Installation

Please read the following sections before installing the Service Factory: Modeling Edition in your development environment:

- System Requirements
- Installation Instructions
    - Installation Instructions for Binary Installer
    - Installation Instructions for Source Code Installer
    - Installation Instructions for Source Code Installer When Using Visual Studio Professional Edition or Team Architect Edition
- Uninstallation Instructions
    - Uninstallation Instructions for Binary Installer
    - Uninstallation Instructions for Source Code Installer

System Requirements

System Requirements for Binary Installer

To view and run the Service Factory: Modeling Edition assets in your development environment, you need the following software installed on your computer:

- Windows XP Professional, Windows Server 2003, or Windows Vista operating system
- Microsoft Visual Studio 2008 (Visual Studio Professional Edition or Visual Studio Team Suite)
- Visual Studio 2008 SDK Version 1.0
- Microsoft .NET Framework 3.5
- Guidance Automation Extensions - February 2008 Release for Visual Studio 2005 and Visual Studio 2008

> **Important:** If you have a previous version of GAT and/or GAX installed on your computer, please review the information about updating to the February 2008 Release here: http://msdn2.microsoft.com/en-us/teamsystem/aa718949.aspx

> **Note:** Installing the Web Service Software Factory: Modeling Edition for Visual Studio 2005 and the Web Service Software Factory: Modeling Edition for Visual Studio 2008 side-by-side has not been fully tested and is not recommended.

System Requirements for Source Code Installer

To view and run the Service Factory: Modeling Edition assets in your development environment, you need the following software installed on your computer:

- Windows XP Professional, Windows Server 2003, or Windows Vista operating system
- Microsoft Visual Studio 2008 (Visual Studio Professional Edition or Visual Studio Team Suite)
- Visual Studio 2008 SDK Version 1.0 (includes the Domain-Specific Language (DSL) Toolkit)
- Microsoft .NET Framework 3.5
- Guidance Automation Extensions - February 2008 Release for Visual Studio 2005 and Visual Studio 2008
- Guidance Automation Toolkit - February 2008 Release for Visual Studio 2008

> **Important:** If you have a previous version of GAT and/or GAX installed on your computer, please review the information about updating to the February 2008 Release here: http://msdn2.microsoft.com/en-us/teamsystem/aa718949.aspx

Installation Instructions

Depending on what version of the Service Factory: Modeling Edition you would like to install (binary or source) and on your computer configuration, review and follow one of the following installation instructions:

- Installation Instructions for Binary Installer
- Installation Instructions for Source Code Installer
- Installation Instructions for Source Code Installer When Using Visual Studio Professional Edition or Team Architect Edition

> **Known Issue**: If you already have a DSL installed that uses *.servicecontract or *.datacontract or *.host as the file extensions for its models, installing the Service Factory: Modeling Edition overwrites your existing DSL. We don't suspect this will impact many people, but we thought it

would be safe to mention it before you install. This is a known issue with the DSL toolkit installers.

Known Issue: If you are installing on Visual Studio Professional or if you are using the Architect edition of Visual Studio Team System, you will not be able to run the code analysis rules, even though you will see the option to do so.

Installation Instructions for Binary Installer

To install the Service Factory: Modeling Edition

1. Ensure that your computer meets the system requirements. You should install the requirements in the order they appear.
2. If you have installed any previous Service Factory: Modeling Edition drops, follow the Uninstallation Instructions to remove the previous version.
3. If you are using Microsoft Vista, open the Visual Studio 2008 Command Prompt as an administrator and run devenv /setup.
4. Follow the steps in the Web Service Software Factory binary .msi file to install the Service Factory.

Installation Instructions for Source Code Installer

Follow the instructions below to install the Service Factory: Modeling Edition. When you get to the end, if you receive any errors, just reset your experimental hive (see step 3 in the following procedure) and try again.

Note: To prevent errrors, you should not install or build the Service Factory more than once on a machine. Therefore, if you intend to install the source and build it, you must uninstall the binary or custom versions first.

> **Known Issue:** If you install the source code in a non-default location, it is possible that you will not be able to create your solution files. By default, you should use the following folder: C:\Projects\WssfSrc\

To install the Service Factory: Modeling Edition

1. Ensure that your computer meets the system requirements. You should install the requirements in the order they appear.
2. If you have installed any previous Service Factory: Modeling Edition community drops, follow the Uninstallation Instructions to remove the previous version.
3. If you are using Microsoft Vista, open the Visual Studio 2008 Command Prompt as an administrator and run devenv /setup.
4. Reset the Visual Studio 2008 Experimental hive. On the taskbar, click **Start**, point to **All Programs**, point to **Microsoft Visual Studio 2008 SDK**, point to **Tools**, and then click **Reset the Microsoft Visual Studio 2008 Experimental hive**.

   > **Note:** The experimental hive is a part of the registry; it is provided by the Visual Studio SDK and is designated to test Visual Studio extensions (like DSLs) without the danger of corrupting the main registry hive that Visual Studio uses (the instance of Visual Studio you use every day). During testing, a different instance of Visual Studio is used that operates only on the experimental hive. For more information about the experimental hive, see Experimental Build on MSDN. This step ensures you start from a clean slate. If you have been doing other work with the DSL toolkit in the experimental hive, this will erase the registrations of those components.

5. Install the Web Service Software Factory source .msi file to the default location (C:\Projects\WssfSrc). If you choose a different location, you should install the source code to a directory with a short path name (for example, C:\Projects\WssfV4Src). This is due to the following known issue with respect to the length of file names:

   > **Known Issue**: Windows operating systems do not allow pathnames longer than 254 characters on non-NTFS partitions. Some applications such as Visual Studio enforce his constraint independent of the format of the partition. Because the Service Factory: Modeling Edition source code includes some long namespaces, which directly affect the names of the resource files during a build, we recommend installing to a short path name.

6. Run the build script that contains the post-installation activities.
   a. Open a Visual Studio Command Prompt and navigate to the folder where you installed the Service Factory (for example, C:\Projects\WssfSrc). If you are using Windows Vista, this should be opened as an administrator.
   b. Run the build task by entering **msbuild PostInstall.proj**.

c. Close the command prompt window.

7. Using a normal (non-experimental) instance of Visual Studio, open the Service Factory Guidance package.sln file from your source installation folder.
8. Rebuild the entire solution.
9. Attach the Guidance Automation Toolkit to the solution. To do this:
    a. On the **Tools** menu, click **Guidance Package Manager**.
    b. In the **Guidance Package Manager** dialog box, click **Enable/Disable Packages**.
    c. In the **Enable and Disable Packages** dialog box, select the **Guidance Package Development** check box, and then click **OK**.
    d. In the **Guidance Package Manager** dialog box, click **Close**.
10. In Solution Explorer, right-click **Service Factory Guidance Package**, and then click **Register Guidance Package**. (This may take several minutes, depending on the speed of your computer).
11. After you successfully register the guidance package, close Visual Studio.

After completing the preceding steps, this drop is installed. The important thing to remember is anytime you want to create a Service Factory: Modeling Edition solution, you must do so with an experimental instance of Visual Studio. If you try to create a solution using the normal instance of Visual Studio, it will fail with errors, as it should.

Installation Instructions for Source Code Installer When Using Visual Studio Professional Edition or Team Architect Edition

The Service Factory: Modeling Edition source code does not compile and the guidance package does not register out-of-the-box with Visual Studio Professional Edition. This is because the WCF Semantic Code Analysis rules feature that comes with the Service Factory is not compatible with the Professional Edition of Visual Studio. You must make the following changes to the code to work around the issue and disable this feature.

To install the Service Factory: Modeling Edition

1. Ensure that your computer meets the system requirements. You should install the requirements in the order they appear.
2. If you have installed any previous Service Factory: Modeling Edition community drops, follow the Uninstallation Instructions to remove the previous version.
3. If you are using Microsoft Vista, open the Visual Studio 2008 Command Prompt as an administrator and run devenv /setup.
4. Reset the Visual Studio 2008 Experimental hive. On the taskbar, click **Start**, point to **All Programs**, point to **Microsoft Visual Studio 2008 SDK**, point to **Tools**, and then click **Reset the Microsoft Visual Studio 2008 Experimental hive**.

   > **Note:** The experimental hive is a part of the registry; it is provided by the Visual Studio SDK and is designated to test Visual Studio extensions (like DSLs) without the danger of corrupting the main registry hive that Visual Studio uses (the instance of Visual Studio you use every day). During testing, a different instance of Visual Studio is used that operates only on the experimental hive. For more information about the experimental hive, see Experimental Build on MSDN. This step ensures you start from a clean slate. If you have been doing other work with the DSL toolkit in the experimental hive, this will erase the registrations of those components.

5. Install the Web Service Software Factory source .msi file to the default location (C:\Projects\WssfSrc). If you choose a different location, you should install the source code to a directory with a short path name (for example, C:\Projects\WssfV4Src). This is due to the following known issue with respect to the length of file names:

   > **Known Issue**: Windows operating systems do not allow pathnames longer than 254 characters on non-NTFS partitions. Some applications such as Visual Studio enforce his constraint independent of the format of the partition. Because the Service Factory: Modeling Edition source code includes some long namespaces, which directly affect the names of the resource files during a build, we recommend installing to a short path name.

6. Follow the steps in the wizard. If you are using the Professional Edition of Visual Studio 2008, remove the Visual Studio Team System tests because you will not be able to open them. On the last step, select the check box to open the new working folder.
7. Run the build script that contains the post-installation activities:
   a. Open a Visual Studio Command Prompt and navigate to the folder where you installed the Service Factory (for example, C:\Projects\WssfSrc). If you are using Windows Vista, this should be opened as an administrator.
   b. Run the build task by entering **msbuild PostInstall.proj**.
   c. Close the command prompt window.

8. Using a normal (non-experimental) instance of Visual Studio, open the Service Factory Guidance package.sln file from your source installation folder.
9. Remove the Code Analysis project folder (or underlying project Microsoft.Practices.FxCopRules.WcfSemantic) from the solution.
10. Remove the Code Analysis folder in Guidance Package/Service Factory Guidance Package/Recipes/CodeAnalysis folder.
11. Open the Service Factory Guidance Package.xml file located under the Service Factory Guidance Package Project and comment out or remove the following line under the <**Recipes**> tag.

```
<xi:include href="Recipes/CodeAnalysis/RunCodeAnalysisRules.xml"/>
```

12. Open the Binding.xml file located under the Service Factory Guidance Package Project/Recipes/ folder and comment out or remove the following line under the <**Actions**> tag.

```
<Action Name="RunCodeAnalysisRulesRef" Type="RefCreator"
AssetName="RunCodeAnalysisRules"

ReferenceType="AnyProjectReference" />
```

13. Comment out the following line in Service Factory Guidance Package Files.wxs which is located in the Service Factory Guidance Package Setup project.

```
<File Id="ID_ef985059_c088_4d5d_ba51_dc402ed29eb9" DiskId="1" Name="F0005.sfn"
LongName="Microsoft.Practices.FxCop.Rules.WcfSemantic.dll" />
```

14. Rebuild the entire solution.
15. Attach the Guidance Automation Toolkit to the solution. To do this:
    a. On the **Tools** menu, click **Guidance Package Manager**.
    b. In the **Guidance Package Manager** dialog box, click **Enable/Disable Packages**.
    c. In the **Enable and Disable Packages** dialog box, select the **Guidance Package Development** check box, and then click **OK**.
    d. In the **Guidance Package Manager** dialog box, click **Close**.
16. In Solution Explorer, right-click **Service Factory Guidance Package**, and then click **Register Guidance Package**. (This may take several minutes depending on the speed of your computer).
17. After you successfully register the guidance package, close Visual Studio.

Uninstallation Instructions

Depending on what version of the Service Factory you have installed (binary or source), review and follow one of the following uninstallation instructions:

- Uninstallation Instructions for Binary Installer
- Uninstallation Instructions for Source Code Installer

Uninstallation Instructions for Binary Installer

To uninstall the Service Factory: Modeling Edition

1. In Control Panel, double-click **Add or Remove Programs**.
2. In the **Add or Remove Programs** dialog box, select **Web Service Software Factory community release –February 2008**.
3. Click **Remove**.

Use the following steps to remove the Web Service Software Factory from your computer. Be sure to perform the following steps in order.

Uninstallation Instructions for Source Code Installer

To uninstall the Service Factory: Modeling Edition

1. Close all instances of Visual Studio.
2. Using a normal instance of Visual Studio, open the Service Factory Guidance package.sln file from your source installation folder.
3. In Solution Explorer, right-click **Service Factory Guidance Package** project under the Guidance Package folder, and then click **Unregister Guidance Package**. (This may take several minutes, depending on the speed of your computer).
4. After you successfully unregister the guidance package, close Visual Studio.
5. Reset the Visual Studio 2008 Experimental hive. On the taskbar, click **Start**, point to **All Programs**, point to **Microsoft Visual Studio 2008 SDK**, point to **Tools**, and then click **Reset the Microsoft Visual Studio 2008 Experimental hive**.

6. Open the Assemblies folder. On the taskbar, click **Start**, and then click **Run**. In the **Open** text box, type the following command:

   %WINDIR%/assembly

7. Manually delete the following assemblies:
   - Microsoft.Practices.Modeling.CodeGeneration
   - Microsoft.Practices.Modeling.Common
   - Microsoft.Practices.Modeling.Dsl.Service
   - Microsoft.Practices.Modeling.ExtensionProvider
   - Microsoft.Practices.ServiceFactory.DataContracts.Dsl
   - Microsoft.Practices.ServiceFactory.DataContracts.DslPackage
   - Microsoft.Practices.ServiceFactory.HostDesigner.Dsl
   - Microsoft.Practices.ServiceFactory.HostDesigner.DslPackage
   - Microsoft.Practices.ServiceFactory.ServiceContracts.Dsl
   - Microsoft.Practices.ServiceFactory.ServiceContracts.DslPackage
   - Microsoft.Practices.VisualStudio.Helper
8. Using Windows Explorer (or a command prompt), delete the folder you installed the source into. For example, C:\Projects\WssfSrc\