



Deployment of Falcon-based applications

How to deploy Falcon and related components and applications

The packages released as Falcon v1.2 are:

FalconDeveloper.msi	The developer version of Falcon including Runtime, all Diagnostic Tools and Demo applications. For your convenience, also the .exe version is included which allows installation directly on OS versions which do not support MSI yet, without requiring to retrieve the MSI engine in an additional step.
FalconDiagnostic.msi	Redistributable stand-alone setup for Diagnostic purposes. For your convenience, also the .exe version is included which allows installation directly on OS versions which do not support MSI yet, without requiring to retrieve the MSI engine in an additional step.
FalconRuntime_emb.msi	Redistributable setup of Falcon's runtime components, without Diagnostic tools or demos, does not create any shortcuts in the menus and requires administrative rights for the driver installation. For nested installation only (see below) in applications using Falcon.
FalconDiagnostic_emb.msi	Redistributable setup for nested installation (see below) in applications using Falcon.
EibaLogViewer.msi	Unsupported tool for pure developer diagnostic purposes. Application is located below '[CommonFilesFolder]EIBA sc'. Not for redistribution to users. For your convenience, also the .exe version is included which allows installation directly on OS versions which do not support MSI yet, without requiring to retrieve the MSI engine in an additional step.

Nested Installation under Windows Installer

This documentation explains how to embed the FalconRuntime_emb.msi or the FalconDiagnostic_emb.msi in another setup which is referred to as 'Outside setup'.

Personalizing the nested setup

For the distribution of shared components via nested installations, the so called 'ProductCode' of the nested MSI setup must be unique for each product and Falcon version. This means, that for each product released or the same product with a different Falcon version, the 'ProductCode' in the MSI setup (either FalconRuntime_emb.msi or FalconDiagnostic_emb.msi, or both) must be personalized. This is done with the 'Personalize Setup' application delivered with Falcon Developer.

We recommend to make a copy of the 'pure' version of the nested setup to a file with a meaningful name (e.g. copying 'FalconRuntime_emb.msi' to 'FalconRTv12MyProduct.msi') before processing the MSI file. Opening the application, you simply choose the MSI setup to be personalized (e.g. 'FalconRTv12MyProduct.msi') and typically let the application create a new GUID automatically.

It is important to personalize the nested installations, otherwise it may happen that Falcon components are removed though there are still applications installed which require Falcon.



Deployment of Falcon-based applications

Properties of the Nested Installation

The behaviour of the FalconRuntime.msi in the Outside setup is like a merge module. The user doesn't recognize during the Outside setup and later that the FalconRuntime.msi has been installed.

Creation of the Nested Installation with the Windows Installer

The following steps describe the creation of a **Nested** Install and removal of a **Nested** Install:

Step 1: Step 1: Create the Outside setup and save.

Step 2: Step 2: Open the Outside setup.

1. Add new Custom Action in Install Execute Sequence.
2. Select **Nested** Installation in Custom Action Type. Leave the default settings in the Source.
3. Type in the Custom Action Name (e.g. "FalconRT"), Path of the personalized FalconRuntime_emb.msi. Leave the Property Settings blank. Please note that Falcon runtime requires administrative rights to install!
4. Place the custom action after InstallInitialize and set the Condition to NOT REMOVE. (Case Specific)
5. Leave the default settings.

Step 3: Step 3: Add a second Custom Action in Install Execute Sequence.

1. Select **Nested** Installation in Custom Action Type. Leave the default settings in the Source.
2. Type in the Custom Action Name (e.g. "FalconRT_Remove"), Path of the personalized FalconRuntime_emb.msi. Set the Property Settings to REMOVE= ALL (case specific). Please note that Falcon runtime requires administrative rights to uninstall!
3. Place the Custom Action after the first Custom Action and set the Condition to REMOVE="ALL" (case specific).
4. Leave the default settings on the Properties tab.

Step 4: Step 4: Compile the .MSI.

Step 5: Step 5: Make sure that both have been installed.

Step 6: Step 6: Go to the Adds/Remove control panel and remove the application by running the uninstall.

When you are running a **Nested** Install, you cannot modify the directory where the Inside setup is to be installed. When you browse for the directory, it only changes the location of the Outside setup.

Note: Wise for Windows Installer possibly shows an error message during the compilation. It says that there is not enough disk space on your computer. In this case it might be helpful to choose "Resides in source tree relative to base install" instead of the default setting in source. (described in Step 2 No. 2).