

# **webMethods EntireX**

## **Post-installation Steps under Windows**

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This document applies to webMethods EntireX Version 9.9 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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# 1 Post-installation Steps under Windows

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Under UNIX and Windows, EntireX is now installed using the Software AG Installer, which you download from the Software AG Empower website at [Empower](http://empower.softwareag.com). You can view the documentation for the Software AG Installer under <http://documentation.softwareag.com> > *webMethods Product Line* > *webMethods Product Suite 9.9* > *System Requirements, Installation, and Upgrade*.

This chapter assumes you have already installed EntireX using the Software AG Installer. It covers installation instructions for components not included in the Software AG Installer; instruction on how to verify the installation and set up EntireX Security.



**Note:** The functionality provided by the EntireX Mini Runtime of EntireX version 9.7 and below is now delivered as a separate component under **Infrastructure > Libraries > EntireX Libraries** in the Software AG Installer. See Software AG documentation *Installing Software AG Products*. After installation you will find the files at the following location:

Windows 32-bit `<inst_root>\common\EntireX\exx_32\bin`

Windows 64-bit `<inst_root>\common\EntireX\exx_32\bin` (for the 32-bit versions) and  
`<inst_root>\common\EntireX\exx_64\bin` (for the 64-bit versions)

## Broker Instance Created Automatically during Installation

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If check box **Turn on Autostart for default EntireX Broker** is checked, the installation starts the default broker ETB001. This broker instance listens on the TCP/IP and SSL ports defined in the custom panel during installation. Default port numbers are 1971 (TCP/IP) and 1958 (SSL).

### » To change the default port of the default broker

- 1 Stop the broker, using one of the following methods:
  - Use System Management Hub. See *Stopping a Local Broker* under *Administering EntireX Broker using System Management Hub* in the Windows administration documentation.
  - Use the Windows start menu entry **Software AG > Stop Servers > Stop EntireX Default Broker**.
- 2 Edit the configuration file `config/entirex.config` and change the TCP/IP and SSL port numbers to a different value. For other broker instances, see `PORT` under *Broker Attributes*.
- 3 Start the broker, using one of the following methods:
  - Use System Management Hub. See *Starting a Local Broker* under *Administering EntireX Broker using System Management Hub* in the Windows administration documentation.
  - Use the Windows start menu entry **Software AG > Start Servers > Start EntireX Default Broker**.

## Broker Service 'etbsrv'

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The broker service *etbsrv.exe* must be active on every machine where a broker instance is running. The installation procedure installs it with startup type “automatic” and with status type “started”. *etbsrv.exe* is in the *bin* subdirectory of the EntireX installation directory.

## Starting or Restarting the Administration Service

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The Administration Service is started or stopped by the broker service *etbsrv*.

When the broker has been started successfully, the Administration Service waits for messages from other started brokers. This wait period lasts around 90 seconds.

After this wait period, all brokers are started that have an Autostart value of “yes” that have not already started.

When the Administration Service is restarted, it takes a maximum of 90 seconds until the current system status is displayed correctly.

## Eclipse Considerations

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Eclipse is an optional component of EntireX. For *EntireX Workbench*, it is required.

If you have not already installed Eclipse at your site, you can install Eclipse and the *EntireX Workbench* from the installation medium. If you wish to install the *EntireX Workbench* into an existing Eclipse environment, use the Eclipse update mechanism to deploy the EntireX feature.

### Migrating from one EntireX Version to a Higher Version

When you migrate from one EntireX version to a higher version you have to change the license file setting to the new license file.

#### ➤ To set a new license file

- Go to the Preference pages in Eclipse (**Window > Preferences**) and select the page **Software AG > EntireX > Installation**.

## Installing the EntireX Workbench Plug-ins in Standalone Mode

If you want to install the Workbench plug-ins in standalone mode, that is, not as part of the full webMethods EntireX installation, see *Installing the EntireX Workbench Plug-ins in Standalone Mode* in the general installation documentation.

## Verifying the EntireX Windows Installation

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To verify successful installation, you can use the `etbinfo` utility. It queries the Broker for information as described below.

1. If you have not already created a default Broker, create one using System Management Hub. See *Creating a Local Broker under Administering EntireX Broker using System Management Hub* in the Windows administration documentation.
2. Start the Broker using SMH.
3. Run `etbinfo` to get back a response from the broker. Start a Command Prompt session, change your directory to the EntireX `bin` directory, for example `C:\SoftwareAG\EntireX\bin`, and use the following command:

```
etbinfo -blocalhost -dBROKER -pbroker.pro
```

This assumes that you use the default port 1971. Otherwise use the command:

```
etbinfo -blocalhost:port -dBROKER -pbroker.pro
```

where `port` is the port number of your broker.

This should display a simple formatted report with information about the broker.

## Setting up EntireX Security under Windows

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- [Setting up EntireX Security for Broker Kernel](#)
- [Setting up EntireX Security for Broker Stubs](#)



**Note:** You must set up EntireX Security for broker kernel and - if your application(s) use API version 7 or below - also for broker stubs.



## Setting up EntireX Security for Broker Kernel

### » To set up EntireX Security for broker kernel under Windows

- 1 Determine that all prerequisites for EntireX components have been met before setting up EntireX Security. See *Windows Prerequisites* in the EntireX Release Notes.
- 2 Insert the following statement into the broker-specific section of the attribute file. See *Broker-specific Attributes* under *Broker Attributes* in the platform-independent administration documentation.

■ SECURITY=YES

- 3 Modify the security-specific section of the broker attribute file according to your requirements. See *Security-specific Attributes* (DEFAULTS=SECURITY) under *Broker Attributes* in the platform-independent administration documentation. These parameters are used to determine whether you will use Windows local security or LDAP-based authentication. If you are using LDAP-based authentication, authorization rules are not available to you.



**Note:** Authentication: Windows authentication calls `LogonUser()` with the flag `LOGON32_LOGON_INTERACTIVE`.

## Setting up EntireX Security for Broker Stubs



**Note:** If you are running your application(s) at ACI version 7 or below, the following steps are required to install EntireX Security for the Broker stubs in all environments where applications execute either as clients or servers. See *List of Components per Platform* under *Platform Coverage* in the EntireX Release Notes for where EntireX Security for broker stubs is supported.

These steps are not required if you are running your application(s) at ACI version 8 or above.

➤ **To install EntireX Security for broker stubs on Windows**

- When requested to specify the installation type, choose **Custom** and check the **Security** box.  
(The required directories including *secuexit.dll* are copied to your computer during installation.)



**Notes:**

1. *Secuexit.dll* is needed for backward compatibility if your applications issue any commands using ACI version 7 or below. Applications using ACI version 8 do not require this additional component in the stub.
2. For encrypted transport we strongly recommend using the Secure Sockets Layer/Transport Layer Security protocol. See *SSL/TLS and Certificates with EntireX*.



**Caution:** If stub tracing level is > 1, unencrypted contents of the send/receive buffers are exposed in the trace.

Installation of EntireX Security for Broker stubs is now complete. Now you can install the security components for the Broker stubs on the remaining operating systems where your application components are located.

## Mini Runtime

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If you need the EntireX Mini Runtime with your application, extend the `PATH` variable to `<inst_root>\EntireX\bin` before starting your application.

## Natural Considerations

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### Installing the Natural-based EntireX Broker Tutorial under Windows

➤ **To install the Tutorial**

- 1 Load all objects of *SYSETB.TRA* in the *ETC* subdirectory, using the Natural utility *YSOBJH*. See *Object Handler* in the Natural Tools and Utilities documentation for more information.
- 2 Logon to Natural library *SYSETB* and issue the *CATALL* command to catalog all the programs in the library.

## Broker ActiveX Control and TOR Editor

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Before you can use the Broker ActiveX Control (file *ebx.dll*) and/or the TOR Editor (file *toredit.exe*) you have to register the Broker ActiveX Control as a COM component. Start the program `regsvr32` with "Run as Administrator":

```
regsvr32 <path>\ebx.dll
```

- On a Windows 32-bit operating system, files *ebx.dll* and *toredit.exe* are located in the *Entirex\bin* directory of the installation.
- On a Windows 64-bit operating system, files *ebx.dll* and *toredit.exe* are located in the *Entirex\bin\x86* directory of the installation.



**Note:** Only program *ebx.dll* needs to be registered as a COM component.

