

IBM SPSS Statistics - Integration Plug-In for Microsoft .NET: Installation Instructions

Installation steps

On the computer where you will use the plug-in:

- ▶ Install version 20 of the IBM® SPSS® Statistics application (the plug-in works with any valid SPSS Statistics license).
- ▶ Install the Microsoft .NET 3.5 Framework. You can check if the .NET 3.5 Framework is installed from Add or Remove Programs, available from the Windows Control Panel. Look for the entry Microsoft .NET Framework 3.5 or Microsoft .NET Framework 3.5 SP1. The Microsoft .NET 3.5 Framework is freely available from the Microsoft Download Center at <http://www.microsoft.com/downloads/en/default.aspx>.
- ▶ Download version 20 of the IBM® SPSS® Statistics - Integration Plug-In for Microsoft .NET, available from the SPSS community at <http://www.ibm.com/developerworks/spssdevcentral>.

Windows XP

- ▶ Double-click the downloaded file and follow the instructions that appear on the screen.

Windows Vista, Windows 7, or Windows Server 2008

You must run the installer as administrator:

- ▶ Using Windows Explorer, browse to the folder where you downloaded the file.
- ▶ Right-click the downloaded file and choose Run as Administrator.
- ▶ Follow the instructions that appear on the screen.

Notes

- Version 20 of the Integration Plug-In for Microsoft .NET is designed to work best with Microsoft Visual Studio 2005 or 2008. Use of the plug-in does not, however, require Visual Studio.
- If you plan to develop applications with the plug-in using Microsoft Visual Studio, be sure Visual Studio is installed on the computer and that you have launched Visual Studio at least once before installing the plug-in. You do not need to uninstall earlier versions of the Integration Plug-In for Microsoft .NET before installing version 20.

Repairing an installation

If you uninstall and then reinstall version 20 of the IBM® SPSS® Statistics application, it is recommended to reinstall version 20 of the IBM® SPSS® Statistics - Integration Plug-In for Microsoft .NET.

Running multiple versions of the IBM SPSS Statistics - Integration Plug-In for Microsoft .NET

You can run multiple versions of the IBM® SPSS® Statistics - Integration Plug-In for Microsoft .NET on a given machine, each associated with a compatible version of IBM® SPSS® Statistics. Each version of the plug-in installs its own set of .NET assemblies—that provide the interface to SPSS Statistics—to the Global Assembly Cache, as described in the next section.

Plug-in contents

The plug-in includes two .NET assemblies:

- **SPSS.BackendAPI.dll.** A .NET assembly that provides access to the API that allows an external processor to control IBM® SPSS® Statistics. It loads *spssxd_p.dll*—the library that implements the API to control SPSS Statistics—from the SPSS Statistics application directory.
- **SPSS.BackendAPI.Controller.dll.** A .NET assembly that wraps the low level API exposed to .NET by *SPSS.BackendAPI.dll*. This is the library intended for use by application developers.

Both assemblies are added to the Global Assembly Cache (GAC) by the installer. They are also available from the *NET* directory under the directory where SPSS Statistics 20 is installed—for example, *C:\Program Files\IBM\SPSS\Statistics\20\NET*.

Visual Studio users. For Visual Studio users, the Visual Studio item template *SPSS_Statistics-.NET_Integration_Plug-In200Class* is installed with the plug-in and available from the Add New Item choice on the Project menu. Adding the item template to a project creates references to the version 20 copies of *SPSS.BackendAPI.dll* and *SPSS.BackendAPI.Controller.dll* stored in the GAC so there is no need to manually add references to these libraries during development. The template contains a sample Visual Basic class to help you get started with writing applications for version 20 of the IBM® SPSS® Statistics - Integration Plug-In for Microsoft .NET.

Note: If you plan on working with Microsoft Visual Studio and you installed the plug-in before installing Visual Studio, you'll need to uninstall the plug-in, install Visual Studio, and reinstall the plug-in in order to access the item template.

Users without Visual Studio. If you are not using Visual Studio, you'll need to manually create references to *SPSS.BackendAPI.dll* and *SPSS.BackendAPI.Controller.dll*. Both files can be found in the *NET* directory under the directory where SPSS Statistics 20 is installed—for example, *C:\Program Files\IBM\SPSS\Statistics\20\NET*. To get started with writing applications for version 20 of the Integration Plug-In for Microsoft .NET, see the sample Visual Basic class available for download from *Example VB.NET Class 20* on the SPSS community (<http://www.ibm.com/developerworks/spssdevcentral>).

Documentation

Documentation for the *SPSS.BackendAPI.Controller* library can be found in the *NET* directory under the directory where IBM® SPSS® Statistics 20 is installed—for example, *C:\Program Files\IBM\SPSS\Statistics\20\NET*. For Visual Studio users, the documentation is integrated into the Visual Studio IDE, and available from the help contents and the Dynamic Help window. The documentation includes simple code examples for each of the available methods.

Note: If you install multiple versions of the IBM® SPSS® Statistics - Integration Plug-In for Microsoft .NET on a given machine, you will only have access to the integrated Visual Studio help for the last installed version of the plug-in.

Documentation on developing .NET applications with version 20 of the Integration Plug-In for Microsoft .NET is provided in *Microsoft .NET User Guide for IBM SPSS Statistics*, available by choosing Programmability>VB.Net plug-in from the Help menu in SPSS Statistics, once the plug-in is installed. The documentation includes examples of running SPSS Statistics commands, working with dictionary information, retrieving case data from the active dataset, creating new variables and new cases in the active dataset, creating new datasets, retrieving procedure output, and creating output in the form of pivot tables and text blocks.