IBM SPSS Modeler 15 Client Installation (Network License)

The following instructions are for installing IBM® SPSS® Modeler Client version 15 using a network license. This document is for end users who are installing IBM SPSS Modeler Client on their desktop computers. If you are a network administrator, see the *Network License Administrators Guide* for information about setting up the network license and distributing the product to end users.

IBM® SPSS® Modeler Client is a functionally complete version of the product, which is installed and run on the user's desktop computer. The Client can be run in local mode as a standalone product, or in distributed mode along with IBM® SPSS® Modeler Server for improved performance on large data sets. Additional options are also available for purchase, including IBM® SPSS® Modeler Text Analytics , IBM® SPSS® Modeler Entity Analytics, IBM® SPSS® Modeler Social Network Analysis, IBM® SPSS® Modeler Solution Publisher, and others.

During installation, you will be prompted for the following information. Contact your site administrator if you do not have the following information.

Name:
Organization:
License Manager Server Name or IP Address:

System Requirements for IBM SPSS Modeler Client

The minimum hardware and software requirements for IBM® SPSS® Modeler Client are as follows:

Note: IBM® SPSS® Modeler Text Analytics is a Microsoft Windows-only client, but can connect to a remote server running Microsoft Windows, Sun® Solaris™, Linux Red Hat®, HP-UX®, or IBM AIX®.

- **Operating system.** Microsoft Windows 7 (Professional and Enterprise) x32 and x64 Editions; Microsoft Windows Vista (Business and Enterprise) with Service Pack 1 x32 and x64 Editions; Microsoft Windows XP Professional with Service Pack 3 x32 and x64 Editions.

- **Hardware.** Intel Pentium or Intel Pentium-class processor or higher (for 32-bit Microsoft Windows); x64 (AMD 64 and EM64T) processor family (for 64-bit Microsoft Windows) running at 1GHz or faster. A monitor with 1024x768 resolution or higher. A disk drive is also required if you are installing from a disk.

- **Minimum free disk space.** 10GB of available hard-disk space on Microsoft WindowsIBM® SPSS® Modeler client machine and additional space for data created.

- **Minimum RAM.** 2 GB RAM minimum; 4 GB, or more, recommended.

■ **Software.** SPSS Modeler version 15 and Microsoft Internet Explorer 7.0 or higher for online help.

■ **Virtual environment.** The following virtual environments support SPSS Modeler Text Analytics :

- Windows 2008® Terminal Services and R2

- Windows 2003® Terminal Services and R2

- Citrix XenApp 5 – Standard, Advanced and Enterprise

- Citrix Presentation Server 4.5 – Standard, Advanced and Enterprise

- VMWare ESX Server 3.5

- VMWare vSphere 4.0

Note: For additional information or recent updates, you can log on to the IBM Support website at *http://www.ibm.com/support*.

■ **Operating system.**

- Microsoft® Windows® 7 (Professional and Enterprise) with Service Pack 1 32-bit and 64-bit Editions

- Microsoft Windows Vista (Business and Enterprise) with Service Pack 2 32-bit and 64-bit Editions

- Microsoft Windows XP Professional with Service Pack 3 32-bit (x86 and x64) Editions

■ **Hardware.**

- Intel® Pentium® or Pentium-class processor or higher (for 32-bit Windows)

- x64 (AMD 64 and EM64T) processor family (for 64-bit Windows)

- Monitor with 1024x768 resolution or higher

- DVD-ROM drive (if installing from the installation disk)

■ **Minimum free disk space.** 10 GB of available hard-disk space.

■ **Minimum RAM.** 2 GB of RAM minimum; 4 GB or more recommended.

■ **Browser.** Mozilla Firefox 3.x or higher, or Microsoft® Internet Explorer® 7 or higher, for online help.

■ **Virtual environment.** The following virtual environments support IBM® SPSS® Modeler.

- Citrix XenApp 5 – Standard, Advanced and Enterprise

- Citrix Presentation Server 4.5 – Standard, Advanced and Enterprise

- Remote Desktop Services for Windows Server 2008 and Windows Server 2008 R2

- VMWare ESX Server 4.1

- VMWare vSphere 4.0

Installing IBM SPSS Modeler Client

Your administrator might have given you an installation disk or identified a network location from which to install. Check with your administrator if you do not know how you are supposed to install IBM® SPSS® Modeler Client.

Note: To install IBM SPSS Modeler Client, you must be logged on to your computer with administrator privileges.

Installing from a Downloaded File

Windows XP

▶ Double-click the file that you downloaded and extract the files to some location on your computer.

▶ Using Windows Explorer, browse to the location where you extracted the files and double-click *setup.exe*.

▶ Follow the instructions that appear on the screen. See Notes for Installation for any special instructions.

Windows Vista or Windows 7

You must run the installer as administrator:

▶ Double-click the file that you downloaded and extract all the files to some location on your computer.

▶ Using Windows Explorer, browse to the location where you extracted the files.

▶ Right-click *setup.exe* and choose Run as Administrator.

▶ Follow the instructions that appear on the screen. See Notes for Installation for any special instructions.

Installing from the DVD

Windows XP

▶ Insert the DVD into your DVD drive. The AutoPlay feature presents a menu.

▶ On the AutoPlay menu, click Install IBM SPSS Modeler, and then follow the instructions that appear on the screen. See Notes for Installation for any special instructions.

Windows Vista or Windows 7

You must run the AutoPlay as administrator:

▶ Close the AutoPlay window that automatically appeared when you inserted the DVD into your DVD drive.

► Using Windows Explorer, browse to the DVD drive.

► Right-click *setup.exe* at the root of the DVD and choose Run as Administrator.

► On the AutoPlay menu, click Install IBM SPSS Modeler, and then follow the instructions that appear on the screen. See Notes for Installation for any special instructions.

Invoking the Setup Program Manually

You can also invoke the Setup program manually:

► From the Windows Start menu, choose Run.

► In the Run dialog box, type D:\setup. (If you are not using *D* as the DVD drive, enter the appropriate drive location.)

► Follow the instructions that appear on the screen. See Notes for Installation for any special instructions.

Installing from a Network Location

► Using Windows Explorer, browse to the location that your administrator provided for the *setup.exe* file.

► If your computer is running Windows Vista or 7, right-click *setup.exe* and choose Run as Administrator. Otherwise, double-click the file.

► On the AutoPlay menu, click Install IBM SPSS Modeler, and then follow the instructions that appear on the screen. See Notes for Installation for any special instructions.

Notes for Installation

This section contains special instructions for this installation.

License type. Be sure to select Network License.

Older versions of SPSS Modeler. The installation does not automatically overwrite earlier installations of IBM® SPSS® Modeler. You will need to uninstall older versions using the Windows Control Panel.

License manager server name or IP address. This is the IP address or the name of the server on which the network license manager is running. Contact your administrator if you do not have this information.

Troubleshooting an Installation

Invalid digital signature on installation

SPSS Modeler products use IBM-issued certification for digital signing. In certain circumstances you may see the following error on trying to install SPSS Modeler products:

Error 1330. A file that is required cannot be installed because the cabinet file filename has an invalid digital signature...

Windows XP or Windows Server users

You may see this message when installing under Windows XP or Windows Server 2003, typically with a cabinet file greater than 500MB. To correct this problem, install the following Windows update:

For Windows XP: *http://support.microsoft.com/kb/960554/en-us*

For Windows Server: *http://support.microsoft.com/kb/888303/en-us*

All Windows users

You see this message if you try to install SPSS Modeler products on a machine that has no Internet connection and does not have the correct certificate installed. Use the following procedure to correct this problem.

1. Click OK to acknowledge the message.

2. Click Cancel to exit from the installer.

3. If the machine on which you want to install has no Internet connection, perform the next step on an Internet-connected machine and copy the *.cer* file to the machine where you want to install.

4. From *http://www.verisign.com/support/roots.html*, scroll down to locate the VeriSign Class 3 Primary CA - G5 root Certification Authority (CA). Download this root CA and save it as a *.cer* file.

5. Double-click the *.cer* file.

6. On the General tab, click Install Certificate.

7. Follow the instructions in the Certificate Import Wizard, using the default options and clicking Finish at the end.

8. Retry the installation.

IBM SPSS Modeler Server Access

IBM® SPSS® Modeler Server is available as an optional upgrade, and offers improved scalability and performance on large datasets. If SPSS Modeler Server is available at your site, contact your system administrator for information about servers, user IDs, and passwords.

For more information, see the *IBM SPSS Modeler Server Administration and Performance Guide*, available in the file *ServerandPerformanceGuide.pdf* under the *\Documentation\<language>* folder on the SPSS Modeler Server DVD.

Installation documents can also be downloaded from the web at *http://www-01.ibm.com/support/docview.wss?uid=swg27023172*. Documentation is also available from the SPSS Modeler Information Center at *http://publib.boulder.ibm.com/infocenter/spssmodl/v15r0m0/*.

Configuring IBM SPSS Modeler to Work with IBM SPSS Statistics

To enable IBM® SPSS® Modeler to use the Statistics Transform, Statistics Model, and Statistics Output nodes, you must have a copy of IBM® SPSS® Statistics installed and licensed on the computer where the stream is run.

If running SPSS Modeler in local (standalone) mode, the licensed copy of SPSS Statistics must be on the local computer.

When you have finished installing this copy of SPSS Modeler Client, you will also need to configure it to work with SPSS Statistics. From the main client menu, choose:
Tools > Options > Helper Applications

and on the SPSS Statistics tab, specify the location of the local SPSS Statistics installation you want to use. For more information, see the *Source, Process and Output Nodes* guide or the online help for Helper Applications.

In addition, if running in distributed mode against a remote IBM® SPSS® Modeler Server, you also need to run a utility at the SPSS Modeler Server host to create the *statistics.ini* file, which indicates to SPSS Statistics the installation path for SPSS Modeler Server. To do this, from the command prompt, change to the SPSS Modeler Server*bin* directory and, for Windows, run:

statisticsutility -location=<IBM SPSS Statistics_installation_path>/

Alternatively, for UNIX, run:

./statisticsutility -location=<IBM SPSS Statistics_installation_path>/bin

If you do not have a licensed copy of SPSS Statistics on your local machine, you can still run the Statistics File node against a SPSS Statistics server, but attempts to run other SPSS Statistics nodes will display an error message.

Database Access

To read or write to a database, you must have an ODBC data source installed and configured for the relevant database, with read or write permissions as needed. The IBM® SPSS® Data Access Pack includes a set of ODBC drivers that can be used for this purpose, and these drivers are available on the IBM SPSS Data Access Pack DVD or from the download site. If you have questions about creating or setting permissions for ODBC data sources, contact your database administrator.

Database support in IBM® SPSS® Modeler is classified into three tiers, each representing a different level of support for SQL pushback and optimization, depending on the database vendor. The different levels of support are implemented by means of a number of system settings, which can be customized as part of a Services engagement.

The three tiers of database support are:

Table 1-1
Database support tiers

Support tier	Description
Tier 1	All possible SQL pushback is available, with database-specific SQL optimization.
Tier 2	Most SQL pushback is available, with non-database-specific SQL optimization.
Tier 3	No SQL pushback or optimization—only reading data from, and writing data to, the database.

Supported ODBC Drivers

For the latest information on which databases and ODBC drivers are supported and tested for use with SPSS Modeler 15, see the product compatibility matrices on the corporate Support site (*http://www.ibm.com/support*).

Where to Install Drivers

Note that ODBC drivers must be installed and configured on each computer where processing may occur.

■ If you are running IBM® SPSS® Modeler in local (standalone) mode, the drivers must be installed on the local computer.

■ If you are running SPSS Modeler in distributed mode against a remote IBM® SPSS® Modeler Server, the ODBC drivers need to be installed on the computer where SPSS Modeler Server is installed. For SPSS Modeler Server on UNIX systems, see also "Configuring ODBC drivers on UNIX systems" later in this section.

■ If you need to access the same data sources from both SPSS Modeler and SPSS Modeler Server, the ODBC drivers must be installed on both computers.

■ If you are running SPSS Modeler over Terminal Services, the ODBC drivers need to be installed on the Terminal Services server on which you have SPSS Modeler installed.

■ If you are using the IBM® SPSS® Modeler Solution Publisher Runtime to run published streams on a separate computer, you also need to install and configure ODBC drivers on that computer.

Note: If you are using SPSS Modeler Server on UNIX to access a Teradata database you must use the ODBC Driver Manager that is installed with the Teradata ODBC driver. In order to make this change to SPSS Modeler Server please specify a value for ODBC_DRIVER_MANAGER_PATH near the top of the modelersrv.sh script where indicated by the comments. This environment variable needs to be set to the location of the ODBC Driver Manager that is shipped with the Teradata ODBC driver (/usr/odbc/lib in a Teradata ODBC driver default installation). You must restart SPSS Modeler Server for the change to take effect. For details of the SPSS Modeler Server

platforms that offer support for Teradata access, and the Teradata ODBC driver version that is supported, see the corporate Support site at *http://www.ibm.com/support*.

Configuring ODBC drivers on UNIX systems

By default, the DataDirect Driver Manager is not configured for SPSS Modeler Server on UNIX systems. To configure UNIX to load the DataDirect Driver Manager, enter the following commands:

```
cd modeler_server_install_directory/bin
rm -f libspssodbc.so
ln -s libspssodbc_datadirect.so libspssodbc.so
```

Doing so removes the default link and creates a link to the DataDirect Driver Manager.

In-Database Modeling

IBM® SPSS® Modeler supports integrated modeling, allowing you to make the most of the power of your database by using native algorithms provided by the database vendor. You can build, score, and store models inside the database—all from within the SPSS Modeler application, combining the analytical capabilities and ease-of-use of SPSS Modeler with the power and performance of a database. For specific requirements to support database modeling, see the *SPSS Modeler In-Database Mining Guide*, available under the *\documentation* folder on the installation disk.

Checking Out/In a Commuter License

Network licenses normally require that you are connected to the network to run IBM® SPSS® Modeler Client. If your administrator enabled commuter licenses, you can check out a commuter license to use the network license when you are not connected to the network. For example, you may want to run IBM SPSS Modeler Client on the train when you don't have a network connection. Before disconnecting from your network and catching the train, you could check out a commuter license for a limited amount of time. You will need to reconnect to the network and check the license back in before the time expires. Otherwise, IBM SPSS Modeler Client will stop working.

Network licenses are enabled and configured by your administrator. If you would like to use this feature and can't, check with your administrator.

Important! Even if you are able to run IBM SPSS Modeler Client because you are reconnected to the network, be sure to check the license back in. Doing so will allow other users to take advantage of the commuter license.

Check Out a License

▶ Choose Commuter License in the Windows Start menu program group for IBM SPSS Modeler Client.

▶ Select the license that you want to check out.

▶ In the Duration box, enter the number of days for which you want to check out the license. There is a limit that your administrator configures.

▶ Click Check Out.

The commuter license will expire after the number of days specified by Duration. You can also manually check the license back in at any time.

You may receive a message in the following format:

Error while checkout with error code: <code>

Common codes are as follows.

Code	Meaning
77	All available licenses have been checked out.
1402	Attempt to check out license that has been reserved for another user.

Check In a License

▶ Choose Commuter License in the Windows Start menu program group for IBM SPSS Modeler Client.

▶ Select the license that you want to check in. License(s) that you checked out are indicated by a check mark.

▶ Click Check In.

Uninstalling IBM SPSS Modeler Client

To completely uninstall IBM® SPSS® Modeler Client:

▶ Use the Windows Control Panel to remove IBM SPSS Modeler Client.