the target definition you want to delete, and right-click on the name.

A drop-down menu appears providing you with several options.

- 4 Select the **Delete** option on the drop-down menu.

A dialog prompting you to verify that you really want to delete the target definition appears.

- 5 Select **Yes** to delete the definition.
- 6 Make sure you have altered any source definitions that reference the target definition. For more information, read [Configuring Source Definitions for Adabas Analytics Collector MF](#), elsewhere in this guide.

Specifying Target Database Processing Option Definitions

You can set processing options for your target databases. You do this by creating and using *target database processing option definitions*.

- [Creating a New Target Database Option Definition](#)
- [Modifying Existing Target Database Option Definitions](#)
- [Renaming Existing Target Database Option Definitions](#)
- [Deleting Existing Target Database Option Definitions](#)



Note: You will need to restart the Event Replicator Target Adapter to fully process any additions or changes made to Event Replicator Target Adapter Configuration definitions in the Administration tool. For more information, read *Restarting the Event Replicator Target Adapter*, in the *Event Replicator Target Adapter User Guide*.

Creating a New Target Database Option Definition

You must define target definitions for each unique RDBMS database you intend to use with the Event Replicator Target Adapter prior to using Event Replicator Target Adapter. These definitions provide Event Replicator Target Adapter with the information it needs to access your RDBMS and to communicate with Event Replicator for Adabas via IBM EntireX or WebSphere MQ.



Note: Do not copy the *context.xml*, *server.xml*, or any configuration file from an older installation and expect it to work for this installation. Errors will result if you try this.

➤ To create a new target database option definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

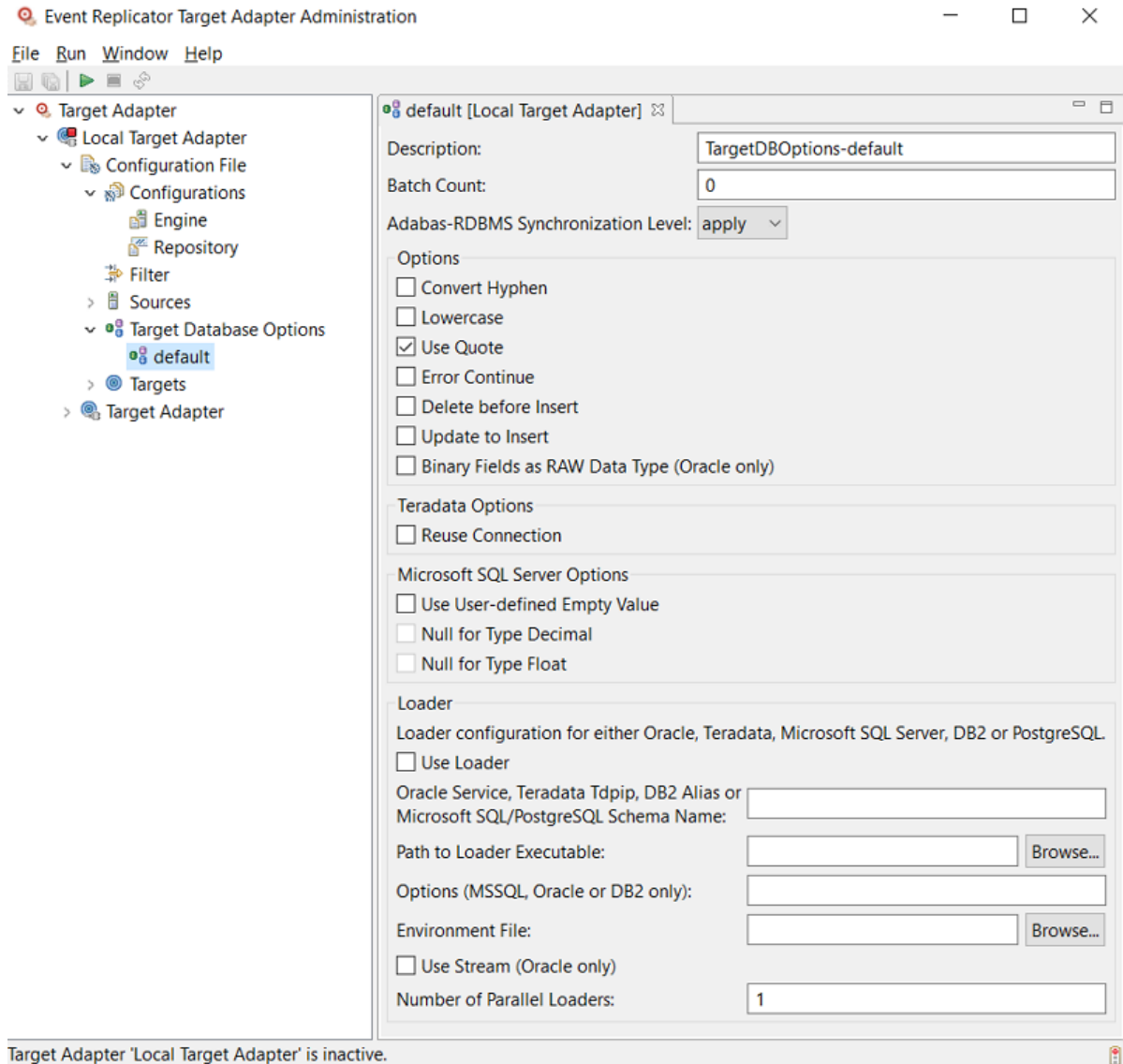
The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section.
- 3 Right-click on the **Target Database Options** section and select **New** from the drop-down menu.

Or:

Select the **New** command from the **File** menu and then **Target Database Option** from the resulting submenu.

An untitled target database option definition panel appears on the right side of the Administration tool window, as shown below:



- 4 Verify and update the values for the database option definition panel, as described in the following table:

Field Name	Description
Description	Specify a description for the database option definition.
Batch Count	<p>Specify zero (0) for this field unless specifically directed to change it by a support representative.</p> <p>This field specifies the recommended maximum number of SQL statements that should be grouped and sent to the RDBMS to process as a batch. Use of this environment entry can be used to improve the performance of your database and is especially useful if you are requesting that initial-state data or ADALOD data be replicated to your RDBMS database. The value you specify should be selected based on your RDBMS database and network configuration requirements.</p> <p>If you specify zero ("0") for this field, all SQL statements generated for a transaction are grouped and processed in a single batch. If you specify any other value for this field, then any generated SQL statements are grouped and processed in batches of statements that do not exceed the number of statements you specified. For example if you set this field to 1000, a maximum of 1000 SQL statements would be grouped and processed in a single batch.</p> <p>Note:</p> <ol style="list-style-type: none"> 1. A single Adabas transaction can result in multiple SQL statements to update the RDBMS database. To maintain database integrity, the Event Replicator Target Adapter will be sure to group and process all of the SQL statements generated for an individual transaction in one batch, regardless of the setting of the Batch Count field. 2. The Event Replicator Target Adapter does not support use of this field for Teradata databases; consequently, you should be sure that this field is set to zero (0) for Teradata databases.
Adabas-RDBMS Synchronization Level	<p>Select the level at which the Event Replicator Target Adapter should synchronize the RDBMS table layout with the Adabas file.</p> <p>The RDBMS-Adabas file synchronization (activated by this option) is triggered by the use of a new GFB and field table (GFFT) in the subscription you use for replication. Therefore, if you make changes to your Adabas database file or field structure, you must generate a new GFB/GFFT (using the Data Mapping Tool) and apply it to the appropriate subscription definition, prior to replicating data with the new structure.</p> <p>Valid values for this option are:</p> <ul style="list-style-type: none"> ■ ignore: This is the default. The existing table layout is ignored, differences between the RDBMS table layout and the Adabas file are ignored, and no synchronization occurs. <p>This setting might cause Event Replicator Target Adapter processing to stop if you have made changes to your Adabas database file or field structure and have included a newly-generated GFB/GFFT in the subscription you use for replication.</p>

Field Name	Description
	<p>When the Event Replicator Target Adapter receives the newly-structured replicated data, but this option is set to "ignore", it will <i>not</i> attempt to synchronize the RDBMS table layout with the new Adabas database structure. Any new or enhanced fields will not be recognized by the Event Replicator Target Adapter and processing will stop.</p> <ul style="list-style-type: none"> ■ warn: Warning messages are written to the log about the differences between the RDBMS table layout and the Adabas file, but no synchronization occurs. <p>This setting might cause Event Replicator Target Adapter processing to stop if you have made changes to your Adabas database file or field structure and have included a newly-generated GFB/GFFT in the subscription you use for replication. When the Event Replicator Target Adapter receives the newly-structured replicated data, but this option is set to "ignore", it will <i>not</i> attempt to synchronize the RDBMS table layout with the new Adabas database structure (although it will issue a warning message). Any new or enhanced fields will not be recognized by the Event Replicator Target Adapter and processing will stop.</p> <ul style="list-style-type: none"> ■ error: Event Replicator Target Adapter processing stops if the differences between the RDBMS table layout and Adabas file cause errors. No synchronization occurs. ■ apply: The RDBMS is altered (synchronized) with the Adabas file, with the following limitations: <ul style="list-style-type: none"> ■ No columns in the RDBMS table are removed, although they can be added. ■ The size or length of a data field will not be reduced. It can only be increased. ■ Data type conversions will not occur (for example, if Column A used to be an integer but has been changed to VARCHAR). ■ Added or altered columns cannot contain foreign key, unique key, or a primary key attribute. ■ RDBMS columns cannot be renamed.
Convert Hyphen	<p>Select this option (check it) to indicate that hyphens (-) in table and column names should be automatically converted to underscore characters (_).</p> <p>When you select this option, it indicates that hyphens in table and column names should be converted to underscore characters; if you do not select this option, it indicates that they should not.</p>
Lowercase	<p>Select this option (check it) to indicate that the table and column names should be automatically converted to lowercase.</p> <p>When you select this option, it indicates that table and column names should be converted to lowercase; if you do not select this option, it indicates that they should not.</p>
Use Quote	<p>Select this option (check it) to indicate that table and column names should be included in quotation marks (").</p> <p>When you select this option, it indicates that the table and column names should be included in quotation marks; if you do not select this option, it indicates that</p>

Field Name	Description
	they should not. Be aware that <i>not</i> selecting this option has performance implications because this setting causes the Event Replicator Target Adapter to analyze each table and column name for use of special characters.
Error Continue	<p>Select this option (check it) to indicate that Event Replicator Target Adapter should continue processing when SQL transaction errors occur.</p> <p>When you select this option, it indicates that, after logging the error, Event Replicator Target Adapter should continue processing data when a SQL transaction error occurs; if you do not select this option, it indicates that, after logging the error, Event Replicator Target Adapter should terminate.</p>
Delete before Insert	<p>Select this option (check it) to indicate that an existing record should be deleted before its replacement is inserted in the table. This allows you to specify how resent data from the Event Replicator is handled in the table. Data will be resent from the Event Replicator if Event Replicator abnormally terminates and then is restarted.</p> <p>Note: This setting is ignored for requests to use a loader to process and load initial-state data. For more information about the option to use a loader, read about the Use Loader option.</p> <p>When you select this option, it indicates that existing records should be deleted before their replacements are inserted; if you do not select this option, it indicates that the replacement records should simply be inserted without deletion. Be aware that selecting this option has performance implications because Event Replicator Target Adapter must first determine whether each record it processes already exists in the table.</p>
Update to Insert	<p>Select this option (check it) to indicate that update commands should be converted to insert commands. When this option is selected, the Event Replicator Target Adapter first issues a delete of the existing row if it exists and then inserts a new row with the changed information instead of issuing an update command. To use this feature, the mainframe replication OPTIONS parameter specified in the destination class parameter data (DCLASSPARM parameter) must be set to 32 (OPTIONS=32). For more information read .</p> <p>Caution: Specifying the OPTIONS=32 option results in the entire Adabas record image being sent to the Event Replicator Target Adapter and can lead to the degradation of overall throughput and performance of the Event Replicator Target Adapter.</p> <p>The default is to leave this option unchecked (unselected).</p> <p>Note: This setting is ignored for requests to use a loader to process and load initial-state data. For more information about the option to use a loader, read about the Use Loader option.</p>
Binary Fields as RAW Data Type (Oracle only)	Binary Fields will be stores in Oracle fields with data type 'raw'.

Field Name	Description
Reuse Connection	<p>This option is only useful for Teradata databases.</p> <p>Select this option (check it) to indicate that the data source connection should be reused, instead of using the Tomcat connection pool. By selecting this option, you can reduce the number of SQL commands issued by the JDBC driver, thus reducing the performance overhead of Event Replicator Target Adapter processing to Teradata databases.</p> <p>The default is to leave this field unselected (unchecked).</p>
User-Defined Empty Value	<p>This option is only useful for Microsoft SQL Server databases.</p> <p>Select this option (check it) to indicate that zero or null should be used to represent an empty value for numeric, integer, or floating point fields directed to Microsoft SQL Server databases. When you select this option, the Null for Type Decimal and Null for Type Float fields become selectable.</p> <p>The default is to leave this field unselected (unchecked).</p> <p>This option was introduced in an Event Replicator Target Adapter hot fix, prior to release 2.6. If you want to set this as the default for tables created before this option was made available in the Event Replicator Target Adapter, you should run the following command:</p> <pre>ALTER TABLE <i>table_name</i> ADD CONSTRAINT <i>constraint_name</i> DEFAULT 0 FOR <i>column_name</i></pre> <p>Substitute the appropriate table, constraint, and column names in the command.</p> <p>Likewise, if you want to change the values in the tables created before this option was made available in the Event Replicator Target Adapter, run the following command:</p> <pre>UPDATE <i>table_name</i> SET <i>column_name</i> = 0 WHERE <i>column_name</i> IS NULL</pre> <p>Substitute the appropriate table and column names in the command.</p>
Null for Type Decimal	<p>This option is only useful for Microsoft SQL Server databases. It only becomes available if the User-Defined Empty Value option is selected (checked).</p> <p>Select this option (check it) to indicate that zero or null should be used for empty numeric or integer fields directed to Microsoft SQL Server databases.</p> <p>The default is to leave this field unselected (unchecked).</p> <p>This option was introduced in an Event Replicator Target Adapter hot fix, prior to release 2.6. If you want to set this as the default for tables created before this option was made available in the Event Replicator Target Adapter, review the instructions provided in the User-Defined Empty Value field above.</p>
Null for Type Float	<p>This option is only useful for Microsoft SQL Server databases. It only becomes available if the User-Defined Empty Value option is selected (checked).</p>


Field Name	Description
	<p>Select this option (check it) to indicate that zero or null should be used for empty floating point fields directed to Microsoft SQL Server databases.</p> <p>The default is to leave this field unselected (unchecked).</p> <p>This option was introduced in an Event Replicator Target Adapter hot fix, prior to release 2.6. If you want to set this as the default for tables created before this option was made available in the Event Replicator Target Adapter, review the instructions provided in the User-Defined Empty Value field above.</p>
Use Loader	<p>Select this option (check it) to indicate that Oracle SQL*Loader, the Teradata MultiLoad (MLoad) utility, the Microsoft SQL Server bulk copy (bcp) utility, the DB2 CONNECT IMPORT or the PostgreSQL Loader (psql) utility command should be used to process and load initial-state data into an Oracle, Teradata, Microsoft SQL, DB2 or the PostgreSQL database. If you select this option, you should evaluate the values for the Service, Path, Options, Environment File and Use Stream fields on this screen, as these fields apply to the use of Oracle SQL*Loader in the Event Replicator Target Adapter.</p> <p>The default is to leave this field unselected (unchecked).</p> <p>For more information on the use of the Oracle SQL*Loader to load initial-state data in the Event Replicator Target Adapter, read <i>Using the Oracle SQL*Loader to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>. For more information on the use of the Teradata MLoad utility to load initial-state data in the Event Replicator Target Adapter, read <i>Using the Teradata MultiLoad (MLoad) Utility to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>. For more information on the use of the Microsoft SQL Server bcp utility to load initial-state data in the Event Replicator Target Adapter, read <i>Using the Microsoft SQL Server Bulk Copy (bcp) Utility to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>. For more information on the use of the DB2 CONNECT IMPORT command to load initial-state data in the Event Replicator Target Adapter, read <i>Using the DB2 CONNECT IMPORT Command to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>.</p> <p>For more information on the use of the PostgreSQL psql command to load initial-state data in the Event Replicator Target Adapter, read <i>Using the PostgreSQL psql Command to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>.</p>
Oracle Service, Teradata Tdpp, Microsoft SQL Schema Name or DB2 Alias	<p>If Oracle SQL*Loader will be used to process and load initial-state data into an Oracle database, optionally specify the Oracle database service name that should be used with the Oracle SQL*Loader. This is the service name you configured using the Oracle Net Manager tool. Optionally, if the Oracle EZConnect feature is supported on this machine, you can specify the machine name, port number, and database name instead of the service name. If the Oracle database is installed and running on the same machine as the Event Replicator Target Adapter and only one Oracle database is installed, this field should be left blank. This is the default. For more information on the use of the Oracle SQL*Loader to load initial-state data in the Event Replicator Target Adapter, read <i>Using the Oracle SQL*Loader to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>.</p>

Field Name	Description
	<p>If the Teradata MLoad utility will be used to process and load initial-state data into a Teradata database, specify the Teradata Director Program Identifier (TDPID) in this field. This is usually the first eight characters of the Teradata database name or the Teradata service name. Teradata database names can be up to 30 characters long. However, MLoad restrictions for Teradata releases up to Version 12 require that TDPIDs be eight (8) characters or less. Event Replicator Target Adapter current logic dynamically determines the TDPID using the first eight characters of the name specified in this field. If you do not supply a name, the first eight characters of the Teradata database name is used. Whatever TDPID is used must also be present in the HOSTS file. Be sure that the specifications in the database option definition and the specification in the HOSTS file match. For more information on the use of the Teradata MLoad utility to load initial-state data in the Event Replicator Target Adapter, read <i>Using the Teradata MultiLoad (MLoad) Utility to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>.</p> <p>If the Microsoft SQL Server Bulk Copy (bcp) utility will be used to process and load initial-state data to a Microsoft SQL Server database, optionally specify the MS SQL Server schema name in this field if the schema name is different from the user login name. Prior to the release of MS SQL Server 2005, all tables created by MS SQL Server used the user login name as the default schema name; in MS SQL Server 2005 and later versions, Microsoft suggests that you use "dbo" as the common schema name (which is different from the user login name). If you have used any MS SQL Server schema name that is not the same as the user login name, specify your non-default schema name in the Oracle Service or Teradata Tdpip field. For more information on the use of the Microsoft SQL Server bcp utility to load initial-state data in the Event Replicator Target Adapter, read <i>Using the Microsoft SQL Server Bulk Copy (bcp) Utility to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>.</p> <p>If the DB2 CONNECT IMPORT command will be used to process and load initial-state data into a DB2 database, specify the alias name of the DB2 database. For more information on the use of the DB2 CONNECT IMPORT command to load initial-state data in the Event Replicator Target Adapter, read <i>Using the DB2 CONNECT IMPORT Command to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>.</p>
Path to Loader Executable	<p>If Oracle SQL*Loader, the Teradata MLoad utility, or the Microsoft SQL Server bulk copy (bcp) utility will be used to process and load initial-state data into an Oracle, Teradata, or Microsoft SQL Server database, this field is required.</p> <ul style="list-style-type: none"> ■ For Oracle SQL*Loader support, specify the full path of the Oracle SQL*Loader executable. You can use the Browse... button to search for the executable on the machine. For more information on the use of the Oracle SQL*Loader to load initial-state data in the Event Replicator Target Adapter, read <i>Using the Oracle SQL*Loader to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>. ■ For Teradata MLoad utility support, specify the full path of the Teradata MLoad utility executable. You can use the Browse... button to search for the executable on the machine. For more information on the use of the Teradata MLoad utility

Field Name	Description
	<p>to load initial-state data in the Event Replicator Target Adapter, read <i>Using the Teradata MultiLoad (MLoad) Utility to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>.</p> <ul style="list-style-type: none"> ■ For Microsoft SQL Server bulk copy (bcp) utility support, specify the full path of the Microsoft SQL Server bcp utility executable. You can use the Browse... button to search for the executable on the machine. For more information on the use of the Microsoft SQL Server bcp utility to load initial-state data in the Event Replicator Target Adapter, read <i>Using the Microsoft SQL Server Bulk Copy (bcp) Utility to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>. ■ For DB2 CONNECT IMPORT command support, specify the full path of the DB2 executable, <i>db2cmd.exe</i>. You can use the Browse... button to search for the executable on the machine. For more information on the use of the DB2 CONNECT IMPORT command to load initial-state data in the Event Replicator Target Adapter, read <i>Using the DB2 CONNECT IMPORT Command to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>. ■ For PostgreSQL psql command support, specify the full path of the psql executable (<i>psql.exe</i> on Windows, <i>psql</i> on Linux). You can use the Browse... button to search for the executable on the machine. For more information on the use of the PostgreSQL psql command to load initial-state data in the Event Replicator Target Adapter, read <i>Using the PostgreSQL psql Utility to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>.
Options (MSSQL, Oracle or DB2 only)	<p>If the Microsoft SQL Server Bulk Copy (bcp) utility will be used to process and load initial-state data into a Microsoft SQL Server database, you can specify the -b (batch size) option in this field. This option specifies the number of rows per batch of imported data. Each batch is imported and logged as a separate transaction that imports the whole batch before being committed. By default, all rows in the data file are imported as one batch. To distribute the rows among multiple batches, use the -b option to specify a batch size that is smaller than the number of rows in the data file. If the transaction for any batch fails, only insertions from the current batch are rolled back. Batches already imported by committed transaction are unaffected by a later failure. Do not use this option in conjunction with the -h ("ROWS_PER_BATCH=bb") option. The syntax of the -b option is:</p> <pre>-b batchsize</pre> <p>If Oracle SQL*Loader will be used to process and load initial-state data into an Oracle database, the rows option can be specified in this field. The rows option specifies the number of rows you want to read from the data file before a data save is performed by the SQL*Loader. The syntax of the rows option is (where <i>nnnn</i> is the number of rows):</p>

Field Name	Description
	<p><code>rows=nnnn</code></p> <p>Note: Use of the <code>rows</code> option can affect performance if it is set too low. We recommend using it for testing and debugging purposes only or, if your file is <i>very</i> large, it can be used to avoid resource restrictions that might arise. For complete information on the <code>rows</code> option, refer to your Oracle SQL*Loader documentation.</p> <p>For more information on the use of the Oracle SQL*Loader to load initial-state data in the Event Replicator Target Adapter, read <i>Using the Oracle SQL*Loader to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>.</p> <p>If the DB2 CONNECT IMPORT command will be used to process and load initial-state data into a DB2 database, there are several options that can be specified in this field. For a complete description of these options and the use of the DB2 CONNECT IMPORT command to load initial-state data in the Event Replicator Target Adapter, read <i>Using the DB2 CONNECT IMPORT Command to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>.</p> <p>Note: This field is not required for Teradata MLoad utility or the PostgreSQL <code>psql</code> utility support; Any values specified in this field for these targets are ignored.</p>
Environment File	<p>Optionally, specify the file name containing the Oracle environment variables that should be used with the Oracle SQL*Loader, if the SQL*Loader will be used to process and load initial-state data into an Oracle database. The Oracle environment variables are used by UNIX and Linux operating systems. If used, the environment variable file will contain settings for the <code>PATH</code>, <code>ORACLE_BASE</code>, and <code>ORACLE_HOME</code> environment variables. You can use the Browse... button to search for the environment file on the machine.</p> <p>If the environment variables are defined at the UNIX or Linux system level, this field should be left blank. This is the default.</p> <p>For more information on the use of the Oracle SQL*Loader to load initial-state data in the Event Replicator Target Adapter, read <i>Using the Oracle SQL*Loader to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>.</p> <p>Note: This field is not required for Teradata MLoad utility or Microsoft SQL Server <code>bcp</code> utility or the PostgreSQL <code>psql</code> utility support; Any values specified in this field for these targets are ignored</p>
Use Stream (Oracle only)	<p>This optional field should only be selected if the Oracle SQL*Loader will be used to process and load initial-state data into an Oracle database. Select this option (check it) to indicate that records should be read in stream mode rather than first being written to DAT files prior to being loaded into the Oracle database. Stream mode processing is much faster and greatly reduces the disk space required for this feature.</p> <p>The default is to leave this field unselected (unchecked).</p>

Field Name	Description
	<p>For more information on the use of the Oracle SQL*Loader to load initial-state data in the Event Replicator Target Adapter, read <i>Using the Oracle SQL*Loader to Load Initial-State Data</i>, in the <i>Event Replicator Target Adapter User Guide</i>.</p> <p>Note: The use of this field for any target other than Oracle is ignored.</p>
Number of Parallel Loaders	<p>Specifies the number of parallel loader processes that can run for the given target. The default is 1.</p> <p>This avoids a potential error that can occur if a second loader process attempts to load files into target tables before a previous one is finished. This can occur if, for example, the user is processing multiple ADARIS loads for the same source/target/dbid/fnr combination, with the first one larger than the second. The result will be unusable tables because competing loader processes attempt to load target tables at the same time.</p> <p>Setting this to 1 will ensure that only one loader process is allowed to run for that same table target at a time.</p>

- 5 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the target database option definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

A **Save As** pop-up window appears.

Specify the name of the new target database option definition on the **Save As** pop-up window and then click the **OK** button.

The definition is saved in the context file.

Modifying Existing Target Database Option Definitions

➤ To modify an existing target database option definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.


The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then expand the **Target Database Options** section.

The target database option definitions are listed.

- 3 Locate the definition in the list of option definitions and double-click on the name.

The definition opens on the right side of the Administration tool.

- 4 Modify the values of the target database option definition as described in [Creating a New Target Database Option Definition](#), elsewhere in this section.
- 5 Once all fields and options have been specified satisfactorily, click the **Save** button () on the toolbar to save the target database option definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

The definition is saved in the context file for the Event Replicator Target Adapter.

Renaming Existing Target Database Option Definitions

➤ To rename an existing target database option definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then expand the **Target Database Options** section.


The target database option definitions are listed.

- 3 Locate the definition in the list of option definitions and right-click on the name.

A drop-down menu appears providing you with several options.

- 4 Select the **Rename** option on the drop-down menu.

A **Rename** dialog for the target database option definition appears.

- 5 Supply a new name for the definition in the input field and click **OK**.
- 6 Make sure you have renamed any target definitions that share the same name as the target database option definition. If you do not do this, the target database option definition will not get applied to the correct target definition. For more information, read [Configuring Target Definitions for Event Replicator Target Adapter](#), elsewhere in this guide.
- 7 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the target database option definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

The definition is saved in the context file for the Event Replicator Target Adapter.

Deleting Existing Target Database Option Definitions

➤ To delete an existing target database option definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then expand the **Target Database Options** section.

The target database option definitions are listed.

- 3 Locate the definition in the list of option definitions and right-click on the name.

A drop-down menu appears providing you with several options.

- 4 Select the **Delete** option on the drop-down menu.

A dialog prompting you to verify that you really want to delete the definition appears.

- 5 Select **Yes** to delete the definition.

Specifying Filter Definitions

You can set filter definitions for Event Replicator Target Adapter processing. You do this by creating and using *filter definitions*. Transactions that meet the requirements set by filter definitions are not processed by the Event Replicator Target Adapter (they are filtered out).

- [Creating a New Filter Definition](#)
- [Filter Definition Processing](#)
- [Modifying Filter Definitions](#)
- [Renaming Filter Definitions](#)
- [Deleting Filter Definitions](#)



Note: You will need to restart the Event Replicator Target Adapter to fully process any additions or changes made to Event Replicator Target Adapter configuration definitions in the Administration tool. For more information, read *Restarting the Event Replicator Target Adapter*, in the *Event Replicator Target Adapter User Guide*.

Creating a New Filter Definition

➤ To create a new filter definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

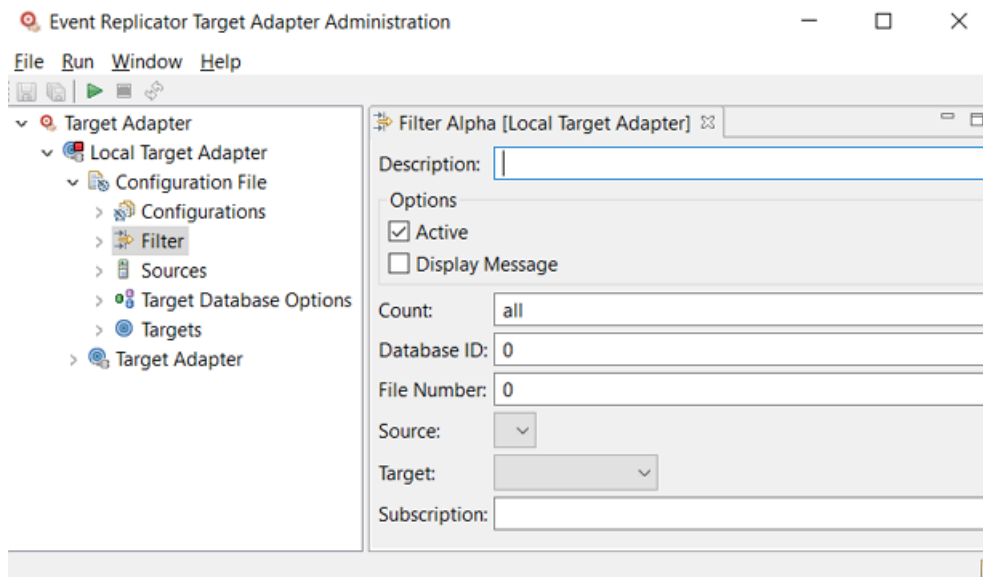
The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section.
- 3 Right-click on the **Filter** section and select **New** from the drop-down menu.

Or:

Select the **New** command from the **File** menu and then **Filter** from the resulting submenu.


An untitled filter definition panel appears on the right side of the Administration tool window, as shown below:



- 4 Verify and update the values for the filter definition panel, as described in the following table:

Field Name	Description
Description	Optionally, specify a description for the filter definition.
Active	Optionally, select this option (check it) to indicate that this filter definition should be active. If this option is not selected, this filter definition will not be applied to the transactions that Event Replicator Target Adapter processes. The default is to select this option.

Field Name	Description
Display Message	Optionally, select this option (check it) to indicate that a message should be written to the log when a transaction is filtered out from Event Replicator Target Adapter processing because it meets all of the criteria specified by this filter condition. The default is to unselect this option (uncheck it).
Count	Optionally, specify the number of transactions that can be rejected by this filter condition if all of the criteria specified by this filter are met. Valid values for this field are any positive integer or the word "all". For example, if "all" is specified, any transaction that meets the conditions specified by this filter is rejected. If "6" is specified, only the first six transactions that meet the conditions specified by this filter are rejected. The default is "all".
Database ID	Optionally, specify an Adabas database ID for the filter definition. If a transaction is processed by the Event Replicator Target Adapter for this database ID, the transaction is rejected for Event Replicator Target Adapter processing.
File Number	Optionally, specify an Adabas file number for the filter definition. If a transaction is processed by the Event Replicator Target Adapter for this file number, the transaction is rejected for Event Replicator Target Adapter processing.
Source	Optionally, specify the name of an Event Replicator Target Adapter source definition for the filter definition. If a transaction is processed by the Event Replicator Target Adapter from this source definition, the transaction is rejected for Event Replicator Target Adapter processing.
Target	Optionally, specify the name of an Event Replicator Target Adapter target definition for the filter definition. If a transaction is processed by the Event Replicator Target Adapter for this target database, the transaction is rejected for Event Replicator Target Adapter processing.
Subscription	Optionally, specify the name of an Event Replicator subscription definition for the filter definition. If a transaction is processed by the Event Replicator Target Adapter from this subscription, the transaction is rejected for Event Replicator Target Adapter processing.

- 5 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the filter option definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

A **Save As** pop-up window appears.

Specify the name of the new filter definition on the **Save As** pop-up window and then click the **OK** button.

The definition is saved in the context file for the Event Replicator Target Adapter.

Filter Definition Processing

An individual filter definition can specify many conditions (database ID, file number, source, target, and subscription names). Any transaction that meets *all* of the conditions in an individual filter definition is rejected by Event Replicator Target Adapter processing. In other words, the conditions specified in an individual filter definition are logically ANDed by the Event Replicator Target Adapter. If a transaction only meets a few of the conditions in an individual filter definition, it is not rejected for processing.

You can also specify multiple filter definitions for Event Replicator Target Adapter processing. In this case, if a transaction is rejected by any one of the filter definitions, it is not processed by the Event Replicator Target Adapter. In other words, the conditions specified by different filter definitions are logically ORed by the Event Replicator Target Adapter. If a transaction does not meet all of the filter conditions in any individual filter condition (although it might meet a few conditions in several different filter conditions) it is still processed by the Event Replicator Target Adapter.

Transactions that are filtered out can be identified in the Event Replicator Target Adapter log file, depending on the setting of the **Display Message** option in the filter definition.

Modifying Filter Definitions

➤ To modify an filter definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then expand the **Filter** section.

The filter definitions are listed.

- 3 Locate the definition in the list of option definitions and double-click on its name.

The definition opens on the right side of the Administration tool.

- 4 Modify the values of the filter definition as described in [Creating a New Filter Definition](#), elsewhere in this section.

- 5 Once all fields and options have been specified satisfactorily, click the **Save** button () on the toolbar to save the filter definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

The definition is saved in the context file for the Event Replicator Target Adapter.

Renaming Filter Definitions

➤ To rename an existing filter definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then expand the **Filter** section.

The filter definitions are listed.


- 3 Locate the definition in the list of option definitions and right-click on its name.

A drop-down menu appears providing you with several options.

- 4 Select the **Rename** option on the drop-down menu.

A **Rename** dialog for the filter definition appears.

- 5 Supply a new name for the definition in the input field and click **OK**.

- 6 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the filter definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

The definition is saved in the context file for the Event Replicator Target Adapter.

Deleting Filter Definitions

➤ To delete an existing filter definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then expand the **filter** section.

The filter definitions are listed.

- 3 Locate the definition in the list of option definitions and right-click on its name.

A drop-down menu appears providing you with several options.

- 4 Select the **Delete** option on the drop-down menu.

A dialog prompting you to verify that you really want to delete the definition appears.

- 5 Select **Yes** to delete the definition.

Configuring Source Definitions for Event Replicator Target Adapter

The Event Replicator Target Adapter supports two types of sources through which replicated data can be submitted to your RDBMS databases and web services: IBM EntireX and WebSphere MQ (MQSeries). Before you can use the Event Replicator Target Adapter, you must set up a *source definition* for every unique IBM EntireX or WebSphere MQ data source you will be using to retrieve the replicated data for your Event Replicator Target Adapter targets.

- [Defining a New IBM EntireX Source Definition](#)
- [Defining a New WebSphere MQ Source Definition](#)
- [Specifying Global Source Trace Options](#)
- [Modifying Existing Source Definitions](#)
- [Renaming Existing Source Definitions](#)
- [Deleting Existing Source Definitions](#)



Note: You will need to restart the Event Replicator Target Adapter to fully process any additions or changes made to Event Replicator Target Adapter configuration definitions in the Administration tool. For more information, read *Restarting the Event Replicator Target Adapter*, in the *Event Replicator Target Adapter User Guide*.

Defining a New IBM EntireX Source Definition

You must define a IBM EntireX source definitions for each unique IBM EntireX system that the Event Replicator Target Adapter needs to use to access your RDBMS and to communicate with Event Replicator for Adabas via IBM EntireX.

➤ To define a new IBM EntireX source definition for Event Replicator Target Adapter:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

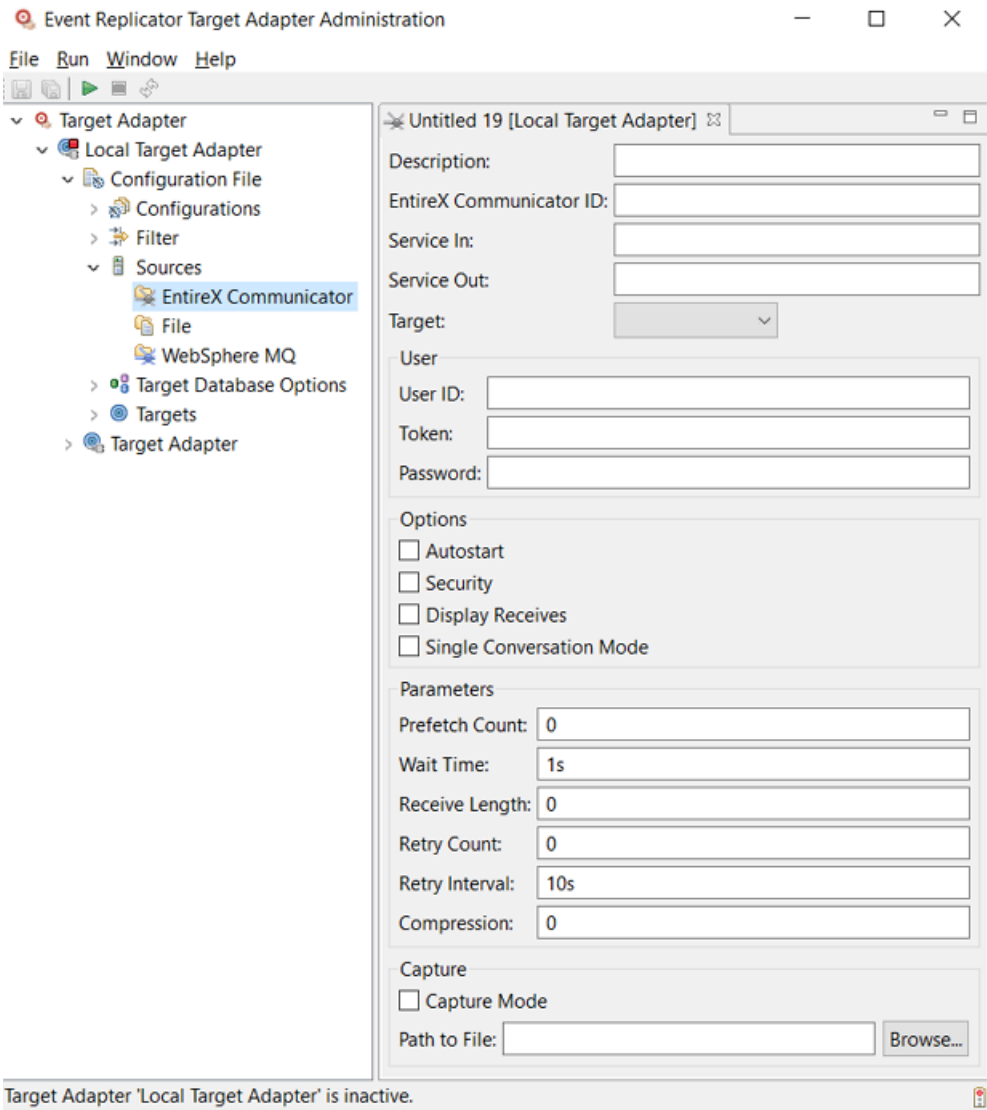
The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section.
- 3 Expand the **Sources** section.
- 4 Right-click on the **EntireX Communicator** section and then select **New** from the resulting drop-down menu.

Or:

Select the **New** command from the **File** menu and then **EntireX Communicator Source** from the resulting submenu.


A blank IBM EntireX source definition panel appears on the right side of the Administration tool window, as shown below:



- 5 Specify field values for the IBM EntireX source definition on the panel. Each field and option is described in the following table.

Entry Name	Description
Description	Specify a description for this IBM EntireX source definition.
Broker ID	<p>Specify the location of the IBM EntireX system that will be sending replicated data to Event Replicator Target Adapter. The format of this location must be in the format: <i>hostname:port</i> or <i>tcpip-address:port</i>.</p> <p>If the host name is the same as the current machine, only the port number need be specified.</p>
Service In	Specify the unique name of the IBM EntireX system that will be receiving replicated data from the Event Replicator Server. This name should be specified in the following format and is case-sensitive: <i>Broker class/server/service</i>
Service Out	Specify the unique name of the IBM EntireX system that will be used to send initial-state requests from Event Replicator Target Adapter to the Event Replicator Server. This name should be specified in the following format and is case-sensitive: <i>Broker class/server/service</i>
Target	Click on the arrow associated with this field and select the target definition to which replicated data received from this source should be sent.
User ID	<p>Specify the IBM EntireX user ID required for security purposes. This field is not optional.</p> <p>Note: A user ID is required, regardless of whether or not any security is used by IBM EntireX.</p>
Token	<p>Specify a unique ID for this source definition. This field is used to uniquely identify this IBM EntireX source when multiple sources are used. It is not optional.</p> <p>A maximum of 32 alphanumeric characters can be specified.</p> <p>Note: A token is required, regardless of whether or not any security is used by IBM EntireX.</p>
Password	<p>Specify the IBM EntireX password associated with the user ID specified in the <i>User ID</i> field.</p> <p>This option is only required if EntireX is running with security.</p>
Autostart	<p>Select this option (check it) to indicate that this IBM EntireX source definition should be automatically started when the Event Replicator Target Adapter is started.</p> <p>The default is to leave this option unselected (unchecked).</p>
Security	<p>Select this option (check it) to indicate that system security is activated for this source.</p> <p>When you select this option, it indicates that system security is activated; if you do not select this option, it indicates that system security is not activated.</p>
Display Receives	<p>Select this option (check it) to indicate that messages should be written to the log files indicating how many bytes were received from this source.</p> <p>The default is to leave this option unselected (unchecked).</p>

Entry Name	Description
Single Conversation Mode	Select this option if your EntireX Broker queues are configured as Destination and Input queues in the Event Replicator Server and are configured to use Single Conversation Mode. The default is to leave this option unselected (unchecked).
Prefetch Count	Specify the maximum number of records that should be prefetched for this source before Event Replicator Target Adapter processing occurs for those records. This field has no effect on queues configured for Single Conversation mode.
Wait Time	Indicate how long this source will wait for a message, in seconds. This is how long the source will wait to receive a message before it attempts to receive a different message. For IBM EntireX sources, the default value is "1s" (one second).
Receive Length	Specify the maximum message size that can be processed by this source. The default value is 32768 bytes.
Retry Count	Specify the number of times the Event Replicator Target Adapter should attempt to connect to the source if the connection is unavailable or interrupted. The default is "0" (zero) times.
Retry Interval	Specify the number of seconds this source should wait between attempts to reconnect to the source when the connection is down. The default is "10s" seconds.
Compression	Specify the IBM EntireX data compression level for data coming to the Event Replicator from this source. Valid compression levels are integers ranging from "0" (zero, or no compression) to "8" (maximum compression). The default is "0".
Capture Mode	Select this option (check it) to indicate that all incoming Event Replicator messages should be captured to a sequential file for debugging purposes. This file is stored with the other log files created for Event Replicator Target Adapter. For more information, read <i>Managing Event Replicator Target Adapter Log Files and Console Messages</i> , in the <i>Event Replicator Target Adapter User Guide</i> . Note: 1. Selecting this option may impact performance. 2. If the Event Replicator Target Adapter is started with capture turned on, any existing log file is deleted and a new one is created.
Path to File	Specify the fully-qualified name of the capture log file to which Event Replicator messages will be written if the Capture Mode option is selected. You can click on the Browse... button associated with this field to select the file.

- 6 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the IBM EntireX source definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

A **Save As** pop-up window appears.

Specify the name of the new IBM EntireX source definition on the **Save As** pop-up window and then click the **OK** button.

The definition is saved in the context file for the Event Replicator Target Adapter.

Defining a New WebSphere MQ Source Definition

You must define an WebSphere MQ source definitions for each unique WebSphere MQ system that the Event Replicator Target Adapter needs to use to access your RDBMS and to communicate with Event Replicator for Adabas via WebSphere MQ.

» To define a new WebSphere MQ source definition for Event Replicator Target Adapter:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

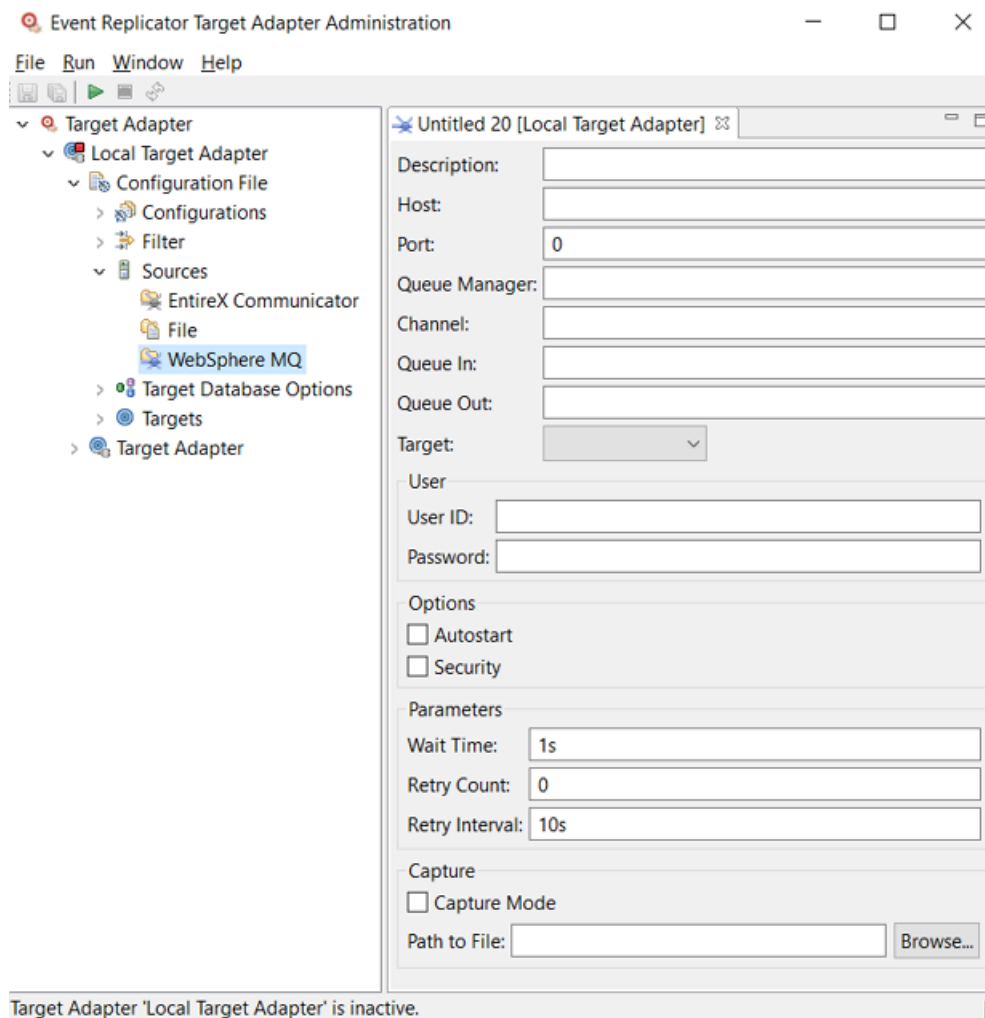
The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section.
- 3 Expand the **Sources** section.
- 4 Right-click on the **WebSphere MQ** section and then select **New** from the resulting drop-down menu.

Or:

Select the **New** command from the **File** menu and then **WebSphere MQ Source** from the resulting submenu.


A blank WebSphere MQ source definition panel appears on the right side of the Administration tool window, as shown below:



- 5 Specify field values for the WebSphere MQ source definition on the panel. Each field and option is described in the following table.

Entry Name	Description
Description	Specify a description for this WebSphere MQ source definition.
Host	Specify the case-sensitive WebSphere MQ host name.
Port	Specify the WebSphere MQ port number.
Queue Manager	Specify the case-sensitive WebSphere MQ queue manager name to which you are trying to connect.
Channel	Specify the case-sensitive WebSphere MQ channel name to which you are trying to connect.
Queue In	Specify the case-sensitive WebSphere MQ queue name you want to use to receive replicated data from the Event Replicator Server.

Entry Name	Description
Queue Out	Specify the case-sensitive WebSphere MQ queue name you want to use to send initial-state requests from Event Replicator Target Adapter to the Event Replicator Server.
Target	Click on the arrow associated with this field and select the target definition to which replicated data received from this source should be sent.
User ID	Specify the WebSphere MQ user ID required for security purposes.
Password	Specify the WebSphere MQ password associated with the user ID specified in the User ID field.
Autostart	Select this option (check it) to indicate that this WebSphere MQ source definition should be automatically started when the Event Replicator Target Adapter is started. The default is to leave this option unselected (unchecked).
Security	Select this option (check it) to indicate that system security is activated for this source. When you select this option, it indicates that system security is activated; if you do not select this option, it indicates that system security is not activated.
Wait Time	Indicate how long this source will wait for a message, in seconds. This is how long the source will wait to receive a message before it attempts to receive a different message. If you are using WebSphere MQ, set the wait time to a value greater than "0"; its default is "1s" (one second).
Retry Count	Specify the number of times of times the Event Replicator Target Adapter should attempt to connect to the source if the connection is unavailable or interrupted. The default is "0" (zero) times.
Retry Interval	Specify the number of seconds this source should wait between attempts to reconnect to the source when the connection is down. The default is "10s" seconds.
Capture Mode	Select this option (check it) to indicate that all incoming Event Replicator messages should be captured to a sequential file for debugging purposes. This file is stored with the other log files created for Event Replicator Target Adapter. For more information, read <i>Managing Event Replicator Target Adapter Log Files and Console Messages</i> , in the <i>Event Replicator Target Adapter User Guide</i> . Note: 1. Selecting this option may impact performance. 2. If the Event Replicator Target Adapter is started with capture turned on, any existing log file is deleted and a new one is created.
Path to File	Specify the fully-qualified name of the capture log file to which Event Replicator messages will be written if the Capture Mode option is selected. You can click on the Browse... button associated with this field to select the file.

- 6 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the WebSphere MQ source definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

A **Save As** pop-up window appears.

Specify the name of the new WebSphere MQ source definition on the **Save As** pop-up window and then click the **OK** button.

The definition is saved in the context file for the Event Replicator Target Adapter.

Specifying Global Source Trace Options

You can specify global trace options for your IBM EntireX and WebSphere MQ sources.



Note: You cannot specify global source trace options for a source type that has not been defined. For example, you cannot specify WebSphere MQ trace options if no WebSphere MQ sources have been defined.

- [Specifying Global IBM EntireX Trace Options](#)
- [Specifying Global WebSphere MQ Trace Options](#)

Specifying Global IBM EntireX Trace Options

➤ To specify global IBM EntireX trace options:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

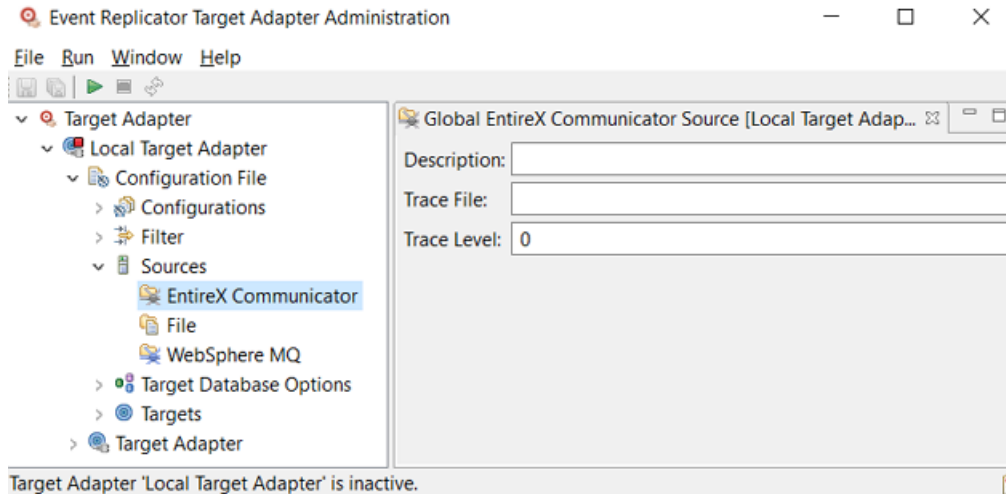
The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section.
- 3 Expand the **Sources** section.
- 4 Right-click on the **EntireX Communicator** section and then select **Open** from the resulting drop-down menu.

Or:


Double-click on **EntireX Communicator**.

The **Global EntireX Communicator Source** panel appears on the right side of the Administration tool window, as shown below:



- 5 Verify and update the values for the trace option definition panel, as described in the following table:

Field Name	Description
Description	Specify a description for the trace options.
Trace File	Specify the name of the trace file to be used.
Trace Level	<p>Specify the level of tracing that should be performed.</p> <p>Valid values range from "0" (no trace) to "5".</p> <p>If you request that source tracing occur, the trace file is created and is stored with the other log files created for Event Replicator Target Adapter. For more information, read <i>Managing Event Replicator Target Adapter Log Files and Console Messages</i>, in the <i>Event Replicator Target Adapter User Guide</i>.</p> <p>Note:</p> <ol style="list-style-type: none"> 1. Turning tracing on (by setting this field to a value greater than 0) may impact performance. 2. If the Event Replicator Target Adapter is started with trace turned on, any existing trace file is deleted and a new one is created.

- 6 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the trace settings.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

The trace settings are saved in the context file for the Event Replicator Target Adapter.

Specifying Global WebSphere MQ Trace Options

➤ To specify global WebSphere MQ trace options:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

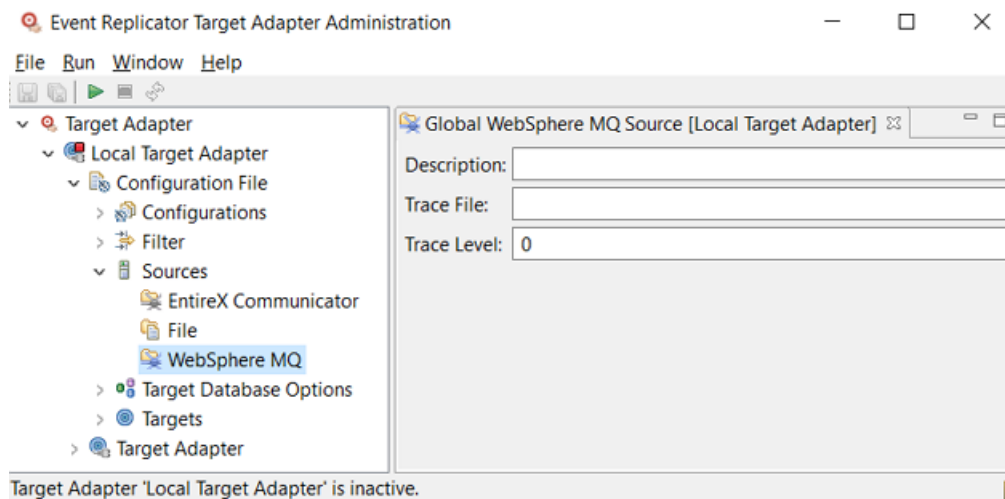
The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section.
- 3 Expand the **Sources** section.
- 4 Right-click on the **WebSphere MQ** section and then select **Open** from the resulting drop-down menu.

Or:


Double-click on **WebSphere MQ**.

The **Global WebSphere MQ Source** panel appears on the right side of the Administration tool window, as shown below:



- 5 Verify and update the values for the trace option definition panel, as described in the following table:

Field Name	Description
Description	Specify a description for the trace options.
Trace File	Specify the name of the trace file to be used.
Trace Level	<p>Specify the level of tracing that should be performed.</p> <p>Valid values range from "0" (no trace) to "5".</p> <p>If you request that source tracing occur, the trace file is created and is stored with the other log files created for Event Replicator Target Adapter. For more information, read <i>Managing Event Replicator Target Adapter Log Files and Console Messages</i>, in the <i>Event Replicator Target Adapter User Guide</i>.</p> <p>Note:</p> <ol style="list-style-type: none"> 1. Turning tracing on (by setting this field to a value greater than 0) may impact performance. 2. If the Event Replicator Target Adapter is started with trace turned on, any existing trace file is deleted and a new one is created.

- 6 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the trace settings.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

The trace settings are saved in the context file for the Event Replicator Target Adapter.

Modifying Existing Source Definitions

➤ To modify an existing source definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.


The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then the **Sources** section.

The high-level categorizations of the source definitions (**EntireX Communicator** and **WebSphere MQ**) appear.

- 3 Locate the source definition in the **EntireX Communicator** or **WebSphere MQ** categorization, as appropriate and double-click on the name.

The definition opens on the right side of the Administration tool.

- 4 Modify the values of the source definition as described in [Defining a New IBM EntireX Source Definition](#) and [Defining a New WebSphere MQ Source Definition](#), elsewhere in this section.
- 5 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the source definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

The definition is saved in the context file for the Event Replicator Target Adapter.

Renaming Existing Source Definitions

➤ To rename an existing source definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then the **Sources** section.


The high-level categorizations of the source definitions (**EntireX Communicator** and **WebSphere MQ**) appear.

- 3 Locate the source definition in the **EntireX Communicator** or **WebSphere MQ** categorization and right-click on the name.

A drop-down menu appears providing you with several options.

- 4 Select the **Rename** option on the drop-down menu.

A **Rename** dialog for the source definition appears.

- 5 Supply a new name for the source definition in the input field and click **OK**.
- 6 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the source definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

The definition is saved in the context file for the Event Replicator Target Adapter.

Deleting Existing Source Definitions

➤ To delete an existing source definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Configuration File** section and then the **Sources** section.

The high-level categorizations of the source definitions (**EntireX Communicator** and **WebSphere MQ**) appear.

- 3 Locate the source definition in the **EntireX Communicator** or **WebSphere MQ** categorization and right-click on the name.

A drop-down menu appears providing you with several options.

- 4 Select the **Delete** option on the drop-down menu.

A dialog prompting you to verify that you really want to delete the source definition appears.

- 5 Select **Yes** to delete the definition.

Configuring Source Definitions for Adabas Analytics Collector MF

The Adabas Analytics Collector MF supports three types of sources through which the analytics data can be sent to the targets: IBM EntireX, WebSphere MQ (MQSeries) and Event Replicator Target Adapter. Before you can use the Adabas Analytics Collector MF, you must set up a *source definition* for every unique IBM EntireX, Target Adapter or WebSphere MQ data source you will be using to send your analytics data for your Adabas Analytics Collector MF targets.

- [Defining a New webMethods EntireX Adapter Source Definition](#)
- [Defining a New webMethods EntireX Communicator Source Definition](#)
- [Defining a New Target Adapter Source Definition](#)
- [Setting the Monitor Interval for Target Adapter Sources](#)
- [Defining a New WebSphere MQ Source Definition](#)
- [Modifying Existing Source Definitions](#)
- [Renaming Existing Source Definitions](#)
- [Deleting Existing Source Definitions](#)



Note: You will need to restart the Adabas Analytics Collector MF to fully process any additions or changes made to Adabas Analytics Collector MF configuration definitions in the Administration tool.

Defining a New webMethods EntireX Adapter Source Definition

You have to define a webMethods EntireX Adapter source definition for each unique webMethods EntireX Adapter system that the Adabas Analytics Collector MF needs to use to access your target and to communicate with Event Replicator for Adabas via webMethods EntireX Adapter.

➤ To define a new webMethods EntireX Adapter source definition for Adabas Analytics Collector MF:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

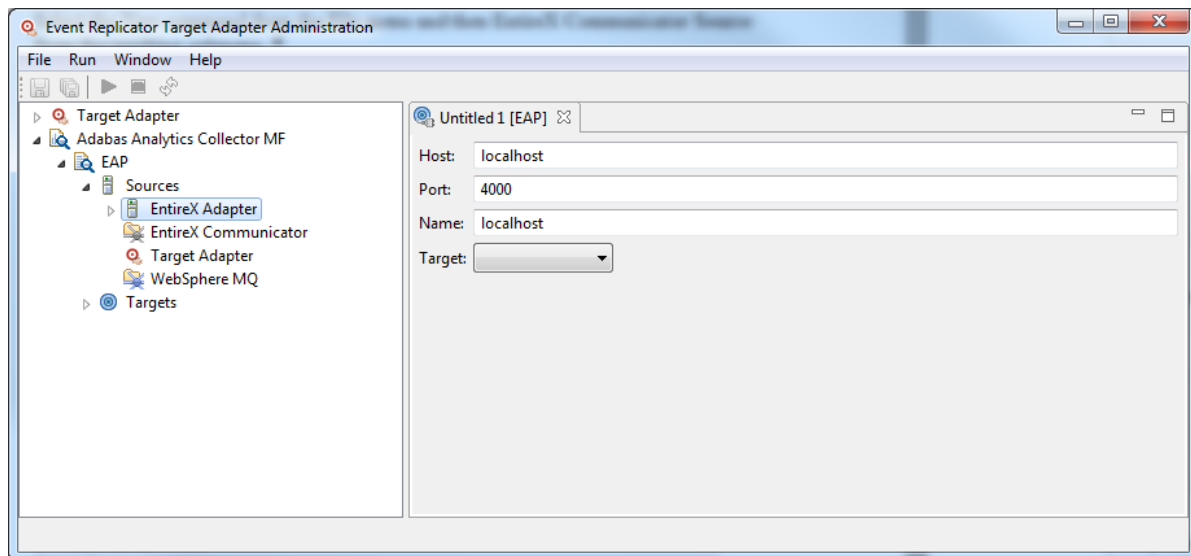
The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Adabas Analytics Collector MF** section.
- 3 Expand the environment section.
- 4 Expand the **Sources** section.
- 5 Right-click on the **EntireX Adapter** section and then select **New** from the resulting drop-down menu.

Or:


Select the **New** command from the **File** menu and then **EntireX Adapter Source** from the resulting submenu.

A blank webMethods EntireX Adapter source definition panel appears on the right side of the Administration tool window, as shown below:



- 6 Specify field values for the webMethods EntireX Adapter source definition on the panel. Each field and option is described in the following table.

Entry Name	Description
Host	Specify the host of the webMethods EntireX Adapter system that will be sending analytics data to Adabas Analytics Collector MF.
Port	Specify the port of the webMethods EntireX Adapter system that will be sending analytics data to Adabas Analytics Collector MF.
Name	Specify the name of the webMethods EntireX Adapter system that will be sending analytics data to Adabas Analytics Collector MF.
Target	Click on the arrow associated with this field and select the target definition to which replicated data received from this source should be sent.

- 7 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the webMethods EntireX Adapter source definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

A **Save As** pop-up window appears.

Specify the name of the new webMethods EntireX Adapter source definition on the **Save As** pop-up window and then click the **OK** button.

The definition is saved in the configuration file for the Adabas Analytics Collector MF.

Defining a New webMethods EntireX Communicator Source Definition

You have to define a webMethods EntireX Communicator source definition for each unique webMethods EntireX Communicator system that the Adabas Analytics Collector MF needs to use to access your target and to communicate with Event Replicator for Adabas via webMethods EntireX Communicator.

➤ To define a new webMethods EntireX Communicator source definition for Adabas Analytics Collector MF:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Adabas Analytics Collector MF** section.
- 3 Expand the environment section.

- 4 Expand the **Sources** section.
- 5 Right-click on the **EntireX Communicator** section and then select **New** from the resulting drop-down menu.

Or:


Select the **New** command from the **File** menu and then **EntireX Communicator Source** from the resulting submenu.

A blank webMethods EntireX Communicator source definition panel appears on the right side of the Administration tool window, as shown below:

- 6 Specify field values for the webMethods EntireX Communicator source definition on the panel. Each field and option is described in the following table.

Entry Name	Description
Host	Specify the host of the webMethods EntireX Communicator system that will be sending analytics data to Adabas Analytics Collector MF.
Port	Specify the port of the webMethods EntireX Communicator system that will be sending analytics data to Adabas Analytics Collector MF.
Class	Specify the class of the webMethods EntireX Communicator system that will be sending analytics data to Adabas Analytics Collector MF.
Server	Specify the server name of the webMethods EntireX Communicator system that will be sending analytics data to Adabas Analytics Collector MF.
Service	Specify the service of the webMethods EntireX Communicator system that will be sending analytics data to Adabas Analytics Collector MF.

Entry Name	Description
Target	Click on the arrow associated with this field and select the target definition to which replicated data received from this source should be sent.
Wait Time	Indicate how long this source will wait for a message, in seconds. This is how long the source will wait to receive a message before it attempts to receive a different message. For webMethods EntireX Communicator sources, the default value is "1s" (one second).
Receive Length	Specify the maximum message size that can be processed by this source. Entering as 0 uses the Adabas Analytics Collector MF default value of 32767.
Retry Count	Specify the number of times this source should attempt to connect to the target RDBMS database or web service if the connection to the connection is down. The default is "0" (zero) times, meaning connections will not be retried if there is a failed connect attempt.
Retry Interval	Specify the number of seconds this source should wait between attempts to reconnect to the target RDBMS database or web service when the connection is down. The default is "10s" seconds.
Compression	Specify the webMethods EntireX Communicator data compression level for data coming to the Event Replicator from this source. Valid compression levels are integers ranging from "0" (zero, or no compression) to "8" (maximum compression). The default is "0".

- 7 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the webMethods EntireX Communicator source definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

A **Save As** pop-up window appears.

Specify the name of the new webMethods EntireX Communicator source definition on the **Save As** pop-up window and then click the **OK** button.

The definition is saved in the configuration file for the Adabas Analytics Collector MF.

Defining a New Target Adapter Source Definition

You have to define a Target Adapter source definition for each unique Event Replicator Target Adapter that the Adabas Analytics Collector MF needs to use to access your target and to communicate with the Target Adapter.

➤ To define a new Target Adapter source definition for Adabas Analytics Collector MF:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

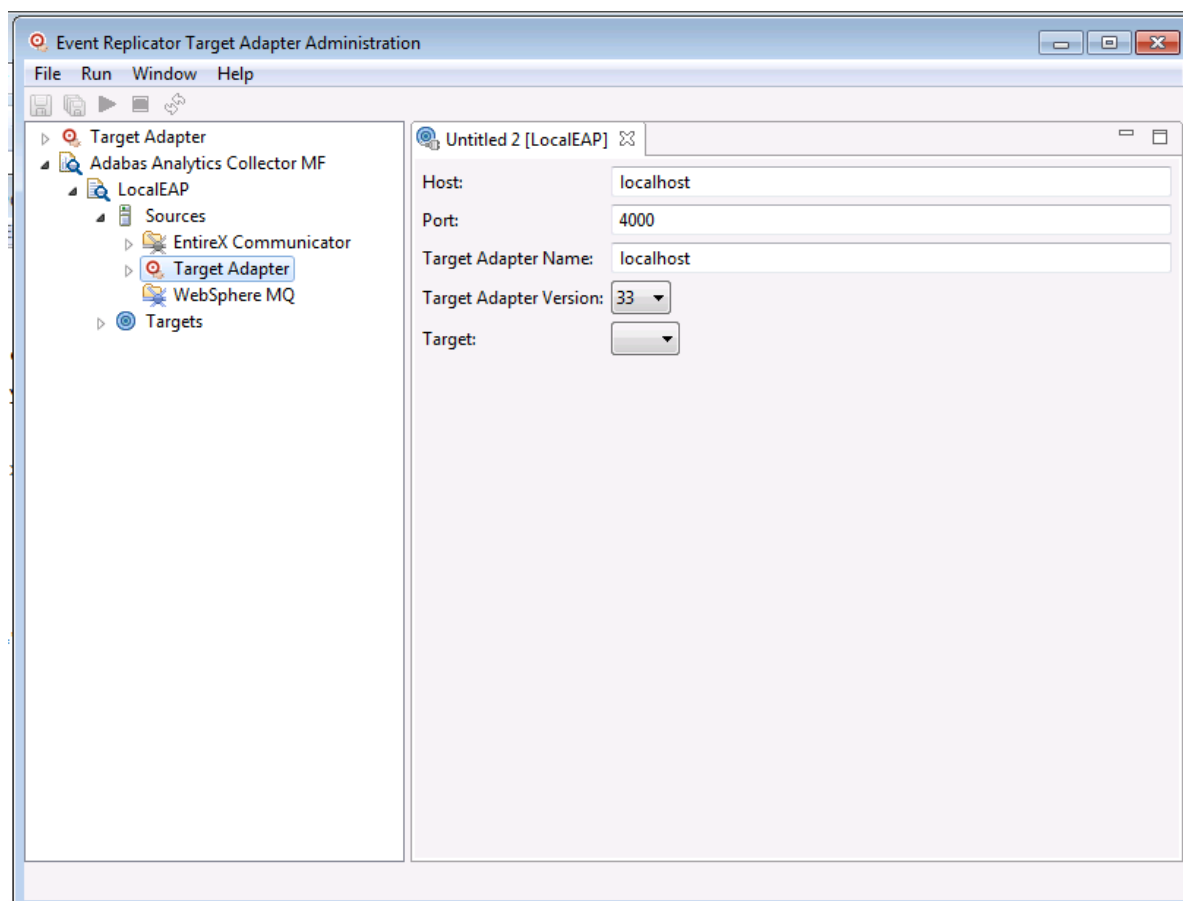
The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Adabas Analytics Collector MF** section.
- 3 Expand the environment section.
- 4 Expand the **Sources** section.
- 5 Right-click on the **Target Adapter** section and then select **New** from the resulting drop-down menu.

Or:


Select the **New** command from the **File** menu and then **Target Adapter Source** from the resulting submenu.

A blank Target Adapter source definition panel appears on the right side of the Administration tool window, as shown below:



- 6 Specify field values for the Target Adapter source definition on the panel. Each field and option is described in the following table.

Entry Name	Description
Host	Specify the case-sensitive Target Adapter host name.
Port	Specify the Target Adapter JMX port number. The default of 4000 is given.
Target Adapter Name	Specify the name for the Target Adapter to distinguish in on the target.
Target Adapter Version	Specify the version of the Target Adapter.
Target	Click on the arrow associated with this field and select the target definition to which replicated data received from this source should be sent.

- 7 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the Target Adapter source definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

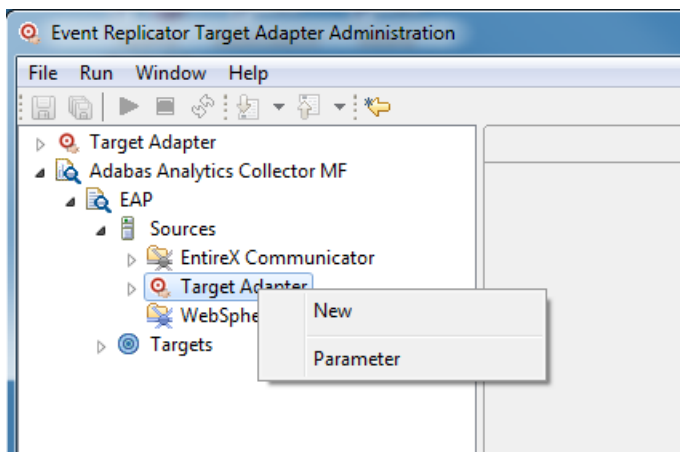
A **Save As** pop-up window appears.

Specify the name of the new Target Adapter source definition on the **Save As** pop-up window and then click the **OK** button.

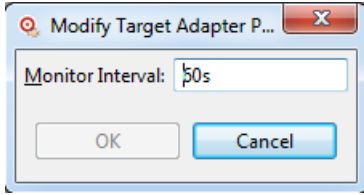
The definition is saved in the configuration file for the Adabas Analytics Collector MF

Setting the Monitor Interval for Target Adapter Sources


The default monitoring interval for the collection of metrics from Target Adapter sources is 5 seconds. This can be overridden by right-clicking the **Adabas Analytics Collector MF > CollectorName > Sources > Target Adapter** node in the display and selecting **Parameter**:



Then setting the interval as follows:



The interval should be specified as a number followed by "s", indicating the number of seconds elapsed between each collection of metrics from the Target Adapter.

 **Note:** This parameter setting is global for all Target Adapter sources.

Defining a New WebSphere MQ Source Definition

You have to define a WebSphere MQ source definition for each unique WebSphere MQ system that the Adabas Analytics Collector MF needs to use to access your target and to communicate with Event Replicator for Adabas via WebSphere MQ.

➤ To define a new WebSphere MQ source definition for Adabas Analytics Collector MF:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

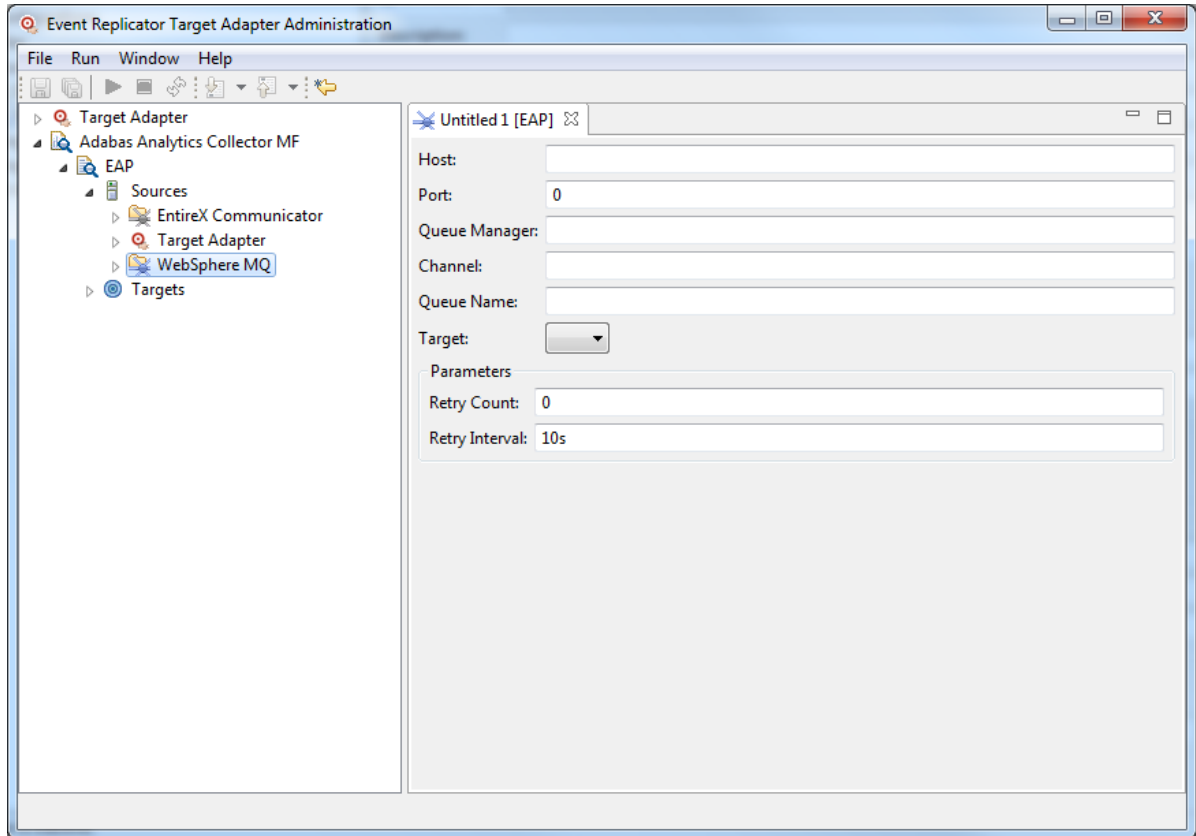
The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Adabas Analytics Collector MF** section.
- 3 Expand the environment section.
- 4 Expand the **Sources** section.
- 5 Right-click on the **WebSphere MQ** section and then select **New** from the resulting drop-down menu.

Or:


Select the **New** command from the **File** menu and then **WebSphere MQ Source** from the resulting submenu.

A blank WebSphere MQ source definition panel appears on the right side of the Administration tool window, as shown below:



- 6 Specify field values for the WebSphere MQ source definition on the panel. Each field and option is described in the following table.

Entry Name	Description
Host	Specify the case-sensitive WebSphere MQ host name.
Port	Specify the WebSphere MQ port number.
Queue Manager	Specify the case-sensitive WebSphere MQ queue manager name to which you are trying to connect.
Channel	Specify the case-sensitive WebSphere MQ channel name to which you are trying to connect.
Queue Name	Specify the case-sensitive WebSphere MQ queue name you want to use to receive replicated data from the Event Replicator Server.
Target	Click on the arrow associated with this field and select the target definition to which replicated data received from this source should be sent.
Retry Count	Specify the number of times this source should attempt to connect to the target if the connection to the connection is down. The default is "0" (zero) times.
Retry Interval	Specify the number of seconds this source should wait between attempts to reconnect to the target when the connection is down. The default is "10s" seconds.

- 7 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the WebSphere MQ source definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

A **Save As** pop-up window appears.

Specify the name of the new WebSphere MQ source definition on the **Save As** pop-up window and then click the **OK** button.

The definition is saved in the configuration file for the Adabas Analytics Collector MF.

Modifying Existing Source Definitions

➤ To modify an existing source definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.


- 2 On the left side of the Administration tool window, expand the **Adabas Analytics Collector MF** node, environment node and then the **Sources** section.

The high-level categorizations of the source definitions (**EntireX Communicator**, **Target Adapter** and **WebSphere MQ**) appear.

- 3 Locate the source definition in the **EntireX Communicator**, **Target Adapter** or **WebSphere MQ** categorization, as appropriate and double-click on the name.

The definition opens on the right side of the Administration tool.

- 4 Modify the values of the source definition as described in [Defining a New IBM EntireX Source Definition](#), [Defining a New Target Adapter Source Definition](#) and [Defining a New WebSphere MQ Source Definition](#), elsewhere in this section.

- 5 Once all fields have been specified satisfactorily, click the **Save** button () on the toolbar to save the source definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

The definition is saved in the configuration file for the Adabas Analytics Collector MF.

Renaming Existing Source Definitions

➤ To rename an existing source definition:

- 1 Start up the Administration tool, as described in *Starting the Administration Tool*, elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Adabas Analytics Collector MF** node, environment node and then the **Sources** section.

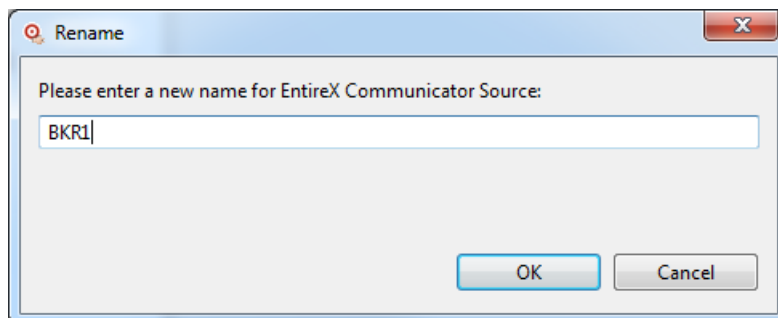
The high-level categorizations of the source definitions (**EntireX Communicator**, **Target Adapter** and **WebSphere MQ**) appear.

- 3 Locate the source definition in the **EntireX Communicator**, **Target Adapter** or **WebSphere MQ** categorization and right-click on the name.

A drop-down menu appears providing you with several options.

- 4 Select the **Rename** option on the drop-down menu.

A **Rename** dialog for the source definition appears. Here is sample dialog for renaming a IBM EntireX source definition:



- 5 Supply a new name for the source definition in the space provided and click **OK**.
- 6 Once all fields have been specified satisfactorily, click the **Save** button (💾) on the toolbar to save the source definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

The definition is saved in the configuration file for the Adabas Analytics Collector MF.

Deleting Existing Source Definitions

➤ To delete an existing source definition:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 On the left side of the Administration tool window, expand the **Adabas Analytics Collector MF** node, environment node and then the **Sources** section.

The high-level categorizations of the source definitions (**EntireX Communicator**, **Target Adapter** and **WebSphere MQ**) appear.

- 3 Locate the source definition in the **EntireX Communicator**, **Target Adapter** or **WebSphere MQ** categorization and right-click on the name.

A drop-down menu appears providing you with several options.

- 4 Select the **Delete** option on the drop-down menu.

A dialog prompting you to verify that you really want to delete the source definition appears.

- 5 Select **Yes** to delete the definition.

Verifying Your Source Definition Connections

Event Replicator Target Adapter provides two commands (batch utilities) you can use to verify the connection between your environment and the source definition.



Caution: Do not run these commands if Event Replicator Target Adapter is already started. If it is started, stop it before running these commands. In addition, both of these commands will drain the input queue if anything is in it.

These commands are located in the *bin* directory, wherever the Event Replicator Target Adapter source code and program files are installed.

- Use the `etbivp` command to verify the connection between your environment and IBM EntireX.
- Use the `mqsiwp` command to verify the connection between your environment and WebSphere MQ.

At a command prompt, navigate to the *bin* directory and enter the appropriate command, using one of the following syntaxes:

```
etbivp brokerID class/server/service tracelevel (scm userid token password)
```

or

```
mqsivp queuemgr host port channel queue tracelevel
```

where:

- *brokerID* is the URL (*host:port*) of the IBM EntireX Broker system to which you are trying to connect.
- *class/server/service* is the case-sensitive class, server, and service name of the IBM EntireX Broker to which you are trying to connect.
- *queuemgr* is the case-sensitive WebSphere MQ queue manager name to which you are trying to connect.
- *host* is the WebSphere MQ host name.
- *port* is the WebSphere MQ port number.
- *channel* is the case-sensitive WebSphere MQ channel to which you are trying to connect.
- *queue* is the case-sensitive WebSphere MQ queue name to which you are trying to connect.
- *tracelevel* is the trace level that should be used for the connection attempt. Valid values range from "0" (no trace) through "5". The default is "0".

Optional for *etbiwp* if the EntireX Broker queue is configured for Single Conversation Mode:

- *scm* indicates you are connecting to an input queue configured for Single Conversation Mode.
- *userid* is the Broker userid.
- *token* is the user token (Single Conversation Mode).
- *password* is an optional password if the EntireX Broker is running in secured mode.

If errors occur when you run *etbiwp* or *mqsivp*, rerun them using a trace level setting of "3". Then submit the trace log to your IBM EntireX or WebSphere MQ administrators to identify the problem. For more information about Event Replicator Target Adapter log files, read *Managing Event Replicator Target Adapter Log Files and Console Messages*, in the *Event Replicator Target Adapter User Guide*.

Reviewing and Dynamically Altering Definitions

You can review all of the configuration definitions you have specified in the Administration tool. In addition, you can dynamically alter some of them while the Event Replicator Target Adapter is running; there is no need to restart the Event Replicator Target Adapter to pick up these changes.



Note: Some configuration definitions can only be altered in the configuration area of the Administration tool. Changes to these settings require that you restart the Event Replicator Target Adapter to fully process the changes. For more information, read *Restarting the Event Replicator Target Adapter*, in the *Event Replicator Target Adapter User Guide*.

➤ To review configuration definitions in the Administration tool and optionally modify the editable fields:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

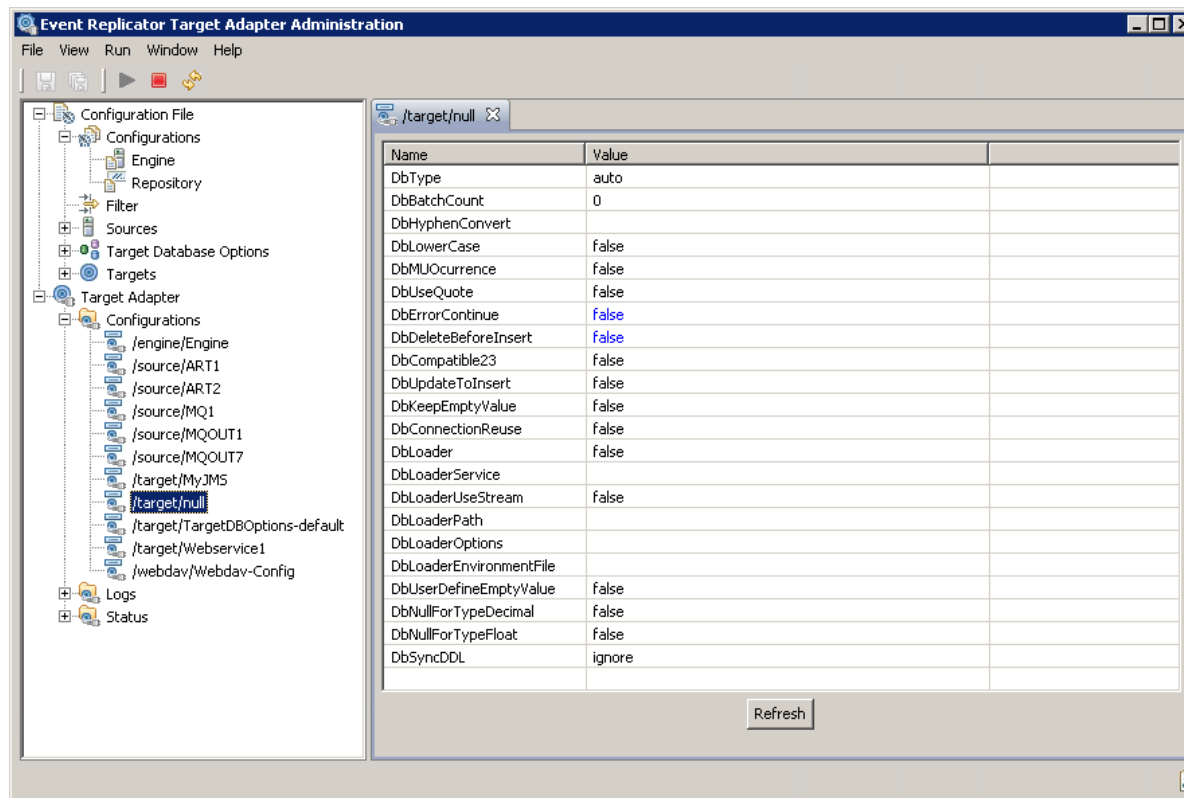
- 2 Verify that the Event Replicator Target Adapter is started. If is not, start it now. For more information, read *Starting the Event Replicator Target Adapter*, in the *Event Replicator Target Adapter User Guide*
- 3 On the left side of the Administration tool window, expand the **Target Adapter** section and then expand the **Configurations** section.


The configuration definitions are listed under **Configurations**.

- 4 Click on any definition under **Configurations**

The specifications for configuration definition you selected appear on the right side of the window, where you can review them.

Any fields on the right side of the window that appear in bright blue can be dynamically altered. For example, in the following window the `DbErrorContinue` and `DbDeleteBeforeInsert` properties can be dynamically altered.



- 5 Optionally, modify any fields you want that appear in bright blue on the right side of the window. When all your updates are made, click the **Save** button () on the toolbar to save the configuration definition.

Or:

Select the **Save** command on the **File** menu of the Administration tool.

The configuration definition is saved in the context file for the Event Replicator Target Adapter.

Reviewing Log Files

You can review all of the Event Replicator Target Adapter log files located in the `\logs` subdirectory wherever your Event Replicator Target Adapter program data files are installed.

» To review log files in the Administration tool:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 Verify that the Event Replicator Target Adapter is started. If is not, start it now. For more information, read *Starting the Event Replicator Target Adapter*, in the *Event Replicator Target Adapter User Guide*.
- 3 On the left side of the Administration tool window, expand the **Target Adapter** section and then expand the **Logs** section.

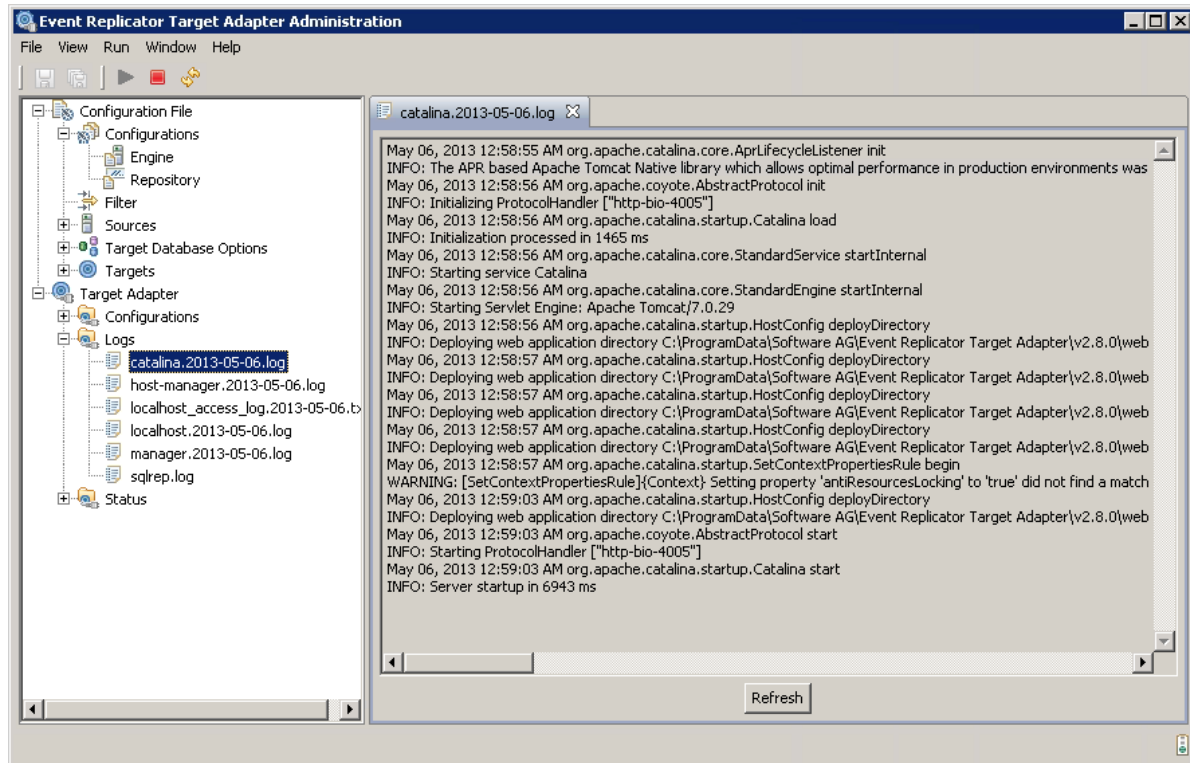
The log files are listed under **Logs**.

- 4 Click on any log file under **Logs**

The contents of the log file appear on the right side of the screen. The following example shows one selected log file's contents on the right side of the screen:



Note: You can use the **Refresh** button to refresh the display.



Reviewing Event Replicator Target Adapter Statistics

As records are received and processed by the Event Replicator Target Adapter, statistics are passively updated. When the Event Replicator Target Adapter shuts down, the final statistics for the session are written to a log file with a name in the format `ArtMetrics_yyyymmdd_hhmmss.log`, where `yyyymmdd_hhmmss` is the date and time that the log file is written. You can review all of the Event Replicator Target Adapter log files located in the `\logs` subdirectory wherever your Event Replicator Target Adapter program data files are installed.

You can also review the ongoing Event Replicator Target Adapter processing statistics from the Administration tool.

➤ To review the ongoing Event Replicator Target Adapter processing statistics in the Administration tool:

- 1 Start up the Administration tool, as described in [Starting the Administration Tool](#), elsewhere in this guide.

The Administration tool window appears.

- 2 Verify that the Event Replicator Target Adapter is started. If is not, start it now. For more information, read *Starting the Event Replicator Target Adapter*, in the *Event Replicator Target Adapter User Guide*.

- 3 On the left side of the Administration tool window, expand the **Target Adapter** section and then expand the **Status** section.

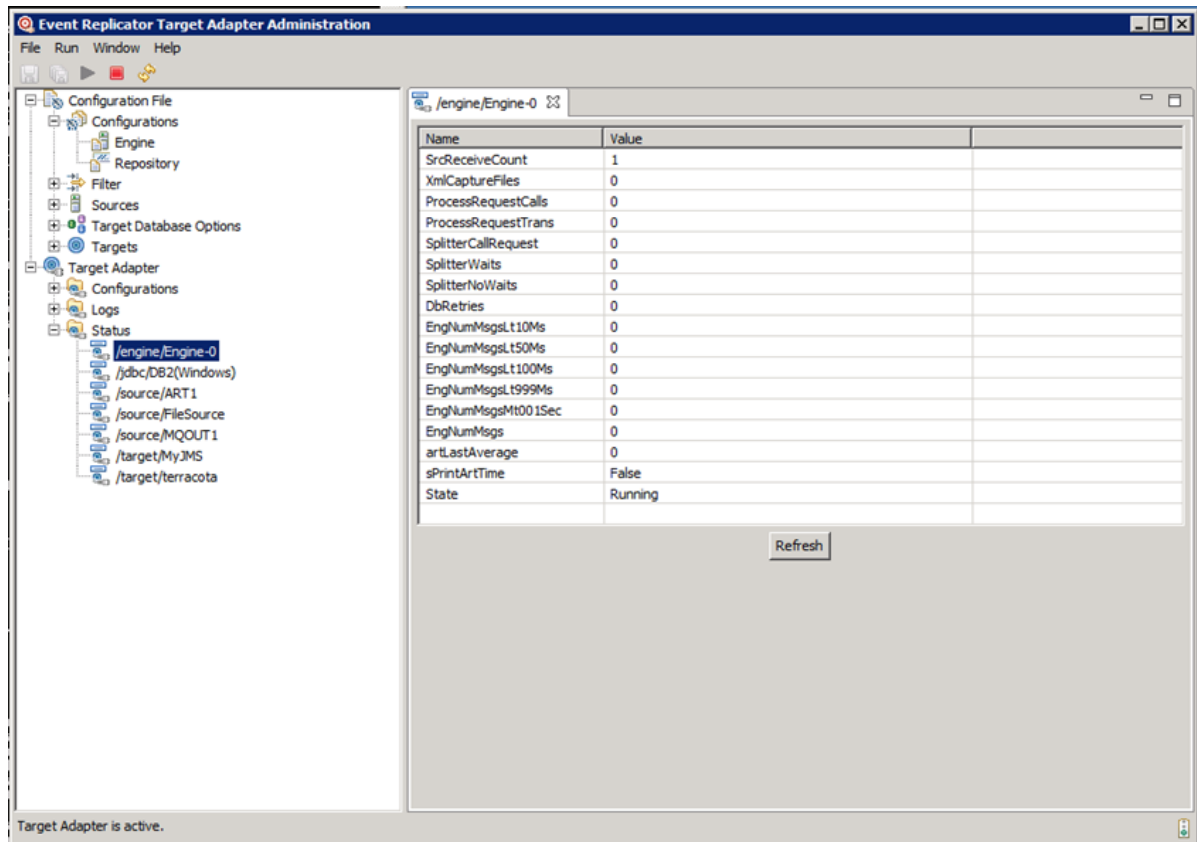
The statistics areas are listed under **Status**.

- 4 Click on any statistic area under **Status**

The processing statistics for that area appear on the right side of the screen. The following example shows the status of the configuration engine on the right side of the screen:



Note: You can use the **Refresh** button to refresh the display.



The following table provides lists each of the statistics collected, with a brief explanation of each.



Note: This list may not be complete or comprehensive. Changes to the statistics collected may change at any time.

Category Type	Statistic	Description
Engine (/engine/...)	artLastAverage	<p>Event Replicator Target Adapter average processing time.</p> <p>This value is the average of the backend Event Replicator Target Adapter internal processing time. It is expressed in milliseconds. There are two parts of such backend processing time:</p> <ul style="list-style-type: none"> ■ The first part is RDBMS-related elapsed time, including JDBC SQL statement execution time and database metadata retrieval time. ■ The second part is the Event Replicator Target Adapter internal processing time. <p>The value of artLastAverage is calculated as the total time spent in backend Event Replicator Target Adapter internal processing during the last minute divided by the number of backend calls occurring in that minute.</p>
	DbRetries	The number of database retry attempts.
	EngNumMsgs	Total number of messages processed.
	EngNumMsgsLt100Ms	The number of messages processed in under 100 milliseconds
	EngNumMsgsLt10Ms	The number of messages processed in under 10 milliseconds.
	EngNumMsgsLt50Ms	The number of messages processed in under 50 milliseconds.
	EngNumMsgsLt999Ms	The number of messages processed in under 999 milliseconds.
	EngNumMsgsMt001Sec	The number of messages processed in over 001 second.
	ProcessRequestCalls	The number of call requests processed.
	ProcessRequestTrans	The number of transaction requests processed.
	SplitterCallRequest	The number of asynchronous process calls split.
	SplitterNoWaits	The number of splitter calls completed with no waits.
	SplitterWaits	The number of splitter calls that waited for a resource.

Category Type	Statistic	Description
	sPrintArtTime	Event Replicator Target Adapter display statistics time.
	SrcReceiveCount	The number of receives issued.
	State	The engine state.
	XmlCaptureFiles	The number of capture files written.
File Source (/source/sourcename)	FileId	The file ID.
	FileLastException	The last exception time.
	FileNumBytesReceived	The number of bytes received.
	FileNumCommits	The number of commits.
	FileNumExceptions	The number of exceptions.
	FileNumMsgs	The number of messages.
	FileNumRollbacks	The number of rollbacks.
	FileProcessingTime	The processing time.
	FileTimeException	The last exception time.
	FileTimeShutdown	The shutdown time.
	FileTimeStart	The start time.
	State	The current state.
	TransactionInfo	Last transaction information.
Heartbeat (/heartbeat/destinationname)	artTime	Time when message arrives at ART.
	artTimeMilli	artTime in milliseconds.
	creationTime	Time the URBS was created.
	ctimeMilli	creationTime in milliseconds.
	destination	Destination Name.
	destinationType	Destination Type.
	eventId	Event Identification.
	hbtmMilli	InfoTime in milliseconds.
	hbtnMilli	newestItem time in milliseconds.
	hbtoMilli	oldestItem time in milliseconds.
	hsdrMilli	readFromSlog time in milliseconds .
	hsdwMilli	readFromSlog time in milliseconds.
	infoTime	Timestamp when Unit-of-Work status obtained from Entire Broker.
	latency	Heartbeat Latency - time span between creationTime and artTime.
	maxBytes	Max. value of bytes in one UOW- determined at infoTime *).

Category Type	Statistic	Description
	maxMessages	Max. value of messages in one UOW - determined at infoTime *).
	newestItem	Timestamp when newest item was stored in message queue - determined at infoTime *).
	nucleusId	Nucleus ID.
	numberBytes	Current number of bytes on queue - determined at infoTime *).
	numberHeartbeats	Total Number of Heartsbeats.
	numberMessages	Current number of messages on queue - determined at infoTime *).
	numberUows	Current number of UOWs on queue - determined at infoTime *).
	oldestItem	Timestamp when oldest item was stored in message queue - determined at infoTime *).
	processingTime	Heartbeat processing time - time span between creationTime and infoTime or zero if not a Broker destination.
	readFromSlog	Timestamp when heartbeat was read from SLOG **).
	replicatorId	Replicator ID.
	slogTime	Time on SLOG **).
	writtenToSlog	Timestamp when heartbeat was written to SLOG **)
Latency (/latency/source.target.subscription)	source	Source Name
	target	Target Name
	subscription	Subscription Name
	messageSize	Total Size of all Messages
	numberMessages	Total Number of Messages
	latencyReplicator	Total Latency of the Replicator
	latencyMiddleware	Total Latency of the Middleware
	latencyTargetAdapter	Total Latency of the Target Adapter
RDBMS Target (/jdbc/targetname)	artExecLt10Ms	Event Replicator Target Adapter processes executed in under 10 milliseconds.
	artExecLt50Ms	Event Replicator Target Adapter processes executed in under 50 milliseconds.
	artExecLt100Ms	Event Replicator Target Adapter processes executed in under 100 milliseconds.
	artExecLt999Ms	Event Replicator Target Adapter processes executed in under 999 milliseconds.

Category Type	Statistic	Description
	artExecMt001Sec	Event Replicator Target Adapter processes executed in over 1 second.
	artLastAverage	<p>Event Replicator Target Adapter average processing time.</p> <p>This value is the average of the backend Event Replicator Target Adapter internal processing time. It is expressed in milliseconds. There are two parts of such backend processing time:</p> <ul style="list-style-type: none"> ■ The first part is RDBMS-related elapsed time, including JDBC SQL statement execution time and database metadata retrieval time. ■ The second part is the Event Replicator Target Adapter internal processing time. <p>The value of artLastAverage is calculated as the total time spent in backend Event Replicator Target Adapter internal processing during the last minute divided by the number of backend calls occurring in that minute.</p>
	DbName	The database name.
	DbVersion	The database version.
	DbUrl	The database URL.
	DbDriverClass	The database driver class.
	DbDriverName	The database driver name.
	DbDriverVersion	The database driver version.
	dbExecLt10Ms	JDBC processes executed in under 10 milliseconds.
	dbExecLt50Ms	JDBC processes executed in under 50 milliseconds.
	dbExecLt100Ms	JDBC processes executed in under 100 milliseconds.
	dbExecLt999Ms	JDBC processes executed in under 999 milliseconds.
	dbExecMt001Sec	JDBC processes executed in over 1 second.
	DbUserName	The database user name.
	Commits	The number of commits to this database.
	Connections	The number of connections to this database.
	ConnectionsReused	The number of connections reused.

Category Type	Statistic	Description
	lastAverage	<p>JDBC average processing time.</p> <p>Event Replicator Target Adapter records the time it takes to execute SQL statements via JDBC. It then calculates the JDBC average processing time by dividing the total JDBC elapsed time (in milliseconds) for all requests during the last minute by the total number of JDBC requests in milliseconds in the last minute.</p> <p>This value is only updated when there are JDBC function calls. It is usually zero unless SQL statements are being heavily processed.</p> <p>Note: A single JDBC function call may contain more than one SQL statement.</p>
	sFakeIUD	The number of fake DB insert/update/delete attempts.
	sPrintArtTime	Event Replicator Target Adapter display backend statistics time.
	Statements	The number of statements for this database.
	TimeLastConnection	The time of last connection.
	TransactionTime	Total RDBMS time.
Subscription	ProcessRequestCalls	The number of transaction requests.
	TransactionInfo	Last transaction information.
Table (/table/tablename)	Table	Table Name
	Target	Target Name
	Inserts	Table Inserts
	Updates	Table Updates
	Deletes	Table Deletes
	TotalCommands	Table Total Commands
	dbInsertExecLt10Ms	JDBC Insert Execution Time <10Ms
	dbInsertExecLt50Ms	JDBC Insert Execution Time <50Ms
	dbInsertExecLt100Ms	JDBC Insert Execution Time <100Ms
	dbInsertExecLt999Ms	JDBC Insert Execution Time <999Ms
	dbInsertExecLt060Sec	JDBC Insert Execution Time < 60s
	dbInsertExecMt001Min	JDBC Insert Execution Time >1 Min
	dbUpdateExecLt10Ms	JDBC Update Execution Time <10Ms
	dbUpdateExecLt50Ms	JDBC Update Execution Time <50Ms
	dbUpdateExecLt100Ms	JDBC Update Execution Time <100Ms

Category Type	Statistic	Description
	dbUpdateExecLt999Ms	JDBC Update Execution Time <999Ms
	dbUpdateExecLt060Sec	JDBC Update Execution Time < 60s
	dbUpdateExecMt001Min	JDBC Update Execution Time >1 Min
	dbDeleteExecLt10Ms	JDBC Delete Execution Time <10Ms
	dbDeleteExecLt50Ms	JDBC Delete Execution Time <50Ms
	dbDeleteExecLt100Ms	JDBC Delete Execution Time <100Ms
	dbDeleteExecLt999Ms	JDBC Delete Execution Time <999Ms
	dbDeleteExecLt060Sec	JDBC Delete Execution Time < 60s
	dbDeleteExecMt001Min	JDBC Delete Execution Time >1 Min
IBM EntireX Source (/source/sourcename)	BrkExceptionNum	The number of exceptions.
	BrkExceptionTime	The last exception time.
	BrkExceptionType	The last exception type.
	BrkId	The IBM EntireX Broker ID.
	BrkInfo	IBM EntireX Broker information.
	BrkNumBytesReceived	The number of bytes received.
	BrkNumBytesSent	The number of bytes sent.
	BrkNumCommits	The number of commits performed.
	BrkNumMsgs	The number of messages processed.
	BrkNumMsgsLt100Ms	The number of messages received in under 100 milliseconds.
	BrkNumMsgsLt10Ms	The number of messages received in under 10 milliseconds.
	BrkNumMsgsLt50Ms	The number of messages received in under 50 milliseconds.
	BrkNumMsgsLt999Ms	The number of messages received in under 999 milliseconds.
	BrkNumMsgsMt001Sec	The number of messages received in over 001 second.
	BrkNumPrefetchMax	The maximum number of prefetched messages.
	BrkNumRcvcs	The number of messages received.
	BrkNumRollbacks	The number of rollbacks.
	BrkNumSends	The number of sends.
	BrkNumUows	The number of UOWs.
	BrkTimeCommit	The last commit time.
	BrkTimeReceive	The last receive time.
	BrkTimeRollback	The last rollback time.
	BrkTimeSend	The last send time.

Category Type	Statistic	Description
	BrkTimeShutdown	The shutdown time.
	BrkTimeStart	The start time.
	State	The current state.
	TransactionInfo	Last transaction information.
WebSphere MQ Source (/source/sourcename)	MqsCfgHost	The WebSphere MQ host machine.
	MqsCfgPort	The WebSphere MQ port number.
	MqsLastException	The last exception.
	MqsNumBytesReceived	The number of bytes received.
	MqsNumBytesSent	The number of bytes sent.
	MqsNumCommits	The number of commits.
	MqsNumExceptions	The number of exceptions.
	MqsNumMsgs	The number of messages.
	MqsNumRcvs	The number of receives.
	MqsNumRollbacks	The number of rollbacks.
	MqsNumSends	The number of sends.
	MqsTimeCommit	The last commit time.
	MqsTimeException	The last exception time.
	MqsTimeReceive	The last receive time.
	MqsTimeRollback	The last rollback time.
	MqsTimeSend	The last send time.
	MqsTimeShutdown	The shutdown time.
	MqsTimeStart	The start time.
	State	The current state.
	TransactionInfo	Last transaction information.
JMS Target (/source/<targetname>)	JMSProvider	The URL of the JMS provider.
	JMSFactory	The JMS factory class in use.
	JMSConnection	The configured connection factory.
	JMSDestination	The destination topic.
	JMSNumCreates	The number of create statements processed.
	JMSNumInserts	The number of insert statements processed.
	JMSNumUpdates	The number of update statements processed.
	JMSNumDeletes	The number of delete statements processed.
	JMSNumDrops	The number of drop statements processed.
Terracotta Target (/target/<targetname>)	Parameter	The location of the <i>ehcache.xml</i> file.
	GenericNumCreates	The number of create statements processed.
	GenericNumInserts	The number of insert statements processed.

Category Type	Statistic	Description
	GenericNumUpdates	The number of update statements processed.
	GenericNumDeletes	The number of delete statements processed.
	GenericNumDrops	The number of drop statements processed.
	GenericNumPopulates	The number of populate statements processed.

*) value might be zero if no messages are stored in the message queue at infoTime.

**) value might be zero if heartbeat was not written to SLOG.

V

Supported Relational Databases *

6 Supported Relational Databases *

The following relational databases (RDBMS) are supported by Event Replicator Target Adapter Administration:

RDBMS Support	Required JDBC Driver
DB2 9.1 for open systems, or later	<i>db2jcc4.jar</i>
DB2 Universal Database (UDB) version 9 for z/OS, or later	<i>db2jcc4.jar</i> <i>db2jcc_license_cisuz.jar</i>
Microsoft SQL Server 2005 and later	<i>sqljdbc4.jar</i>
MySQL 5.0.17, or later	<i>mysql-connector-java-v.r.s-bin.jar</i> , where <i>v.r.s</i> represents the MySQL release number.
Oracle 10g or later	<i>ojdbc7.jar</i>
PostgreSQL 9.2 or later	<i>postgresql-v.r-1002.jdbc4.jar</i> , where <i>v</i> and <i>r</i> represent the first two parts of the PostgreSQL version number. <i>v.r.s</i>
Teradata Version 2 Release 1.2 for open systems, or later	<i>tdgssconfig.jar</i> <i>terajdbc4.jar</i>

* The versions represented here are the minimum required target RDBMS and driver versions tested with Event Replicator Target Adapter. In general, when a vendor drops support for a particular product or version, our support will also be dropped. You should use the latest appropriate driver from your vendor for the target you are replicating to.

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