Altova StyleVision Server 2024



User & Reference Manual

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1 Introduction

Altova StyleVision Server is an implementation of <u>Altova StyleVision's</u> built-in execution engine. It can be used as a <u>standalone server product</u> or as a module of Altova's <u>FlowForce Server</u>.



StyleVision Server executes transformation packages that are stored on disk or that have been deployed to a FlowForce Server.

- StyleVision Server functionality can be invoked <u>via the command line</u> to run a transformation package and generate the files specified in the package.
- StyleVision Server transformations are initiated by <u>FlowForce Server</u> based on time triggers, file triggers, or remote triggers that are defined in FlowForce Server.

StyleVision Server is available for both 32-bit and 64-bit on Windows machines. For details about installation and licensing, see the setup sections for Windows 11, Linux 19, and macOS 26.

Note: If the fillable parts of a fillable PDF are missing when the PDF is opened on a macOS system, one likely cause is that Java 6 is not installed on the machine. If this is the case, you can install Java 6 from https://support.apple.com/kb/dl1572?locale=en_US. If a version newer than Java 6 has already been installed on your system, then the installation of the older Java 6 version will not affect the working of the newer version, which will be the default version of the system.

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Functionality 7

2 Functionality

StyleVision Server transforms XML files into output HTML, PDF, RTF, and DOCX documents with the use of XSLT stylesheets. These XSLT stylesheets are obtained from PXF files that have been created in Altova's stylesheet designer application, <u>Altova StyleVision</u>.

StyleVision Server can be used in two ways:

- As part of the <u>Altova FlowForce workflow</u> 8. For more information about <u>Altova FlowForce</u>, visit the <u>Altova website</u>.
- As a standalone server product that is accessed via its command line interface (CLI).

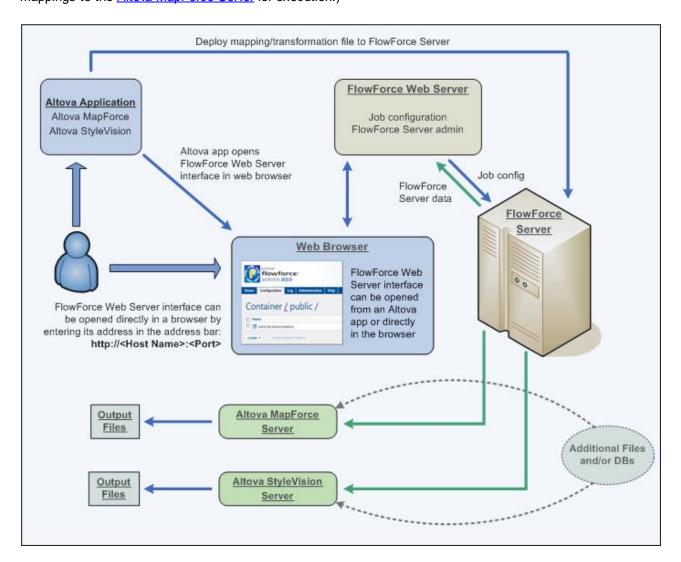
An XML input file and a PXF file are passed to StyleVision Server, which produces the required output document/s.

8 Functionality In the FlowForce Workflow

2.1 In the FlowForce Workflow

A FlowForce job is created in <u>Altova FlowForce Server</u>. The FlowForce job specifies: (i) the inputs and outputs of a StyleVision Server transformation; and (ii) the triggers for when the job is to be executed, such as a specific time every day. At execution time, Altova FlowForce Server passes the transformation instructions to StyleVision Server, which then carries out the transformation.

The role of StyleVision Server in the FlowForce workflow is shown in the diagram below. (The role of MapForce Server in the workflow is also displayed since FlowForce jobs can be created that send <u>Altova MapForce</u> mappings to the <u>Altova MapForce Server</u> for execution.)



Additionally to being invoked by a FlowForce job, StyleVision Server can also be invoked via the command line. Usage is described in the section StyleVision Server Command Line 35.

Functionality As a Standalone Server 9

2.2 As a Standalone Server

StyleVision Server can be installed as a standalone product on Windows, Linux, and macOS systems. In this version its functionality is invoked only via the command line. Usage is described in the section StyleVisionServerCommandLine.

Installation and Licensing 3

This section describes installation, licensing and other setup procedures. It is organized into the following sections:

- Setup on Windows

 Setup on Linux

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- Setup on macOS 26
- Upgrade StyleVision Server 32
- Migrate StyleVision Server to a New Machine 33

3.1 Setup on Windows

This section describes the installation and licensing of StyleVision Server on Windows systems.

System requirements (Windows)

Note the following system requirements:

- Windows 10, Windows 11
- Windows Server 2016 or newer

Prerequisites

Note the following prerequisites:

- Perform installation as a user with administrative privileges.
- From version 2021 onwards, a 32-bit version of StyleVision Server cannot be installed over a 64-bit version, or a 64-bit version over a 32-bit version. You must either (i) remove the older version before installing the newer version or (ii) upgrade to a newer version that is the same bit version as your older installation.

3.1.1 Install on Windows

StyleVision Server is available for installation on Windows systems. The broad installation and setup procedure is described below. For detailed information about specific parts of the installation procedure, see their respective topics.

Installing StyleVision Server

StyleVision Server can be installed on Windows systems as follows:

- As a separate standalone server product. To install StyleVision Server, download and run the StyleVision Server installer. Follow the on-screen instructions.
- To install StyleVision Server as part of the <u>FlowForce Server</u> package, download and run the FlowForce Server installer. Follow the on-screen instructions and make sure you check the option for installing StyleVision Server.

The installers of both StyleVision Server and FlowForce Server are available at the Altova Download Center (http://www.altova.com/download.html). You can select your installation language from the box in the lower left area of the wizard. Note that this selection also sets the default language of StyleVision Server. You can change the language later from the command line.

Installing LicenseServer

In order for StyleVision Server to work, it must be registered and licensed with an <u>Altova LicenseServer</u> on your network. When you install StyleVision Server or FlowForce Server on Windows systems, you can install LicenseServer together with StyleVision Server or FlowForce Server. For details, see <u>Install LicenseServer</u> 14.

After installation, the StyleVision Server executable will be located by default at the following path:

<ProgramFilesFolder>\Altova\StyleVisionServer2024\bin\StyleVisionServer.exe

All the necessary registrations to use StyleVision Server via a COM interface, as a Java interface, and in the .NET environment will be done by the installer.

Installing on Windows Server Core

Windows Server Core has no GUI and must be installed via the command line. See the section <u>Installing on Windows Server Core</u> 12 for information about how to do this.

Uninstalling StyleVision Server

Uninstall StyleVision Server as follows:

- 1. Right-click the Windows **Start** button and select **Settings**.
- 2. Open the Control Panel (start typing "Control Panel" and click the suggested entry).
- 3. Under Programs, click Uninstall a program.
- 4. In Control Panel, select StyleVision Server and click Uninstall.

Evaluation license

During the installation process, you will be given the option of requesting a 30-day evaluation license for StyleVision Server. After submitting the request, an evaluation license will be sent to the email address you registered.

3.1.2 Install on Windows Server Core

Windows Server Core is a minimal Windows installation that does not use a number of GUI features. You can install StyleVision Server on a Windows Server Core machine as follows:

- 1. Download the StyleVision Server installer executable from the Altova website. This file is named styleVisionServer<version>.exe. Make sure to choose the executable matching your server platform (32-bit or 64-bit).
- 2. On a standard Windows machine (not the Windows Server Core machine), run the command stylevisionServer<version>.exe /u. This unpacks the .msi file to the same folder as the installer executable
- 3. Copy the unpacked .msi file to the Windows Server Core machine.
- 4. If you are updating an earlier version of StyleVision Server, shut down StyleVision Server before carrying out the next step.
- 5. Use the .msi file for the installation by running the command msiexec /i StyleVisionServer.msi.
 This starts the installation on Windows Server Core.

Important: Keep the MSI file!

Note the following points:

- Keep the extracted .msi file in a safe place. You will need it later to uninstall, repair, or modify your installation.
- If you want to rename the MSI file, do this before you install StyleVision Server.

 The MSI filename is stored in the registry. You can update its name there if the filename has changed.

Register StyleVision Server with LiceseServer

If you are installing StyleVision Server for the first time or are upgrading to a **major version**, you will need to register StyleVision Server with an Altova LicenseServer on your network. If you are upgrading to a non-major version of StyleVision Server, then the previous LicenseServer registration will be known to the installation and there is no need to register StyleVision Server with LicenseServer. However, if you want to change the LicenseServer that is used by StyleVision Server at any time, then you will need to register StyleVision Server with the new LicenseServer.

To register StyleVision Server with an Altova LicenseServer during installation, run the installation command with the **register_with-license_server** property, as listed below, providing the name or address of the LicenseServer machine as the value of the property, for example:

```
msiexec /i StyleVisionServer.msi REGISTER_WITH_LICENSE_SERVER="localhost"
```

To register StyleVision Server with an Altova LicenseServer after installation, run the following command:

msiexec /r StyleVisionServer.msi REGISTER_WITH_LICENSE_SERVER="<MyLS-IPAddress>"

Useful commands

Given below are a set of commands that are useful in the installation context.

To test the return value of the installation, run a script similar to that below. The return code will be in the <code>%errorlevel%</code> environment variable. A return code of <code>0</code> indicates success.

```
start /wait msiexec /i StyleVisionServer.msi /q
echo %errorlevel%
```

For a silent installation with a return code and a log of the installation process:

```
start /wait msiexec /i StyleVisionServer.msi /q /L*v! <pathToInstallLogFile>
```

To modify the installation:

```
msiexec /m StyleVisionServer.msi
```

To repair the installation:

```
msiexec /r StyleVisionServer.msi
```

To uninstall StyleVision Server:

```
msiexec /x StyleVisionServer.msi
```

To uninstall StyleVision Server silently and report the detailed outcome in a log file:

```
start /wait msiexec /x StyleVisionServer.msi /q /L*v! <pathToUninstallLogFile>
```

To install StyleVision Server using another language (available language codes are: German=de; Spanish=es; French=fr):

```
msiexec /i StyleVisionServer.msi INSTALLER LANGUAGE=<languageCode>
```

Note: On Windows Server Core, the charts and barcode functionality of StyleVision Server will not be available.

Note: To install taxonomies, use the Taxonomy Package Manager via the command line. See the StyleVision Server manual for information about how to do this.

3.1.3 Install LicenseServer (Windows)

In order for StyleVision Server to work, it must be licensed via an <u>Altova LicenseServer</u> on your network. When you install StyleVision Server or FlowForce Server on Windows systems, you can install LicenseServer together with StyleVision Server or FlowForce Server. If a LicenseServer is already installed on your network, you do not need to install another one—unless a newer version of LicenseServer is required. (See next point, <u>LicenseServer versions</u>.)

During the installation process of StyleVision Server or FlowForce Server, check or uncheck the option for installing LicenseServer as appropriate. Note the following points:

- If you have not installed LicenseServer yet, leave the default settings as is. The wizard will install the latest version on the computer where you are running the wizard.
- If you have not installed LicenseServer yet and want to install Altova LicenseServer on another computer, clear the check box *Install Altova LicenseServer on this machine* and choose **Register Later**. In this case, you will need to install LicenseServer separately and register StyleVision Server afterwards.
- If LicenseServer has already been installed on your computer but is a lower version than the one indicated by the installation wizard, leave the default setting (for upgrading to the newer version) as is. In this case, the installation wizard will automatically upgrade your LicenseServer version. The existing registration and licensing information will be carried over to the new version of LicenseServer.
- If LicenseServer has already been installed on your computer or network and has the same version as the one indicated by the wizard, do the following:
 - o Clear the check box Install Altova LicenseServer on this machine.
 - Under Register this product with, choose the LicenseServer with which you want to register StyleVision Server. Alternatively, choose Register Later. Note that you can always select Register Later if you want to ignore the LicenseServer associations and carry on with the installation of StyleVision Server.

For information about how to register and license StyleVision Server with <u>Altova LicenseServer</u>, see the section <u>License StyleVision Server</u> 15.

LicenseServer versions

- Altova products must be licensed either (i) with a version of LicenseServer that corresponds to the installed StyleVision Server version or (ii) with a later version of LicenseServer.
- The LicenseServer version that corresponds to the current version of StyleVision Server is 3.14.
- On Windows, you can install the corresponding version of LicenseServer as part of the StyleVision Server installation or install LicenseServer separately. On Linux amd macOS, you must install LicenseServer separately.
- Before a newer version of LicenseServer is installed, any older one must be de-installed.
- At the time of LicenseServer de-installation, all registration and licensing information held in the older version of LicenseServer will be saved to a database on your server machine. This data will be imported automatically into the newer version when the newer version is installed.
- LicenseServer versions are backwards compatible. They will work with older versions of StyleVision Server.

- The latest version of LicenseServer available on the Altova website. This version will work with any current or older version of StyleVision Server.
- The version number of the currently installed LicenseServer is given at the bottom of the <u>LicenseServer</u> <u>configuration page</u> (all tabs).

3.1.4 License StyleVision Server (Windows)

In order to use StyleVision Server, it must be licensed with Altova LicenseServer. Licensing is a two-step process:

- 1. Register StyleVision Server with LicenseServer. Registration is done from StyleVision Server.
- Assign a license to StyleVision Server from LicenseServer. Download the latest version of LicenseServer from the <u>Altova website</u>, and install it on your local machine or a machine on your network.

These two steps are described in this section. For detailed information, see the <u>LicenseServer user manual</u> at the <u>Altova website</u>.

3.1.4.1 Start LicenseServer, StyleVision Server

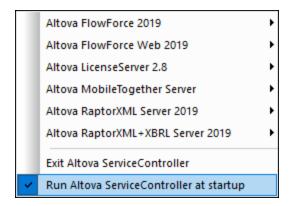
Altova LicenseServer (LicenseServer for short) and StyleVision Server are both started via Altova ServiceController.

Altova ServiceController

Altova ServiceController (ServiceController for short) is an application for conveniently starting, stopping and configuring Altova services **on Windows systems**. ServiceController is installed with Altova LicenseServer and with Altova server products that are installed as services (DiffDog Server, FlowForce Server, Mobile Together Server, and RaptorXML(+XBRL) Server). ServiceController can be accessed via the system tray (*screenshot below*).

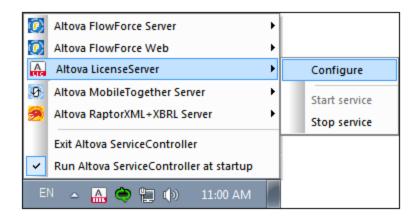


To specify that ServiceController starts automatically on logging in to the system, click the **ServiceController** icon in the system tray to display the **ServiceController** menu (*screenshot below*), and then toggle on the command **Run Altova ServiceController at Startup**. (This command is toggled on by default.) To exit ServiceController, click the **ServiceController** icon in the system tray and, in the menu that appears (*see screenshot below*), click **Exit Altova ServiceController**.



Start LicenseServer

To start LicenseServer, click the **ServiceController** icon in the system tray, hover over **Altova LicenseServer** in the menu that pops up (see screenshot below), and then select **Start Service** from the LicenseServer submenu. If LicenseServer is already running, then the *Start Service* option will be disabled. You can also stop the service via ServiceController.



3.1.4.2 Register StyleVision Server

To be able to license StyleVision Server from Altova LicenseServer, StyleVision Server must be registered with LicenseServer.

To register StyleVision Server from the command line interface, use the licenseserver command and supply the address of the LicenseServer machine (see below).

 ${\tt StyleVisionServer\ licenseserver\ [options]}\ \textit{ServerName-Or-IP-Address}$

For example, if localhost is the name of the server on which LicenseServer is installed, use the following command:

StyleVisionServer licenseserver localhost

If StyleVision Server was installed as part of a <u>FlowForce Server</u> installation, registering FlowForce Server with LicenseServer will automatically also register StyleVision Server. Essentially: (i) Start Altova FlowForce Web as a service via ServiceController (*see previous point*); (ii) Enter your password to access the Setup page; (iii) Select the LicenseServer name or address and click **Register with LicenseServer**. For more information, see Register FlowForce Server.

After successful registration, go to the <u>Client Management tab of LicenseServer's configuration page</u> to assign a license to StyleVision Server.

For more information about registering Altova products with LicenseServer, see the LicenseServer user manual.

3.1.4.3 Assign License

After successfully registering StyleVision Server, it will be listed in the Client Management tab of the configuration page of LicenseServer. Go there and <u>assign a license</u> to StyleVision Server.

The licensing of Altova server products is based on the number of processor cores available on the product machine. For example, a dual-core processor has two cores, a quad-core processor four cores, a hexa-core processor six cores, and so on. The number of cores licensed for a product must be greater than or equal to the number of cores available on that server machine, whether the server is a physical or virtual machine. For example, if a server has eight cores (an octa-core processor), you must purchase at least one 8-core license. You can also combine licenses to achieve the core count. So, two 4-core licenses can also be used for an octa-core server instead of one 8-core license.

If you are using a computer server with a large number of CPU cores but only have a low volume to process, you may also create a virtual machine that is allocated a smaller number of cores and purchase a license for that number. Such a deployment, of course, would have less processing speed than if all available cores on the server were utilized.

Note: Each Altova server product license can be used for only one client machine at a time, even if the license has unused licensing capacity. (A client machine is the machine on which the Altova server product is installed.) For example, if a 10-core license is used for a client machine that has 6 CPU cores, then the remaining 4 cores of licensing capacity cannot be used simultaneously for another client machine.

Single-thread execution

If an Altova server product allows single-thread execution, an option for *Single-thread execution* will be available. In these cases, if an Altova server-product license for only one core is available in the license pool, a machine with multiple cores can be assigned this one-core license. In such a case, the machine will run that product on a single core. Processing will therefore be slower, because multi-threading (which is possible on multiple cores) will not be available. The product will be executed in single thread mode on that machine.

To assign a single-core license to a multiple-core machine in LicenseServer, select the *Limit to single thread* execution check box for that product.

Estimate of core requirements

There are various external factors that influence the data volumes and processing times your server can handle (for example: the hardware, the current load on the CPU, and memory allocation of other applications running on the server). In order to measure performance as accurately as possible, test the applications in your

environment with data volumes and in conditions that approximate as closely as possible to real business situations.

3.1.5 Additional Setup Notes (Windows)

In order to run the Windows examples that are packaged with StyleVision Server in the etc\examples subfolder of the application folder, the StyleVision Server DLL must be correctly registered with the system. A registration error typically occurs if you have, over time, installed different bit-versions of StyleVision Server (32-bit and 64-bit) on a single machine.

To correctly register the StyleVision Server DLL (either the 32-bit or 64-bit version) on Windows machines, do the following:

- 1. Open a command prompt in administrator mode
- 2. Switch to the folder in which the DLL is located. The command to do this would be: cd C:\Program Files\Altova\StyleVisionServer2024\bin
- 3. Run the following command to register the DLL (either 32-bit or 64-bit): regsvr32 StyleVisionServer.dll
- 4. Ensure that you get a popup saying that the registration succeeded
- 5. Open Visual Studio
- 6. Load the project using StyleVisionServerAPI_Sample.sln
- 7. Confirm that your Program.cs file contains valid pathways
- 8. Run the project by using Ctrl+F5

Note: The path to the application folder on Windows systems is typically: C:\Program Files\Altova\StyleVisionServer2024.

3.2 Setup on Linux

This section describes the <u>installation</u> and <u>licensing</u> of StyleVision Server on Linux systems (Debian, Ubuntu, CentOS, RedHat).

System Requirements (Linux)

- Red Hat Enterprise Linux 7 or newer
- CentOS 7, CentOS Stream 8
- Debian 10 or newer
- Ubuntu 20.04, 22.04, 24.04
- AlmaLinux 9.0
- Rocky Linux 9.0

Prerequisites

- Perform installation either as **root** user or as a user with **sudo** privileges.
- The previous version of StyleVision Server must be uninstalled before a new one is installed.
- If you plan to use Altova's Charts functionality, then at least one font must be installed on your system to ensure that charts will be rendered correctly. To list installed fonts, use, for example, the fc-list command of the Fontconfig library.
- The following libraries are required as a prerequisite to install and run the application. If the packages below are not already available on your Linux machine, run the yum command (or apt-get if applicable) to install them.

CentOS, RedHat	Debian	Ubuntu
krb5-libs	libgssapi-krb5-2	libgssapi-krb5-2

3.2.1 Install on Linux

StyleVision Server is available for installation on Linux systems. Do the installation either as root user or a user with sudo privileges.

Integration of FlowForce Server and other Altova server products

If you are installing StyleVision Server together with FlowForce Server, it is recommended that you install FlowForce Server first. If you install StyleVision Server before FlowForce Server, then, after having installed both StyleVision Server and FlowForce Server, run the following command:

```
cp /opt/Altova/StyleVisionServer2024/etc/*.tool /opt/Altova/FlowForceServer2024/tool
s
```

This command copies the .tool file from /etc directory of StyleVision Server to the FlowForce Server /tools directory. The .tool file is required by FlowForce Server. It contains the path to the StyleVision Server executable. You do not need to run this command if you install FlowForce Server before installing StyleVision Server.

Uninstall StyleVision Server

Before you install StyleVision Server, you should uninstall any older version.

To check which Altova server products are installed:

```
[Debian, Ubuntu]: dpkg --list | grep Altova [CentOS, RedHat]: rpm -qa | grep server
```

To uninstall an old version of StyleVision Server:

```
[Debian, Ubuntu]: sudo dpkg --remove stylevisionserver [CentOS, RedHat]: sudo rpm -e stylevisionserver
```

On Debian and Ubuntu systems, it might happen that StyleVision Server still appears in the list of installed products after it has been uninstalled. In this case, run the purge command to clear StyleVision Server from the list. You can also use the purge command *instead* of the remove command listed above.

```
[Debian, Ubuntu]: sudo dpkg --purge stylevisionserver
```

Download the StyleVision Server Linux package

StyleVision Server installation packages for the following Linux systems are available at the Altova website.

Distribution	Package extension
Debian	.deb
Ubuntu	.deb
CentOS	.rpm
RedHat	.rpm

After downloading the Linux package, copy it to any directory on the Linux system. Since you will need to license StyleVision Server with an <u>Altova LicenseServer</u>, you may want to download LicenseServer from the <u>Altova website</u> at the same time as you download StyleVision Server.

Install StyleVision Server

In a terminal window, switch to the directory where you copied the Linux package. For example, if you copied it to a user directory called MyAltova that is located in the /home/User directory, switch to this directory as follows:

```
cd /home/User/MyAltova
```

Install StyleVision Server using the relevant command:

```
[Debian]: sudo dpkg --install stylevisionserver-2024-debian.deb
[Ubuntu]: sudo dpkg --install stylevisionserver-2024-ubuntu.deb
[CentOS]: sudo rpm -ivh stylevisionserver-2024-1.x86_64.rpm
[RedHat]: sudo rpm -ivh stylevisionserver-2024-1.x86_64.rpm
```

You may need to adjust the name of the package above to match the current release or service pack version.

The StyleVision Server package will be installed in the following folder:

/opt/Altova/StyleVisionServer2024

3.2.2 Install LicenseServer (Linux)

In order for StyleVision Server to work, it must be licensed via an <u>Altova LicenseServer</u> on your network. Download LicenseServer from the <u>Altova website</u> and copy the package to any directory. Install it just like you installed StyleVision Server (see <u>previous topic</u> 19).

```
[Debian]: sudo dpkg --install licenseserver-3.14-debian.deb
[Ubuntu]: sudo dpkg --install licenseserver-3.14-ubuntu.deb
[CentOS]: sudo rpm -ivh licenseserver-3.14-1.x86_64.rpm
[RedHat]: sudo rpm -ivh licenseserver-3.14-1.x86_64.rpm
```

The LicenseServer package will be installed at the following path:

```
/opt/Altova/LicenseServer
```

For information about how to register and license StyleVision Server with <u>Altova LicenseServer</u>, see the section <u>License StyleVision Server</u>. Also see the <u>LicenseServer documentation</u> for more detailed information.

LicenseServer versions

- Altova products must be licensed either (i) with a version of LicenseServer that corresponds to the installed StyleVision Server version or (ii) with a later version of LicenseServer.
- The LicenseServer version that corresponds to the current version of StyleVision Server is 3.14.
- On Windows, you can install the corresponding version of LicenseServer as part of the StyleVision Server installation or install LicenseServer separately. On Linux amd macOS, you must install LicenseServer separately.
- Before a newer version of LicenseServer is installed, any older one must be de-installed.
- At the time of LicenseServer de-installation, all registration and licensing information held in the older version of LicenseServer will be saved to a database on your server machine. This data will be imported automatically into the newer version when the newer version is installed.
- LicenseServer versions are backwards compatible. They will work with older versions of StyleVision Server.
- The latest version of LicenseServer available on the Altova website. This version will work with any current or older version of StyleVision Server.
- The version number of the currently installed LicenseServer is given at the bottom of the <u>LicenseServer</u> configuration page (all tabs).

3.2.3 License StyleVision Server (Linux)

In order to use StyleVision Server, it must be licensed with Altova LicenseServer. Licensing is a two-step process:

- Register StyleVision Server with LicenseServer. Registration is done from StyleVision Server.
- Assign a license to StyleVision Server from LicenseServer. Download the latest version of LicenseServer from the <u>Altova website</u>, and install it on your local machine or a machine on your network.

These two steps are described in this section. For detailed information, see the <u>LicenseServer user manual</u> at the <u>Altova website</u>.

3.2.3.1 Start LicenseServer, StyleVision Server

Start Altova LicenseServer and StyleVision Server either as root user or a user with sudo privileges.

Start LicenseServer

To correctly register and license StyleVision Server with LicenseServer, LicenseServer must be running as a daemon on the network. Start LicenseServer as a daemon with the following command:

```
sudo systemctl start licenseserver
```

If at any time you need to stop LicenseServer, replace start with stop in the command above. For example:

sudo systemctl stop licenseserver

3.2.3.2 Register StyleVision Server

To be able to license StyleVision Server from Altova LicenseServer, StyleVision Server must be registered with LicenseServer.

To register StyleVision Server, use the licenseserver command:

sudo /opt/Altova/StyleVisionServer2024/bin/stylevisionserver licenseserver [options]
ServerName-Or-IP-Address

For example, if localhost is the name of the server on which LicenseServer is installed:

sudo /opt/Altova/StyleVisionServer2024/bin/stylevisionserver licenseserver localhost

In the command above, <code>localhost</code> is the name of the server on which LicenseServer is installed. Notice also that the location of the StyleVision Server executable is:

/opt/Altova/StyleVisionServer2024/bin/

After successful registration, go to the <u>Client Management tab of LicenseServer's configuration page</u> to assign a license to StyleVision Server.

For more information about registering Altova products with LicenseServer, see the <u>LicenseServer user manual</u>.

3.2.3.3 Assign License

After successfully registering StyleVision Server, it will be listed in the Client Management tab of the configuration page of LicenseServer. Go there and <u>assign a license</u> to StyleVision Server.

The licensing of Altova server products is based on the number of processor cores available on the product machine. For example, a dual-core processor has two cores, a quad-core processor four cores, a hexa-core processor six cores, and so on. The number of cores licensed for a product must be greater than or equal to the number of cores available on that server machine, whether the server is a physical or virtual machine. For example, if a server has eight cores (an octa-core processor), you must purchase at least one 8-core license. You can also combine licenses to achieve the core count. So, two 4-core licenses can also be used for an octa-core server instead of one 8-core license.

If you are using a computer server with a large number of CPU cores but only have a low volume to process, you may also create a virtual machine that is allocated a smaller number of cores and purchase a license for that number. Such a deployment, of course, would have less processing speed than if all available cores on the server were utilized.

Note: Each Altova server product license can be used for only one client machine at a time, even if the license has unused licensing capacity. (A client machine is the machine on which the Altova server product is installed.) For example, if a 10-core license is used for a client machine that has 6 CPU cores, then the remaining 4 cores of licensing capacity cannot be used simultaneously for another client machine.

Single-thread execution

If an Altova server product allows single-thread execution, an option for *Single-thread execution* will be available. In these cases, if an Altova server-product license for only one core is available in the license pool, a machine with multiple cores can be assigned this one-core license. In such a case, the machine will run that product on a single core. Processing will therefore be slower, because multi-threading (which is possible on multiple cores) will not be available. The product will be executed in single thread mode on that machine.

To assign a single-core license to a multiple-core machine in LicenseServer, select the *Limit to single thread* execution check box for that product.

Estimate of core requirements

There are various external factors that influence the data volumes and processing times your server can handle (for example: the hardware, the current load on the CPU, and memory allocation of other applications running on the server). In order to measure performance as accurately as possible, test the applications in your environment with data volumes and in conditions that approximate as closely as possible to real business situations.

3.2.4 Notes about Environment (Linux)

Folders

Given below is a list of important folders in your StyleVision Server setup.

■ Installation root

/opt/Altova/StyleVisionServer2024/

■ License Files

/var/opt/Altova/StyleVisionServer

■ Environment settings

/etc/profile.d/jdbc.sh

The environment settings file (typically named jdbc.sh) is executed at system start. The definitions in it must be specific to your particular environment. The example path above serves only as a general guide.

Note: The environment settings file sets the variables for **all users** on the system, so you must be careful when modifying settings. For example, if you modify a class path in this file, then the modifications will be applied across the system. If you wish to make changes for StyleVision Server only, you might want to consider using a unit file (explained in the section *JDBC Connections* below).

Database connections

On Linux, the following database connections are supported:

- JDBC You can use JDBC for all supported databases except Microsoft Access
- Native connections Currently available for SQLite and PostgreSQL databases

If you are using JDBC, note the following points:

- The Java Runtime Environment or SDK must be installed.
- The JDBC drivers for the target database must be installed.
- The following environment variables must be set correctly for your environment:
 - o CLASSPATH: to find the jar-files that connect to the JDBC database; the jar-files can be entered either in (i) an executable script (like jdbc.sh) that is executed on system start or (ii) a unit file that is executed when StyleVision Server is started as a service. Using a unit file to specify the jar-files has the advantage that the files required for StyleVision Server's JDBC connections will be located without you having to modify the existing system configuration. A unit file is listed below.
 - o PATH: to find the JRE, but might not be necessary depending on the installation
 - o JAVA_HOME: if necessary, depending on the installation.

Listing of important files

The following shell script (or unit file) is copied to the folder /opt/Altova/StyleVisionServer/etc so as not to overwrite already existing configuration files. Make the necessary changes as required. Also see the section *JDBC Connections* above. The parts highlighted in blue are environment-specific and need to be adjusted to match your environment:

■ Shell script (unit file)

```
#- jdbc - environment -
export PATH=/usr/local/jdk1.7.0_17/bin:/usr/lib64/qt-
3.3/bin:/usr/local/bin:/bin:/usr/bin:/usr/local/sbin:/usr/sbin:/sbin:/home/qa/bin
export JAVA_HOME=/usr/local/jdk1.7.0_17
export
CLASSPATH=/usr/local/jdbc/oracle/ojdbc6.jar:/usr/local/jdbc/oracle/xdb.jar:/usr/local/jdbc/oracle/xmlparserv2.jar:/usr/local/jdbc/postgre/postgresq1-9.0-
801.jdbc4.jar:/usr/local/jdbc/mssq1/sqljdbc4.jar:/usr/local/jdbc/iseries/lib/jt400.jar:/usr/local/jdbc/mysq1/mysq1-connector-java-5.1.16-
bin.jar:/usr/local/jdbc/sqlite/sqlitejdbc-
v056.jar:/usr/local/jdbc/Informix_JDBC_Driver/lib/ifxjdbc.jar:/usr/local/jdbc/sybase/jconn7/jconn4.jar:/usr/local/jdbc/db2/db2jcc.jar:/usr/local/jdbc/db2jcc_license_cu.ja
r:./:
```

3.3 Setup on macOS

This section describes the installation and licensing of StyleVision Server on macOS systems.

System Requirements (macOS)

Note the following system requirements:

macOS 12 or newer

Prerequisites

Note the following prerequisites:

- Ensure that Altova LicenseServer has been installed and is running.
- Perform installation either as the root user or as a user with sudo privileges.
- The previous version of StyleVision Server must be uninstalled before a new one is installed.
- If you plan to use Altova's Charts functionality, then at least one font must be installed on your system to ensure that charts will be rendered correctly. To list installed fonts, use, for example, the fc-list command of the Fontconfig library.
- The macOS machine must be configured so that its name resolves to an IP address. This means that
 you must be able to successfully ping the host name from the Terminal using the command ping
 <hostname>.

3.3.1 Install on macOS

This topic describes the installation and setup of StyleVision Server on macOS systems.

Integration with FlowForce

If you are installing StyleVision Server together with FlowForce Server, it is recommended that you install FlowForce Server first. If you install StyleVision Server before FlowForce Server, then, after having installed both, run the following command:

cp /usr/local/Altova/StyleVisionServer2024/etc/*.tool /usr/local/Altova/FlowForceServer2024
/tools

This command copies the .tool file from /etc directory of StyleVision Server to the FlowForce Server /tools directory. The .tool file is required by FlowForce Server. It contains the path to the StyleVision Server executable. You do not need to run this command if you install FlowForce Server before installing StyleVision Server.

Uninstall StyleVision Server

In the Applications folder in Finder, right-click the StyleVision Server icon and select **Move to Trash**. The application will be moved to Trash. You will, however, still need to remove the application from the usr folder. Do this with the following command:

sudo rm -rf /usr/local/Altova/StyleVisionServer2024/

If you need to uninstall an old version of Altova LicenseServer, you must first stop it running as a service. Do this with the following command:

sudo launchctl unload /Library/LaunchDaemons/com.altova.LicenseServer.plist

To check whether the service has been stopped, open the Activity Monitor in Finder and make sure that LicenseServer is not in the list. Then proceed to uninstall in the same way as described above for StyleVision Server.

Install StyleVision Server

To install StyleVision Server, do the following:

- 1. Download the disk image (.dmg) file of StyleVision Server from the Altova website (http://www.altova.com/download.html).
- 2. Click to open the downloaded disk image (.dmg). This causes the StyleVision Server installer to appear as a new virtual drive on your computer.
- 3. On the new virtual drive, double-click the installer package (.pkg).
- 4. Go through the successive steps of the installer wizard. These are self-explanatory and include one step in which you have to agree to the license agreement before being able to proceed. See also Licensing StyleVision Server 28.
- 5. To eject the drive after installation, right-click it and select **Eject**.

The StyleVision Server package will be installed in the folder:

```
/usr/local/Altova/StyleVisionServer2024 (application binaries)
/var/Altova/StyleVisionServer (data files: database and logs)
```

The StyleVision Server server daemon starts automatically after installation and a re-boot of the machine. You can always start StyleVision Server as a daemon with the following command:

sudo launchctl load /Library/LaunchDaemons/com.altova.StyleVisionServer2024.plist

3.3.2 Install LicenseServer (macOS)

Altova LicenseServer can be downloaded from the Altova website (http://www.altova.com/download.html). Carry out the installation as described here²⁶.

The LicenseServer package will be installed in the following folder:

/usr/local/Altova/LicenseServer

For information about how to register StyleVision Server with <u>Altova LicenseServer</u> and license it, see <u>Licensing on macOS</u> ²⁸.

LicenseServer versions

Altova products must be licensed either (i) with a version of LicenseServer that corresponds to the

- installed StyleVision Server version or (ii) with a later version of LicenseServer.
- The LicenseServer version that corresponds to the current version of StyleVision Server is 3.14.
- On Windows, you can install the corresponding version of LicenseServer as part of the StyleVision Server installation or install LicenseServer separately. On Linux amd macOS, you must install LicenseServer separately.
- Before a newer version of LicenseServer is installed, any older one must be de-installed.
- At the time of LicenseServer de-installation, all registration and licensing information held in the older version of LicenseServer will be saved to a database on your server machine. This data will be imported automatically into the newer version when the newer version is installed.
- LicenseServer versions are backwards compatible. They will work with older versions of StyleVision Server.
- The latest version of LicenseServer available on the Altova website. This version will work with any current or older version of StyleVision Server.
- The version number of the currently installed LicenseServer is given at the bottom of the <u>LicenseServer</u> configuration page (all tabs).

3.3.3 License StyleVision Server (macOS)

In order to use StyleVision Server, it must be licensed with Altova LicenseServer. Licensing is a two-step process:

- 1. Register StyleVision Server with LicenseServer. Registration is done from StyleVision Server.
- Assign a license to StyleVision Server from LicenseServer. Download the latest version of LicenseServer from the <u>Altova website</u>, and install it on your local machine or a machine on your network.

These two steps are described in this section. For detailed information, see the <u>LicenseServer user manual</u> at the <u>Altova website</u>.

3.3.3.1 Start LicenseServer, StyleVision Server

Start Altova LicenseServer and StyleVision Server either as root user or a user with sudo privileges.

Start LicenseServer

To correctly register and license StyleVision Server with LicenseServer, LicenseServer must be running as a daemon. Start LicenseServer as a daemon with the following command:

sudo launchctl load /Library/LaunchDaemons/com.altova.LicenseServer.plist

If at any time you need to stop LicenseServer, replace load with unload in the command above.

3.3.3.2 Register StyleVision Server

To be able to license StyleVision Server from Altova LicenseServer, StyleVision Server must be registered with LicenseServer.

To register StyleVision Server from the command line interface, use the licenseserver command:

sudo /usr/local/Altova/StyleVisionServer2024/bin/StyleVisionServer licenseserver
[options] ServerName-Or-IP-Address

For example, if localhost is the name of the server on which LicenseServer is installed:

sudo /usr/local/Altova/StyleVisionServer2024/bin/StyleVisionServer licenseserver
localhost

In the command above, localhost is the name of the server on which LicenseServer is installed. Notice also that the location of the StyleVision Server executable is:

/usr/local/Altova/StyleVisionServer2024/bin/

After successful registration, go to the <u>Client Management tab of LicenseServer's configuration page</u> to assign a license to StyleVision Server.

For more information about registering Altova products with LicenseServer, see the LicenseServer user manual.

3.3.3.3 Assign License

After successfully registering StyleVision Server, it will be listed in the Client Management tab of the configuration page of LicenseServer. Go there and <u>assign a license</u> to StyleVision Server.

The licensing of Altova server products is based on the number of processor cores available on the product machine. For example, a dual-core processor has two cores, a quad-core processor four cores, a hexa-core processor six cores, and so on. The number of cores licensed for a product must be greater than or equal to the number of cores available on that server machine, whether the server is a physical or virtual machine. For example, if a server has eight cores (an octa-core processor), you must purchase at least one 8-core license. You can also combine licenses to achieve the core count. So, two 4-core licenses can also be used for an octa-core server instead of one 8-core license.

If you are using a computer server with a large number of CPU cores but only have a low volume to process, you may also create a virtual machine that is allocated a smaller number of cores and purchase a license for that number. Such a deployment, of course, would have less processing speed than if all available cores on the server were utilized.

Note: Each Altova server product license can be used for only one client machine at a time, even if the license has unused licensing capacity. (A client machine is the machine on which the Altova server product is installed.) For example, if a 10-core license is used for a client machine that has 6 CPU cores, then the remaining 4 cores of licensing capacity cannot be used simultaneously for another client machine.

Single-thread execution

If an Altova server product allows single-thread execution, an option for *Single-thread execution* will be available. In these cases, if an Altova server-product license for only one core is available in the license pool, a machine with multiple cores can be assigned this one-core license. In such a case, the machine will run that product on a single core. Processing will therefore be slower, because multi-threading (which is possible on multiple cores) will not be available. The product will be executed in single thread mode on that machine.

To assign a single-core license to a multiple-core machine in LicenseServer, select the *Limit to single thread* execution check box for that product.

Estimate of core requirements

There are various external factors that influence the data volumes and processing times your server can handle (for example: the hardware, the current load on the CPU, and memory allocation of other applications running on the server). In order to measure performance as accurately as possible, test the applications in your environment with data volumes and in conditions that approximate as closely as possible to real business situations.

3.3.4 Notes about Environment (macOS)

Folders

Given below is a list of important folders in your StyleVision Server setup.

■ Installation root

/usr/local/Altova/StyleVisionServer2024/

■ <u>License Files</u>

/var/Altova/StyleVisionServer

■ Environment settings

/Library/LaunchDaemons/com.altova.StyleVisionServer.plist

The environment settings file must be defined according to your specific environment. The example path above serves only as a general guide.

Note: These environment variables are only set for the StyleVision Server process and do not have an impact on other users.

Database connections

On MacOS, the following database connections are supported:

- JDBC You can use JDBC for all supported databases except Microsoft Access
- Native connections Currently available for SQLite and PostgreSQL databases

If you are using JDBC, note the following points:

• The Java Runtime Environment or SDK must be installed.

- The JDBC-Connects for the target database must be installed.
- The following environment variables must be set correctly for your environment:
 - O CLASSPATH: to find the jar-files; the class path is set in the Plist file.
 - o PATH: to find the JRE, but might not be necessary depending on the installation
 - o JAVA_HOME: if necessary, depending on the installation

Java 6 for fillable PDF forms

If the fillable parts of a fillable PDF are missing when the PDF is opened on a Mac OS system, one likely cause is that Java 6 is not installed on the machine. If this is the case, you can install Java 6 from https://support.apple.com/kb/dl1572?locale=en_US. If a version newer than Java 6 has already been installed, then the installation of the older Java 6 version will not affect the working of the newer version, which will be the default version of the system.

3.4 Upgrade StyleVision Server

The simplest way to carry over a license from the previous version of StyleVision Server to a newer version is via the installation process. The key steps during installation are:

- 1. Register the new version of StyleVision Server with the LicenseServer that holds the license of the older version of StyleVision Server.
- 2. Accept the license agreement of StyleVision Server. (If you do not accept the agreement, the new version will not be installed.)

Note: If you do not register StyleVision Server with LicenseServer during the installation process, you can do this later and then complete the licensing process.

3.5 Migrate StyleVision Server to a New Machine

If you want to migrate StyleVision Server from one machine to another (including across supported platforms), follow the guidelines below.

Migrating StyleVision Server to a new machine consists of re-assigning the license from the old machine to the new machine. Do this as follows:

- 1. Install StyleVision Server on the new machine. If it has already been installed as part of FlowForce Server installation, ignore this step.
- 2. On the new machine, register StyleVision Server with Altova LicenseServer.
- 3. On the old machine, make sure no clients are using the server.
- 4. Open the Altova LicenseServer administration page. Deactivate the license from the old StyleVision Server machine and re-assign it to the new machine.

3.6 FOP Requirements

By default, StyleVision Server uses the FO processor of the <u>Apache FOP Project</u> when it generates PDF documents via its generate command. (You can select some other FO processor with the setfopath command.)

FOP will have been installed with StyleVision Server. On Windows systems FOP is installed in the folder c: \ProgramData\Altova\SharedBetweenVersions. On Linux and macOS systems, it is installed in a descendant folder of styleVisionServer2024.

For information about running FOP 2.9, see the <u>page on this topic</u> at the Apache.org website. (If you are using another version of FOP, go to the corresponding page of that FOP version.)

Java Runtime Environment

To create PDFs, FOP requires that Java Runtime Environment (JRE) be installed on your machine. Check the minimum JRE version required for your version of FOP at the <u>Apache.org website</u>. For example, for version FOP 2.8, a JRE 1.8 or later is required. If JRE is not installed and you try to run FOP to generate a PDF, you will get a message saying there was an error on calling FOP.

Setting up OpenJDK

StyleVision Server has been tried regularly with the latest available OpenJDK version. At the time of writing, the latest version is 19.0.2. After you have downloaded and unzipped your OpenJDK package, make sure (i) to add the the java\bin path to the system paths and (ii) to set the java_HOME environment variable.

On Windows, set the JAVA_HOME environment variable as follows:

- 1. On the Windows taskbar, right-click the Windows icon and select System.
- 2. In the Settings window, under Related Settings, click Advanced System Settings.
- 3. On the Advanced tab, click Environment Variables.
- 4. Click New to create a new environment variable and name it JAVA_HOME.
- 5. Set the value of the environment variable. For example, on a C:\Programs\openjdk\bin\java.exe set the value to C:\Programs\openjdk.

4 StyleVision Server Command Line

Default location of StyleVision Server executable

Given below are the default locations of the StyleVision Server executable:

```
Linux /opt/Altova/StyleVisionServer2024/bin/stylevisionserver

Mac /usr/local/Altova/StyleVisionServer2024/bin/stylevisionserver

Windo <ProgramFilesFolder>\Altova\StyleVisionServer2024\bin\StyleVisionServer.exe
```

Usage and list of CLI commands

The command line syntax is:

```
stylevisionserver --h | --help | --version | <command> [options] [arguments]
```

- --help (short form --h) displays the help text of the given command. If no command is named, then all commands of the executable are listed, each with a brief description of the command.
- --version displays the version number of StyleVision Server.
- <command> is the command to execute. Commands are described in the sub-sections of this section (see list below).
- [options] are the options of a command; they are listed and described with their respective commands.
- [arguments] are the arguments of a command; they are listed and described with their respective commands.
- Casing and slashes on the command line

```
StyleVisionServer on Windows stylevisionserver on Windows and Unix (Linux, Mac)
```

- * Note that lowercase (stylevisionserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (StylevisionServer) works only on Windows and Mac.
- * Use forward slashes on Linux and Mac, backslashes on Windows.

CLI commands

Available commands are listed below and are explained in the sub-sections of this section.

- <u>assignlicense</u> 37: Uploads a license to LicenseServer and assigns this license to StyleVision Server.
- <u>exportresourcestrings</u> ³⁹: Exports all application resource strings to an XML file.
- generate 41: Generates one or several documents from an input XML file and an XSLT stylesheet in the input PXF file.
- help 46: Displays information about the command that is submitted in the argument (or about all commands if no argument is submitted).
- <u>licenseserver</u> Registers StyleVision Server with a LicenseServer on the local network.
- pdfdata 49: Generates form data from a PDF file to an FDF or XML file.

- setdeflang 51: Sets the default language of StyleVision Server.

 setfopath 52: Selects an alternative FO processor for subsequent PDF generation.

 verifylicense 54: Checks if current StyleVision Server is licensed and, optionally, whether it is licensed with the given license key.

 <u>version</u>

 55

 : Displays the version number of StyleVision Server.

4.1 assignlicense

Syntax and description

The assignlicense command uploads a license file to the Altova LicenseServer with which StyleVision Server is registered (see the licenseserver command), and assigns the license to StyleVision Server. It takes the path of a license file as its argument. The command also allows you to test the validity of a license.

stylevisionserver assignlicense [options] FILE

- The FILE argument takes the path of the license file.
- The --test-only option uploads the license file to LicenseServer and validates the license, but does not assign the license to StyleVision Server.

For details about licensing, see the LicenseServer documentation (https://www.altova.com/manual/en/licenseserver/3.14/).

Casing and slashes on the command line

```
StyleVisionServer on Windows stylevisionserver on Windows and Unix (Linux, Mac)
```

- * Note that lowercase (stylevisionserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (StyleVisionServer) works only on Windows and Mac.
- * Use forward slashes on Linux and Mac, backslashes on Windows.
- ▼ Backslashes, spaces, and special characters on Windows systems

On Windows systems: When spaces or special characters occur in strings (for example in file or folder names, or company, person or product names), use quotes: for example, "My File". Note, however, that a backslash followed by a double-quotation mark (for example, "C:\My directory\") might not be read correctly. This is because the backslash character is also used to indicate the start of an escape sequence, and the escape sequence \" stands for the double-quotation mark character. If you want to escape this sequence of characters, use a preceding backslash, like this: \\". To summarize: If you need to write a file path that contains spaces or an end backslash, write it like this: "C:\My Directory\\".

Examples

Examples of the assignlicense command:

```
stylevisionserver assignlicense C:\licensepool\mylicensekey.altova_licenses stylevisionserver assignlicense --test-only=true C:\licensepool\mylicensekey.altova_licenses
```

- The first command above uploads the specified license to LicenseServer and assigns it to StyleVision Server
- The last command uploads the specified license to LicenseServer and validates it, without assigning it to StyleVision Server.

Options

Options are listed in short form (if available) and long form. You can use one or two dashes for both short and long forms. An option may or may not take a value. If it takes a value, it is written like this: --option=value. Values can be specified without quotes except in two cases: (i) when the value string contains spaces, or (ii) when explicitly stated in the description of the option that quotes are required. If an option takes a Boolean value and no value is specified, then the option's default value is TRUE. Use the --h, --help option to display information about the command.

▼ test-only [t]

```
--t, --test-only = true false
```

Values are true | false. If true, then the license file is uploaded to LicenseServer and validated, but not assigned.

4.2 exportresourcestrings

Syntax and description

The exportresourcestrings command outputs an XML file containing the resource strings of the StyleVision Server application in the specified language. Available export languages are English (en), German (de), Spanish (es), French (fr), and Japanese (ja).

stylevisionserver exportresourcestrings [options] LanguageCode XMLOutputFile

- The *LanguageCode* argument gives the language of the resource strings in the output XML file; this is the *export language*. Allowed export languages (with their language codes in parentheses) are: English (en), German, (de), Spanish (es), French (fr), and Japanese (ja).
- The xmLoutputFile argument specifies the path and name of the output XML file.

How to create localizations is described below.

Casing and slashes on the command line

```
StyleVisionServer on Windows stylevisionserver on Windows and Unix (Linux, Mac)
```

- * Note that lowercase (stylevisionserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (StylevisionServer) works only on Windows and Mac.
- * Use forward slashes on Linux and Mac, backslashes on Windows.
- Backslashes, spaces, and special characters on Windows systems

On Windows systems: When spaces or special characters occur in strings (for example in file or folder names, or company, person or product names), use quotes: for example, "My File". Note, however, that a backslash followed by a double-quotation mark (for example, "C:\My directory\") might not be read correctly. This is because the backslash character is also used to indicate the start of an escape sequence, and the escape sequence \" stands for the double-quotation mark character. If you want to escape this sequence of characters, use a preceding backslash, like this: \\". To summarize: If you need to write a file path that contains spaces or an end backslash, write it like this: "C:\My Directory\\".

Examples

Examples of the exportresourcestrings command:

stylevisionserver exportresourcestrings de c:\Strings.xml

• The command above creates a file called Strings.xml at c:\ that contains the resource strings of StyleVision Server in German.

Creating localized versions of StyleVision Server

You can create a localized version of StyleVision Server for any language of your choice. Five localized versions (English, German, Spanish, French, and Japanese) are already available in the C:\Program Files

(x86)\Altova\StyleVisionServer2024\bin folder, and therefore do not need to be created.

Create a localized version as follows:

- 1. Generate an XML file containing the resource strings by using the exportresourcestrings command (see command syntax above). The resource strings in this XML file will be one of the five supported languages: English (en), German (de), Spanish (es), French (fr), or Japanese (ja), according to the LanguageCode argument used with the command.
- 2. Translate the resource strings from one of the five supported languages into the target language. The resource strings are the contents of the <string> elements in the XML file. Do not translate variables in curly brackets, such as {option} or {product}.
- 3. Contact Altova Support to generate a localized StyleVision Server DLL file from your translated XML file.
- 4. After you receive your localized DLL file from Altova Support, save the DLL in the C:\Program Files (x86)\Altova\StyleVisionServer2024\bin folder. Your DLL file will have a name of the form StyleVisionServer2024_lc.dll. The _lc part of the name contains the language code. For example, in StyleVisionServer2024_de.dll, the de part is the language code for German (Deutsch).
- 5. Run the setdeflang command to set your localized DLL file as the StyleVision Server application to use. For the argument of the setdeflang command, use the language code that is part of the DLL name.

Note: Altova StyleVision Server is delivered with support for five languages: English, German, Spanish, French, and Japanese. So you do not need to create a localized version of these languages. To set any of these languages as the default language, use StyleVision Server's setdeflang command.

4.3 generate

Syntax and description

The generate command (short form gen) generates one or more output files (HTML, PDF, RTF, and/or DOCX) by transforming the input XML file using the XSLT document/s contained in the input PXF file.

stylevisionserver generate | gen --inputxml=Filename [additional options] InputPXF

- The --inputxml option is mandatory; it gives the path to the XML file.
- The *InputPXF* argument specifies the path to the PXF file which contains the XSLT document/s that will be used to generate the output document/s. PXF files are created with <u>Altova's StyleVision application</u>.
- Each output format is generated by specifying an option for that output (see Options list below). The value of each option is a path that specifies where the output is to be generated.

Note: StyleVision Server uses <u>Apache FOP</u>, the FO processor of the Apache Project, to generate PDF files from FO. Apache FOP is installed with StyleVision Server at the following location: On Windows systems, <u>ProgramData\Altova\SharedBetweenVersions</u>; on Linux and macOS systems, in a descendant folder of the StyleVisionServer2024 folder. Note that Apache FOP requires that **Java Runtime Environment 1.8 or later** be installed on the StyleVision Server machine. For 32-bit StyleVision Server, install the 32-bit Java; for 64-bit StyleVision Server, install the 64-bit Java. For more information about setting up FOP, see the topic <u>FOP Requirements</u>

AltovaFOPServer for faster PDF generation

If you will be running multiple transformations to PDF, especially of large documents, you might want to use AltovaFOPServer to carry out the job faster. The increase in job speed occurs because AltovaFOPServer keeps the Java VM and FOP jar files loaded, thus saving the time required to load these files for each transformation. AltovaFOPServer will be installed with your StyleVision package. To use it for transformations, you must first start AltovaFOPServer via the command line.

Start AltovaFOPServer

The syntax of the command to start AltovaFOPServer is:

```
java -cp "{classPath}" {className} --pid "{pidFile} --port {portNumbers}
```

An example CLI command to start AltovaFOPServer:

```
java -cp "C:\Program Files\Altova\Common2024\jar\gson\gson.jar;C:\Program
Files\Altova\Common2024\jar\AltovaFOPServer.jar"
com.altova.stylevision.fopserver.Main --pid "C:
\Users\user\AppData\Local\Temp\AltovaFopServer.pid" --port 9090-9103,9999
```

The classPath argument must contain the paths to the gson.jar and AltovaFOPServer.jar files. Enter the correct locations of these files.

Call AltovaFOPServer in StyleVision Server

After the AltovaFOPServer has been started, you can call it from StyleVision Server by using the generate command with either the altova-fopserver-pid-file or altova-fopserver-port option (see Options below).

Casing and slashes on the command line

```
StyleVisionServer on Windows stylevisionserver on Windows and Unix (Linux, Mac)
```

- * Note that lowercase (stylevisionserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (StylevisionServer) works only on Windows and Mac.
- * Use forward slashes on Linux and Mac, backslashes on Windows.
- Backslashes, spaces, and special characters on Windows systems

On Windows systems: When spaces or special characters occur in strings (for example in file or folder names, or company, person or product names), use quotes: for example, "My File". Note, however, that a backslash followed by a double-quotation mark (for example, "C:\My directory\") might not be read correctly. This is because the backslash character is also used to indicate the start of an escape sequence, and the escape sequence \" stands for the double-quotation mark character. If you want to escape this sequence of characters, use a preceding backslash, like this: \\". To summarize: If you need to write a file path that contains spaces or an end backslash, write it like this: "C:\My Directory\\".

Examples

Examples of the generate command:

```
stylevisionserver generate --inputxml=C:\MyFiles\ExpReport.xml --html=Test.html
ExpReport.pxf
stylevisionserver generate --inputxml=C:\ExpReport.pxf|zip\ExpReport.xml --
html=Test.html ExpReport.pxf
stylevisionserver generate --inputxml=altova://packagedfile/ExpReport.xml --
html=Test.html ExpReport.pxf
stylevisionserver generate --inputxml=ExternalXML.xml --html=Test.html Test.pxf
```

- The commands above contain the mandatory --inputxml option, the InputPXF argument (Test.pxf), and a minimum of one output-creation option (--html in all the examples above).
- The input XML file to use can be located inside the PXF file (see second and third examples above) or it can be an external XML file (located outside the PXF file; see first and fourth examples above).
- The --inputxml switch is ignored if the main schema source is DB or DB-XML, but it must be present for syntactical reasons, and you should use something like --inputxml=database.
- If the output-creation option --html takes a relative path, as in the examples above, then the output file's location will be relative to the folder in which the PXF file is.

Options

inputxml [xml]

```
--xml, --inputxml = PathToXMLFile
```

This option is mandatory. It specifies the path to the XML file to process. The XML file can be located inside or outside the PXF file. To target XML files inside a PXF file, use the |zip locator (see the highlighted part in the examples above). The --inputxml option is ignored if the main schema source of the input PXF is a DB or DB-XML.

dbwhere [dbw]

```
--dbw, --dbwhere = WHEREClause
```

An SQL WHERE clause that determines what rows of a DB-XML source to process.

param [p]

```
--p, --param = $ParamName:ParamValue
```

Assigns a value to a parameter defined in the PXF file. The --param switch must be used before each parameter. Use quotes if <code>ParamName</code> or <code>ParamValue</code> contains a space. Example: -- p=\$company: "Nanonull Inc"

prohibit-output-outside-target-folder

```
--prohibit-output-outside-target-folder = true false
```

Values are true | false. If true, does not allow the creation of output in any folder other than that in which the main output file (HTML, PDF, RTF, DOCX, FO) is created. This provides protection for other folders if needed. Default is false.

outhtml [html]

```
--html, --outhtml = FilePath
Path to the HTML file to generate.
```

outpdf [pdf]

```
--pdf, --outpdf = FilePath
Path to the PDF file to generate.
```

outrtf [rtf]

```
--rtf, --outrtf = FilePath
Path to the RTF file to generate.
```

outdocx [docx]

```
--docx, --outdocx = FilePath
Path to the DOCX file to generate.
```

outtext [text]

```
--text, --outtext = FilePath
Path to the Text file to generate.
```

outfo [fo]

```
--fo, --outfo = FilePath Path to the FO file to generate.
```

generate-html-output-as-mime

--generate-html-output-as-mime = true false

Values are true | false. If the option is not specified, default is false, if specified with no value, then true. If true, HTML output is generated as a mime stream.

altova-fopserver-pid-file

--altova-fopserver-pid-file = PathToFile

The path to the PID file to use for connecting to a running AltovaFOPServer. You can connect to AltovaFOPServer via either the server's PID file or a port. This PID option is an alternative to the port option (see next option). For more information about using AltovaFOPServer, see the general description of the generate command above.

altova-fopserver-port

--altova-fopserver-port = Value

A port number or a list of port numbers to use for connecting to a running AltovaFOPServer. The port numbers in a list are separated by commas. Instead of a single number in the list, you can use a range. So you can submit 9090-9100,9999 as the value of this option. Note that you can connect to AltovaFOPServer via either the AltovaFOPServer's PID file or a port. This port option is an alternative to the PID option (see previous option). For more information about using AltovaFOPServer, see the general description of the generate command above.

taxonomy-package

```
--taxonomy-package = FilePath
```

Path to an additional taxonomy package. Add the option multiple times to specify more than one taxonomy package.

taxonomy-packages-config-file

```
--taxonomy-packages-config-file = FilePath
```

Path to the TaxonomyPackagesConfig.json file, which is a common file used by the Altova products XMLSpy, MapForce, and StyleVision to configure XBRL taxonomies for use across these products.

verbose [v]

```
--v, --verbose = true false
```

Values are true | false. Turns the display of all messages, respectively, on or off. Default is false if the option is not provided, true if provided without a value.

lang [l]

```
--1, --lang = en de es fr ja
```

The language used for displaying messages.

Use the --h, --help option to display information about the command.

Options are listed in short form (if available) and long form. You can use one or two dashes for both short and long forms. An option may or may not take a value. If it takes a value, it is written like this: --option=value. Values can be specified without quotes except in two cases: (i) when the value string contains spaces, or (ii) when explicitly stated in the description of the option that quotes are required. If an option takes a Boolean value and no value is specified, then the option's default value is TRUE. Use the --h, --help option to display

information about the command.

Catalogs

If you are using the Altova catalog mechanism, you can find the relevant catalog files in the etc folder of the StyleVision Server application folder. For detailed information, see the <u>Catalogs section of the Altova StyleVision manual</u>.

You can create CustomCatalog.xml from the template file CustomCatalog_template.xml. Make sure that you rename the template file to CustomCatalog.xml since this latter file will be the file that is used in the catalog mechanism (not the template file).

Note the following:

- During a new installation of the same major version (same or different minor versions), the template file will be replaced by a new template file, but CustomCatalog.xml will be left untouched.
- However, if you are installing a new major version over a previous major version, then the previous major version folder will be deleted—together with its CustomCatalog.xml. So, if you want to continue using CustomCatalog.xml, make sure that you save CustomCatalog.xml from the previous major version folder to a safe place. After the new major version has been installed, you can copy the CustomCatalog.xml that you saved to the etc folder of the new major version and edit it there as required.

4.4 help

Syntax and description

The help command takes a single argument (Command), which is the name of the command for which help is required. It displays the command's syntax, its options, and other relevant information. If the Command argument is not specified, then all commands of the executable are listed, with each having a brief text description.

stylevisionserver help Command

Casing and slashes on the command line

```
StyleVisionServer on Windows stylevisionserver on Windows and Unix (Linux, Mac)
```

- * Note that lowercase (stylevisionserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (StylevisionServer) works only on Windows and Mac.
- * Use forward slashes on Linux and Mac, backslashes on Windows.

Example

Example of the help command to display information about the licenserver command:

```
stylevisionserver help licenseserver
```

The --help option

Help information about a command is also available by using the --help option of the command for which help information is required. The two commands below produce the same results:

```
stylevisionserver licenseserver --help
```

The command above uses the --help option of the licenseserver command.

```
stylevisionserver help licenseserver
```

The help command takes licenseserver as its argument.

Both commands display help information about the licenseserver command.

4.5 licenseserver

Syntax and description

The licenseserver command registers StyleVision Server with the Altova LicenseServer specified by the Server-Or-IP-Address argument. For the licenseserver command to be executed successfully, the two servers (StyleVision Server and LicenseServer) must be on the same network and LicenseServer must be running. You must also have administrator privileges in order to register StyleVision Server with LicenseServer.

stylevisionserver licenseserver [options] Server-Or-IP-Address

• The Server-Or-IP-Address argument takes the name or IP address of the LicenseServer machine.

Once StyleVision Server has been successfully registered with LicenseServer, you will receive a message to this effect. The message will also display the URL of the LicenseServer. You can now go to LicenseServer to assign StyleVision Server a license. For details about licensing, see the LicenseServer documentation (https://www.altova.com/manual/en/licenseserver/3.14/).

Casing and slashes on the command line

```
StyleVisionServer on Windows stylevisionserver on Windows and Unix (Linux, Mac)
```

- * Note that lowercase (stylevisionserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (StylevisionServer) works only on Windows and Mac.
- * Use forward slashes on Linux and Mac, backslashes on Windows.
- Backslashes, spaces, and special characters on Windows systems

On Windows systems: When spaces or special characters occur in strings (for example in file or folder names, or company, person or product names), use quotes: for example, "My File". Note, however, that a backslash followed by a double-quotation mark (for example, "C:\My directory\") might not be read correctly. This is because the backslash character is also used to indicate the start of an escape sequence, and the escape sequence \" stands for the double-quotation mark character. If you want to escape this sequence of characters, use a preceding backslash, like this: \\". To summarize: If you need to write a file path that contains spaces or an end backslash, write it like this: "C:\My Directory\\".

Examples

Examples of the licenseserver command:

```
stylevisionserver licenseserver DOC.altova.com
stylevisionserver licenseserver localhost
stylevisionserver licenseserver 127.0.0.1
```

The commands above specify, respectively, the machine named <code>DOC.altova.com</code>, and the user's machine (<code>localhost</code> and <code>l27.0.0.1</code>) as the machine running Altova LicenseServer. In each case, the command registers StyleVision Server with the LicenseServer on the machine specified. The last command calls the server-executable to execute the command.

Options

Options are listed in short form (if available) and long form. You can use one or two dashes for both short and long forms. An option may or may not take a value. If it takes a value, it is written like this: --option=value. Values can be specified without quotes except in two cases: (i) when the value string contains spaces, or (ii) when explicitly stated in the description of the option that quotes are required. If an option takes a Boolean value and no value is specified, then the option's default value is TRUE. Use the --h, --help option to display information about the command.

▼ json [j]

--j, --json = true false

Values are true|false. If true, prints the result of the registration attempt as a machine-parsable JSON object.

4.6 pdfdata

Syntax and description

The pdfdata command generates an FDF file or XML file from the PDF file that is submitted as the *InputPDF* argument.

stylevisionserver pdfdata [options] InputPDF

- The InputPDF argument specifies the path to the PDF file, from which the output FDF or XML file will be generated. If the PDF file does not have any form data, the generated file will contain no form data.
- Use the --outfdf option to specify the location of the generated FDF file or the --outxml option to specify the location of the generated XML file.

For information about setting up FOP, which StyleVision Server uses by default to generate PDF, see the topic FOP Requirements 34.

For more information about FDF files and designing fillable PDF forms, see the <u>Altova StyleVision (Enterprise Edition)</u> documentation.

Casing and slashes on the command line

```
StyleVisionServer on Windows stylevisionserver on Windows and Unix (Linux, Mac)
```

- * Note that lowercase (stylevisionserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (StylevisionServer) works only on Windows and Mac.
- * Use forward slashes on Linux and Mac, backslashes on Windows.
- Backslashes, spaces, and special characters on Windows systems

On Windows systems: When spaces or special characters occur in strings (for example in file or folder names, or company, person or product names), use quotes: for example, "My File". Note, however, that a backslash followed by a double-quotation mark (for example, "C:\My directory\") might not be read correctly. This is because the backslash character is also used to indicate the start of an escape sequence, and the escape sequence \" stands for the double-quotation mark character. If you want to escape this sequence of characters, use a preceding backslash, like this: \\". To summarize: If you need to write a file path that contains spaces or an end backslash, write it like this: "C:\My Directory\\".

Examples

Examples of the pdfdata command:

```
stylevisionserver pdfdata --outfdf=C:\test\forms\FDFData.fdf C:\test\forms\TestForm.pdf stylevisionserver pdfdata --outxml=C:\test\forms\XMLData.xml C:\test\forms\TestForm.pdf
```

The examples above create, respectively, and FDF file and an XML file from the same PDF input.

Options

outfdf

```
--outfdf = FilePath
```

The path to the generated FDF file.

outxml

```
--outxml = FilePath
```

The path to the generated XML file.

verbose [v]

```
--v, --verbose = true false
```

Values are true | false. Turns the display of all messages, respectively, on or off. Default is false if the option is not provided, true if provided without a value.

Use the --h, --help option to display information about the command.

Options are listed in short form (if available) and long form. You can use one or two dashes for both short and long forms. An option may or may not take a value. If it takes a value, it is written like this: --option=value. Values can be specified without quotes except in two cases: (i) when the value string contains spaces, or (ii) when explicitly stated in the description of the option that quotes are required. If an option takes a Boolean value and no value is specified, then the option's default value is TRUE. Use the --h, --help option to display information about the command.

4.7 setdeflang

Syntax and description

The setdeflang command (short form is sdl) sets the default language of StyleVision Server. Available languages are English (en), German (de), Spanish (es), French (fr), and Japanese (ja). The command takes a mandatory LanguageCode argument.

stylevisionserver setdeflang [options] LanguageCode

- The LanguageCode argument is required and sets the default language of StyleVision Server. The respective values to use are: en, de, es, fr, ja.
- Use the --h, --help option to display information about the command.
- Casing and slashes on the command line

```
StyleVisionServer on Windows stylevisionserver on Windows and Unix (Linux, Mac)
```

- * Note that lowercase (stylevisionserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (StylevisionServer) works only on Windows and Mac.
- * Use forward slashes on Linux and Mac, backslashes on Windows.

Examples

Examples of the setdeflang (sdl) command:

```
stylevisionserver sdl de stylevisionserver setdeflang es
```

- The first command sets the default language of StyleVision Server to German.
- The second command sets the default language of StyleVision Server to Spanish.

Options

Use the --h, --help option to display information about the command.

4.8 setfopath

Syntax and description

The setfopath command (short form is sfp) specifies the path to an Apache FOP processor other than that included in the StyleVision Server package.

stylevisionserver setfopath | sfp [options] Path

- By default the Apache FOP processor that is included with StyleVision Server is used for processing FO documents and generating PDF output. If you wish to use some other Apache FOP processor instance than the processor supplied with StyleVision Server, use the setfopath command with the Path argument giving the path to the FO processor you want to use.
- After an alternative FO processor has been specified with the setfopath command, it is this processor that will be used when PDF is generated with subsequent generate commands. To change processors again, use the setfopath command again. To switch back to StyleVision Server's FOP processor, locate the FOP folder on your system and use this path as the argument of setfopath.
- On Windows systems, the FOP folder that was installed wih StyleVision Server will be located under ProgramData\Altova\SharedBetweenVersions; on Linux and macOS systems in a descendant folder of the StyleVisionServer2024 folder.

For information about setting up FOP, which StyleVision Server uses by default to generate PDF, see the topic FOP Requirements 34.

For more information about FDF files and designing fillable PDF forms, see the <u>Altova StyleVision (Enterprise Edition)</u> documentation.

Casing and slashes on the command line

```
StyleVisionServer on Windows stylevisionserver on Windows and Unix (Linux, Mac)
```

- * Note that lowercase (stylevisionserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (StyleVisionServer) works only on Windows and Mac.
- * Use forward slashes on Linux and Mac, backslashes on Windows.
- ▼ Backslashes, spaces, and special characters on Windows systems

On Windows systems: When spaces or special characters occur in strings (for example in file or folder names, or company, person or product names), use quotes: for example, "My File". Note, however, that a backslash followed by a double-quotation mark (for example, "C:\My directory\") might not be read correctly. This is because the backslash character is also used to indicate the start of an escape sequence, and the escape sequence \" stands for the double-quotation mark character. If you want to escape this sequence of characters, use a preceding backslash, like this: \\". To summarize: If you need to write a file path that contains spaces or an end backslash, write it like this: "C:\My Directory\\".

Examples

After running the setfopath command, you can use the generate command to generate a PDF using the just-specified FO processor:

```
stylevisionserver setfopath C:\FOP\FOP.bat
stylevisionserver generate --inputxml=Test.xml --pdf=Test.pdf Test.pxf
```

The commands above do the following:

- 1. The setfopath command specifies that the FO processor at the location C:\FOP\FOP.bat is to be used to generate PDF in subsequent PDF-generation commands.
- 2. The generate command generates a PDF file from the specified input XML, using transformation files contained in the PXF file. The FO processor specified in the previous command is used for generating the PDF.

Options

Use the --h, --help option to display information about the command.

Options are listed in short form (if available) and long form. You can use one or two dashes for both short and long forms. An option may or may not take a value. If it takes a value, it is written like this: --option=value. Values can be specified without quotes except in two cases: (i) when the value string contains spaces, or (ii) when explicitly stated in the description of the option that quotes are required. If an option takes a Boolean value and no value is specified, then the option's default value is TRUE. Use the --h, --help option to display information about the command.

4.9 verifylicense

Syntax and description

The **verifylicense** command checks whether the current product is licensed. Additionally, the --license-key option enables you to check whether a specific license key is already assigned to the product.

```
stylevisionserver verifylicense [options]
```

• To check whether a specific license is assigned to StyleVision Server, supply the license key as the value of the --license-key option.

For details about licensing, see the LicenseServer documentation (https://www.altova.com/manual/en/licenseserver/3.14/).

Casing and slashes on the command line

```
StyleVisionServer on Windows and Unix (Linux, Mac)
```

- * Note that lowercase (stylevisionserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (StylevisionServer) works only on Windows and Mac.
- * Use forward slashes on Linux and Mac, backslashes on Windows.

Examples

Example of the verifylicense command:

```
stylevisionserver verifylicense
stylevisionserver verifylicense --license-key=ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-ABCD123-
```

- The first command checks whether StyleVision Server is licensed.
- The second command checks whether StyleVision Server is licensed with the license key specified with the --license-key option.

Options

Options are listed in short form (if available) and long form. You can use one or two dashes for both short and long forms. An option may or may not take a value. If it takes a value, it is written like this: --option=value. Values can be specified without quotes except in two cases: (i) when the value string contains spaces, or (ii) when explicitly stated in the description of the option that quotes are required. If an option takes a Boolean value and no value is specified, then the option's default value is TRUE. Use the --h, --help option to display information about the command.

license-key [I]

```
--1, --license-key = Value
```

Checks whether StyleVision Server is licensed with the license key specified as the value of this option.

4.10 version

Syntax and description

The version command displays the version number of StyleVision Server.

stylevisionserver version

Casing and slashes on the command line

```
StyleVisionServer on Windows stylevisionserver on Windows and Unix (Linux, Mac)
```

- * Note that lowercase (stylevisionserver) works on all platforms (Windows, Linux, and Mac), while upper-lower (StylevisionServer) works only on Windows and Mac.
- * Use forward slashes on Linux and Mac, backslashes on Windows.

Example

Example of the version command:

stylevisionserver version

StyleVision Server API 5

StyleVision Server provides an application programming interface (API) that you can access programmatically from your .NET, COM, or Java-based code.

This reference section is organized as follows:

- About the .NET Interface
 About the COM Interface
 About the Java Interface
 Code Examples
 API Reference

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5.1 About the .NET Interface

The .NET interface is built as a wrapper around the COM interface. It is provided as a primary interop assembly signed by Altova and uses the namespace <code>Altova.StyleVisionServer</code>.

During installation, StyleVision Server will be registered automatically as a COM server object, so there is no need for a manual registration. If you receive an access error, open the Component Services and give permissions to the same account that runs the application pool containing StyleVision Server.

In order to use StyleVision Server in your .NET project, add a reference to the Altova.StyleVisionServer.dll file (see the instructions below). The Altova.StyleVisionServer.dll is located in the bin folder of the StyleVision Server installation folder. This .dll file is automatically added to the global assembly cache (GAC) during StyleVision Server installation (the GAC is typically located in the C:\WINDOWS\assembly folder).

Once StyleVision Server has been registered as a COM server object, and the Altova.StyleVisionServer.dll is available to the .NET interface, StyleVision Server API functionality becomes available in your .NET project.

Note: If you have installed a 64-bit StyleVision Server, then the 32-bit version of Altova.StyleVisionServer.dll will be located in the bin\API_32bit folder. Similarly, if you have installed a 32-bit StyleVision Server, then the 64-bit version files of Altova.StyleVisionServer.dll will be located in the bin\API_64bit folder.

To add a reference to the StyleVision Server DLL in a Visual Studio .NET project

- 1. With the .NET project open in Visual Studio, click **Project | Add Reference**. The Add Reference dialog box pops up.
- 2. On the Browse tab, browse for the folder: <StyleVisionServer application folder>/bin, select Altova.StyleVisionServer.dll, and click OK.

You can view the structure of the Altova. StyleVisionServer assembly using the Visual Studio Object Browser (to display the Object Browser, click **Object Browser** on the **View** menu).

5.2 About the COM Interface

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StyleVision Server is automatically registered as a COM server object during installation. To check whether the registration was successful, open the Registry Editor (for example, by typing regedit.exe command at the command line). If registration was successful, the Registry will contain the class StyleVision.Server. This class will typically be found under HKEY_LOCAL_MACHINE\SOFTWARE\Classes.

Once the COM server object is registered, you can invoke it from within applications and scripting languages that have programming support for COM calls. If you wish to change the location of the StyleVision Server installation package, it is best to uninstall StyleVision Server and then reinstall it at the required location. In this way, the necessary de-registration and registration are carried out by the installer process.

5.3 About the Java Interface

The API consists of a JAR file (styleVisionServer.jar) and a JNI file (styleVisionServer.dll). Both these files, as well as other related API files, are available in the bin folder of the StyleVision Server installation folder. You can either reference these files from their original location or copy them to another location if this fits your project setup. (On Windows systems, you will need administrative rights to run the program from its original location.)

Note: If you have installed a 64-bit StyleVision Server, then the 32-bit version files of styleVisionServer.jar and (styleVisionServer.dll will be located in the bin\API_32bit folder of the StyleVision Server installation folder. You would need these files if you are using a 32-bit Java version. Similarly, if you have installed a 32-bit StyleVision Server, then the 64-bit version files of styleVisionServer.jar and (styleVisionServer.dll will be located in the bin\API_64bit folder. You would need to use these files if you are using a 64-bit Java version.

To access the StyleVision Server API from Java code, add the following references to the .classpath file of your Java project.

```
StyleVisionServer.jar The library that communicates with StyleVision Server StyleVisionServer_JavaDoc.zip Documentation of the StyleVision Server API
```

Additionally, the java.library.path needs to include the folder where the JNI library file (StyleVisionServer.dll) is located.

If you deploy your project to an application server, make sure that stylevisionServer.jar and stylevisionServer.dll are correctly configured with Java on the server machine.

For an example of how to use the API's library files, see the example batch file buildAndRun.bat (listed below), which is located in the etc\Examples\Java folder of your StyleVision Server installation folder.

Build and run a Java program to use the API

For guidance about how to build and run a Java program that uses the StyleVision Server API, see the example batch file buildandrun.bat. You can re-use this file to run your own Java programs by modifying it as required.

Start the batch file in a command line interface with the following command:

```
buildAndRun "path_to_Java_bin_folder"
```

Note: To check whether Java is in your classpath, you can run the command <code>java --version</code>. If Java is not in your classpath, then you must provide the path to it as a parameter of the <code>buildAndRun</code> command. If the path contains spaces, then uses quotes around teh path.

■ Listing of buildAndRun.bat

```
@echo off
if %1.==. goto error

REM The location of the JAVA API binaries, the JAR file and the JNI library.
REM Adapt to your needs.
```

```
SETTIOCAL
Set JavaAPIBinPath=%PROGRAMFILES%\Altova\StyleVisionServer2024\bin
REM Compile sample java
REM The -cp option (classpath) needs to point to the installed jar file (here, in its
original location)
REM "Program.java" is the Java program you want to compile
%1\javac.exe -cp "%JavaAPIBinPath%\StyleVisionServer.jar" Program.java
REM Run sample java
REM The -cp option (classpath) needs to point to the StyleVisionServer.jar file
REM The java.library.path needs to include the folder where the JNI library
StyleVisionServer.dll is located.
%1\java.exe -cp "%JavaAPIBinPath%\StyleVisionServer.jar;." -Djava.library.path="%
JavaAPIBinPath%" Program
@echo off
goto end
:error
echo Usage: buildAndRun "<path_to_java_bin_folder>"
:end
```

Adding library references in Eclipse

In Eclipse, you can add the classpath references by editing the properties of the Java project. The sample instructions below apply to Eclipse 4.4.

- With the project open in Eclipse, on the **Project** menu, click **Properties**, and then select the Java Build Path
- 2. On the Libraries tab, click **Add External JARs**, and then browse for the StyleVisionServer.jar file located in the StyleVision Server installation folder.
- 3. Under *JARs and class folders on the build path*, expand the StyleVisionServer.jar record, and then double-click the Javadoc location: (None) record.
- 4. Ensure that the *Javadoc in archive* and *External file* options are selected, and then browse for the StyleVisionServer_JavaDoc.zip file located in the StyleVision Server installation folder.
- 5. Click **OK**. The reference to the StyleVision Server library and Javadoc archive is added to the .classpath file of the project.

5.4 Code Examples

The examples in this section are for the following programing languages:

- <u>C#</u> 61
- <u>C++</u> 62
- <u>Java</u> 64
- VBScript 65
- Visual Basic 67

After you have installed StyleVision Server, copy the folder etc/Examples into your home directory or any other suitable folder.

5.4.1 C#

The example below shows how to use C# code to generate an output RTF file using a PXF file and an input XML file. Ensure that StyleVision Server is installed and licensed and that it is available as a COM server object. Registration as a COM server object usually takes place during installation of StyleVision Server. To check if registration was successful, see About the COM Interface ST. Also see About the .NET Interface ST.

```
namespace StyleVisionServerAPI_sample
{
    class Program
        static void Main(string[] args)
            try
            {
               //Create a StyleVision Server object
               Altova.StyleVisionServer.Server objSVS = new
Altova.StyleVisionServer.Server();
               //Set a working directory - used for output and for intermediate files
               objSVS.WorkingDirectory = "..\\..\\..";
               //Default path to the StyleVision Server executable is the installation path
(same dir with the StyleVisionServer.dll)
               //In case you moved the binaries on the disk, you need to explicitly set the
path to the .exe file
               //objSVS.ServerPath = "C:\\Program Files (x86)\\Altova\
\StyleVisionServer2024\\bin\\StyleVisionServer.exe";
               //Prepare the name of the working XML
                     This can be an absolute/relative path if the file is stored externally
(not inside PXF)
               // objSVS.InputXML = "ExpReport.xml";
                     Or it can contain the path INSIDE the PXF
               // objSVS.InputXML = "ExpReport.pxf|zip\\ExpReport.xml";
```

```
Easiest way is to refer to the file as being embedded in the
transformation file
               objSVS.InputXML = "altova://packagedfile/ExpReport.xml";
               //Add output paths (absolute or relative to WorkingDirectory) for all
formats that should be generated
               objSVS.OutputRTF = "C:\\tmp\\ExpReport.rtf";
               //Prepare the parameters, if your design uses parameters
               //objSVS.AddParameter( "testparam1", "value 1" );
               //Run the transformation; the output will be stored at C:\temp\ExpReport.rtf
               // NOTE Please adapt the path to the input file in order to run the sample
               if (objSVS.Generate("ExpReport.pxf"))
                   System.Console.WriteLine("Success - finished execution");
               else
                   System.Console.WriteLine(objSVS.LastExecutionMessage);
            }
            catch (System.Runtime.InteropServices.COMException ex)
                // some general error like an invalid license happened
                System.Console.WriteLine("Internal Error - " + ex.Message);
       }
    }
}
```

5.4.2 C++

The example below shows how to use C++ code to generate an output RTF file using a PXF file and an input XML file. Ensure that StyleVision Server is installed and licensed and that it is available as a COM server object. Registration as a COM server object usually takes place during installation of StyleVision Server. To check if registration was successful, see About the COM Interface ST. Also see About the .NET Interface

```
// StyleVisionServerAPI_Sample.cpp : Defines the entry point for the console application.
//
#include <iostream>
#include "atlbase.h"

// The following import statements require the corresponding C++ tool-chain to be selected in the project configuration file.
#ifndef _WIN64
// 32-bit StyleVisionServer
#import "progid:StyleVision.Server"
#else
// 64-bit StyleVisionServer
#import "progid:StyleVision_x64.Server"
#endif
```

```
int _tmain(int argc, _TCHAR* argv[])
  CoInitialize( NULL );
  try
     //Create a StyleVision Server object
     StyleVisionServerLib::IServerPtr pSVS;
     CoCreateInstance( __uuidof( StyleVisionServerLib::Server ), NULL, CLSCTX_ALL,
uuidof( StyleVisionServerLib::IServer ), reinterpret cast< void** >( &pSVS ) );
     //Set a working directory - used for output and for intermediate files
     pSVS->WorkingDirectory = ".."; // this is relative to this applications' working
directory (the project folder)
     //Default path to the StyleVision Server executable is the installation path (same dir
with the StyleVisionServer.dll)
     //In case you moved the binaries on the disk, you need to explicitly set the path to
the .exe file
     //pSVS->ServerPath = "C:\\Program Files (x86)\\Altova\\StyleVisionServer2024\\bin\
\StyleVisionServer.exe";
     //psvs->ServerPath = "C:\\Program Files\\Altova\\StyleVisionServer2024\\bin\
\StyleVisionServer.exe";
     //Prepare the name of the working XML
           This can be an absolute/relative path if the file is stored externally (not
inside PXF)
     // pSVS->InputXML = "ExpReport.xml";
           Or it can contain the path INSIDE the PXF
     // pSVS->InputXML = "ExpReport.pxf|zip\\ExpReport.xml";
           Easiest way is to refer to the file as being embedded in the transformation file
     pSVS->InputXML = "altova://packagedfile/ExpReport.xml";
     //Add output paths (absolute or relative to WorkingDirectory) for all formats that
should be generated
     pSVS->OutputRTF = "ExpReport.rtf";
     pSVS->OutputPDF = "ExpReport.pdfrtf";
     pSVS->OutputHTML = "ExpReport.html";
     //Prepare the parameters, if your design uses parameters
     //pSVS->AddParameter( "testparam1", "value 1" );
     //Run the transformation; the output will be stored at C:\temp\ExpReport.rtf
     // NOTE Please adapt the path to the input file in order to run the sample
     if (pSVS->Generate("ExpReport.pxf"))
        std::cout << pSVS->LastExecutionMessage << std::endl;</pre>
                    std::cout << "Success - finished execution" << std::endl;</pre>
     else
        std::cout << pSVS->LastExecutionMessage << std::endl;</pre>
```

```
}
catch (_com_error& err )
{
    BSTR bstrMessage;
    (err).ErrorInfo()->GetDescription( &bstrMessage );
    std::cout << "Exception occurred: " << _com_util::ConvertBSTRToString( bstrMessage )
<< std::endl;
}
CoUninitialize();
return 0;
}
</pre>
```

5.4.3 Java

The example below shows how to use Java code to generate an output RTF file using a PXF file and an input XML file. Ensure that StyleVision Server is installed and licensed and that it is available as a server object. Registration as a server object usually takes place during installation of StyleVision Server. The example program below can be built and run using the batch file named buildAndRun.bat, which is located in the etc\Examples\Java folder of your StyleVision Server installation folder.

For information about the interface, see About the Java Interface 59.

Note: We recommend that you copy the Examples folder to your home directory or any other suitable folder, and then navigate to the Java folder to access **Program.java** and **buildAndRun.bat**.

Program.java

```
public class Program
{
  public static void main(String[] args)
      com.altova.stylevisionserver.StyleVisionServer objSVS
      try
      {
          //Create a StyleVision Server object
          objSVS = new com.altova.stylevisionserver.StyleVisionServer();
          //The default location of server binary is the folder containing the Java native
library
          //Select a different server binary with the following line:
          //obj.SVS.setServerPath(strServerPath);
          //The sample data is located in the parent folder of the Java sample code
          //Set this parent folder to be the working directory:
          objSVS.setWorkingDirectory( ".." );
          System.out.println("Running " + objSVS.getProductNameAndVersion());
          //Prepare the name of the working XML
```

```
//This can be an absolute/relative path if the file is external (not inside PXF)
               objSVS.setInputXML( "ExpReport.xml" );
          //Or it can contain the path INSIDE the PXF
               objSVS.setInputXML( "C:\\Program Files (x86)\\Altova\\StyleVisionServer" +
majorVersionYear + "\\etc\\Examples\\ExpReport.pxf|zip\\ExpReport.xml" );
          //The easiest way is to refer to the file as being embedded in the transformation
file
          objSVS.setInputXML( "altova://packagedfile/ExpReport.xml" );
          //Add output paths (absolute or relative to WorkingDirectory) for all formats
that should be generated
          objSVS.setOutputRTF( "ExpReport.rtf" );
          //Prepare the parameters, if your design uses parameters
          //objSVS.AddParameter( "testparam1", "value 1" );
          //Run the transformation; the output will be stored at C:\temp\ExpReport.rtf
          // NOTE Please adapt the path to the input file in order to run the sample
          if ( objSVS.generate( "ExpReport.pxf" ) )
               System.out.println( "Success" + objSVS.getLastExecutionMessage() );
          else
               System.out.println( objSVS.getLastExecutionMessage() );
       catch ( Exception e)
       {
           System.out.println(e.getMessage());
   }
```

5.4.4 VBScript

The example below shows how to use VB Script code to generate an output RTF file using a PXF file and an input XML file. Ensure that StyleVision Server is installed and licensed and that it is available as a COM server object. Registration as a COM server object usually takes place during installation of StyleVision Server. To check if registration was successful, see About the COM Interface [53].

```
Option Explicit

'Create a StyleVision Server object; use "StyleVision_x64.Server" if you want to use the 64-bit installation

Dim objSVS

' Since we load a COM-DLL we need care about the process architecture

On Error Resume Next ' ignore any COM errors avoiding uncontrolled script termination

Dim WshShell

Dim WshProcEnv

Set WshShell = CreateObject("WScript.Shell")

Set WshProcEnv = WshShell.Environment("Process")

Dim process_architecture
```

```
process architecture= WshProcEnv("PROCESSOR ARCHITECTURE")
If process_architecture = "x86" Then
  Set objSVS = WScript.GetObject( "", "StyleVision.Server" )
  If Err.Number <> 0 then
     WScript.Echo("You are running in a 32-bit process but StyleVision Server COM-API 32-
bit seems not to be installed on your system.")
     WScript.Quit -1
  End If
Else
   Set objSVS = WScript.GetObject( "", "StyleVision_x64.Server" )
  If Err.Number <> 0 then
     WScript.Echo("You are running in a 64-bit process but StyleVision Server COM-API 64-
bit seems not to be installed on your system.")
     WScript.Echo("If you have installed 32-bit StyleVision Server consider calling your
script from the 32-bit console 'C:\Windows\SysWOW64\cmd.exe.'")
     WScript.Quit -1
  End If
End If
On Error Goto 0
                   ' re-enble default error promotion
'Set a working directory - used for input, output and for intermediate files
'objSVS.WorkingDirectory = "C:\Program Files (x86)
\Altova\StyleVisionServer2020\etc\examples"
objSVS.WorkingDirectory = ".."
'Default path to the StyleVision Server executable is the installation path (same dir with
the StyleVisionServer.dll)
'In case you moved the binaries on the disk, you need to explicitly set the path to the
.exe file
'objSVS.ServerPath = "C:\Program Files (x86)
\Altova\StyleVisionServer2020\bin\StyleVisionServer_DebugDLL.exe"
' The Generate method will return 'True' if generation was successful otherwise 'False'.
' In the case of fundamental errors like termination of the server process a COM error will
be raised which
' can be handled using the VBScript Err object.
On Error Resume Next ' ignore any COM errors avoiding uncontrolled script termination
Err.Clear
WScript.Echo("Running " & objSVS.ProductNameAndVersion & vbCrlf)
'Prepare the name of the working XML
     This can be an absolute/relative path if the file is stored externally (not inside
PXF)
' objSVS.InputXML = "ExpReport.xml"
     or it can contain the path INSIDE the PXF
objSVS.InputXML = "ExpReport.pxf | zip\ExpReport.xml"
     or refer to the file as being embedded in the transformation file
'objSVS.InputXML = "altova://packagedfile/ExpReport.xml"
'Add output paths (absolute or relative to WorkingDirectory) for all formats that should be
generated
' make sure you have write permissions
```

```
'objSVS.OutputRTF = "C:\tmp\ExpReport.rtf"
objSVS.OutputPDF = "C:\tmp\ExpReport.pdf"
'objSVS.OutputHTML = "C:\tmp\ExpReport.html"
'Prepare the parameters, if your design uses parameters
'Call objSVS.AddParameter( "testparam1", "value_1" )
' Run the transformation. The PXF file path can be relative to the working folder or
absolute.
WScript.Echo("Generating output from ExpReport.pxf...")
If ( objSVS.Generate( "ExpReport.pxf" ) ) Then
  WScript.Echo( objSVS.LastExecutionMessage )
  WScript.Echo( "Success - finished execution" )
Else
  WScript.Echo( objSVS.LastExecutionMessage )
End If
' handle COM errors
If Err.Number <> 0 Then
  WScript.Echo("Internal error - " & Err.Description )
  WScript.Quit -1
End If
On Error Goto 0
                ' re-enble default error promotion
```

5.4.5 **Visual Basic**

The example below shows how to use Visual Basic code to generate an output RTF file using a PXF file and an input XML file. Ensure that StyleVision Server is installed and licensed and that it is available as a COM server object. Registration as a COM server object usually takes place during installation of StyleVision Server. To check if registration was successful, see About the COM Interface 58.

```
Option Explicit On
Module Program
    Sub Main()
        Try
            'Create a StyleVision Server object
            Dim objSVS As Altova.StyleVisionServer.Server = New
Altova.StyleVisionServer.Server
            'Set a working directory - used for output and for intermediate files
            'objSVS.WorkingDirectory = "C:\Program Files (x86)
\Altova\MapForceServer2020\etc\Examples"
            objSVS.WorkingDirectory = "..\..\.."
```

```
'Default path to the StyleVision Server executable is the installation path
(same dir with the StyleVisionServer.dll)
            'In case you moved the binaries on the disk, you need to explicitly set the
path to the .exe file
            'objSVS.ServerPath = "C:\Program Files (x86)
\Altova\StyleVisionServer2020\bin\StyleVisionServer.exe"
            'objSVS.ServerPath = "C:\Program
Files\Altova\StyleVisionServer2020\bin\StyleVisionServer.exe"
            'Prepare the name of the working XML
                 This can be an absolute/relative path if the file is stored externally
(not inside PXF)
            ' objSVS.InputXML = "ExpReport.xml"
                 Or it can contain the path INSIDE the PXF
            objSVS.InputXML = "ExpReport.pxf | zip\ExpReport.xml"
                 Easiest way is to refer to the file as being embedded in the
transformation file
            ' objSVS.InputXML = "altova://packagedfile/ExpReport.xml"
            'Add output paths (absolute or relative to WorkingDirectory) for all formats
that should be generated
            objSVS.OutputRTF = "C:\tmp\ExpReport.rtf"
            objSVS.OutputPDF = "C:\tmp\ExpReport.pdf"
            objSVS.OutputHTML = "C:\tmp\ExpReport.html"
            'Prepare the parameters, if your design uses parameters
            'objSVS.AddParameter( "testparam1", "value 1" )
            ' Run the transformation; the output will be stored at C:\temp
            If (objSVS.Generate("ExpReport.pxf")) Then
                System.Console.WriteLine(objSVS.LastExecutionMessage)
                System.Console.WriteLine("Success - finished execution")
            Else
                System.Console.WriteLine(objSVS.LastExecutionMessage)
            End If
        Catch ex As Exception
            System.Console.WriteLine("Internal Error - " & ex.Message())
       End Try
    End Sub
End Module
```

StyleVision Server API API Reference 69

5.5 API Reference

This section is a user's reference for the StyleVision Server API.

- COM and .NET 69
- <u>Java</u> 76

5.5.1 COM and .NET

The StyleVisionServer API exposes the **Iserver interface**, which creates a new StyleVision Server object instance, and provides access to StyleVision Server.

The Iserver interface has the following methods and properties.

Methods

AddParameter

Assigns a value to a parameter defined in the PXF file.

```
    C#
        void AddParameter(string bstrName, string bstrValue)
    C++
        HRESULT AddParameter([in] BSTR bstrName, [in] BSTR bstrValue);
    VB
        Sub AddParameter(ByVal bstrName As String, ByVal bstrValue As String)
```

ClearParameterList

Clears the list of parameters.

```
    □ C#
        void ClearParameterList()
    □ C++
        HRESULT ClearParameterList();
    □ VB
        Sub ClearParameterList()
```

Generate

Generates one or more output files (HTML, PDF, RTF, and/or DOCX) by using the PXF file specified with TransfPath. It transforms the input XML file (Working XML File in the PXF file) using the XSLT document contained in the PXF file. Returns TRUE in case of success; FALSE otherwise.

```
    C#
        bool Generate(string bstrTransfPath)
    C++
        HRESULT Generate([in] BSTR bstrTransfPath, [out, retval] VARIANT_BOOL* pbSuccess);
    VB
        Function Generate(ByVal bstrTransfPath As String) As Boolean
```

Properties

APIMajorVersion

Gets the major version of the StyleVision Server API. It can be different from the product version if the API is connected to another server.

```
    □ C#
        int APIMajorVersion { get; }
    □ C++
        HRESULT APIMajorVersion([out, retval] INT* pnVal);
    □ VB
        ReadOnly Property APIMajorVersion As Integer
```

APIMinorVersion

Gets the minor version of the StyleVision Server API. It can be different from the product version if the API is connected to another server.

```
    □ C#
        int APIMinorVersion { get; }
    □ C++
        HRESULT APIMinorVersion([out, retval] INT* pnVal);
    □ VB
        ReadOnly Property APIMinorVersion As Integer
```

APIServicePackVersion

Gets the service pack version of the StyleVision Server API. It can be different from the product version if the API is connected to another server.

```
    □ C#
        int APIServicePackVersion { get; }
    □ C++
        HRESULT APIServicePackVersion([out, retval] INT* pnVal);
    □ VB
        ReadOnly Property APIServicePackVersion As Integer
```

▼ InputXML

Sets the path and name of the XML file to be processed (the Working XML File in the PXF file).

```
String InputXML { set; }
```

```
HRESULT InputXML([in] BSTR bstrPath );

    VB
    Property InputXML As String
```

▼ Is64Bit

Returns TRUE if the StyleVision Server engine is a 64-bit executable.

```
    □ C#
        bool Is64Bit { get; }
    □ C++
        HRESULT Is64Bit([out, retval] VARIANT_BOOL* pbVal);
    □ VB
        ReadOnly Property Is64Bit As Boolean
```

LastExecutionMessage

Gets the message received during the last Generate command.

```
    ■ C#
        string LastExecutionMessage { get; }
    ■ C++
        HRESULT LastExecutionMessage([out, retval] BSTR* pbstrResult );
    ■ VB
        ReadOnly Property LastExecutionMessage As String
```

MajorVersion

Gets the major version of StyleVision Server.

```
    □ C#
        int MajorVersion { get; }
    □ C++
        HRESULT MajorVersion([out, retval] INT* pnVal);
    □ VB
        ReadOnly Property MajorVersion As Integer
```

MinorVersion

Gets the minor version of StyleVision Server.

```
    □ C#
        int MinorVersion { get; }
    □ C++
        HRESULT MinorVersion([out, retval] INT* pnVal);
    □ VB
        ReadOnly Property MinorVersion As Integer
```

OutputDOCX

Sets the path and name of the output DOCX file.

```
    ■ C#
        string OutputDOCX { set; }
    ■ C++
        HRESULT OutputDOCX([in] BSTR bstrPath );
    ■ VB
        Property OutputDOCX As String
```

OutputFO

Sets the path and name of the output FO file.

```
    ■ C#
        string OutputFO { set; }
    ■ C++
        HRESULT OutputFO([in] BSTR bstrPath );
    ■ VB
        Property OutputFO As String
```

OutputHTML

Sets the path and name of the output HTML file.

```
    ■ C#
        string OutputHTML { set; }
    ■ C++
        HRESULT OutputHTML([in] BSTR bstrPath );
    ■ VB
        Property OutputHTML As String
```

OutputPDF

Sets the path and name of the output PDF file.

```
    ■ C#
        string OutputPDF { set; }
    ■ C++
        HRESULT OutputPDF([in] BSTR bstrPath );
    ■ VB
        Property OutputPDF As String
```

OutputRTF

Sets the path and name of the output RTF file.

```
    ■ C#
        string OutputRTF { set; }
    ■ C++
        HRESULT OutputRTF([in] BSTR bstrPath );
    ■ VB
        Property OutputRTF As String
```

OutputText

Sets the path and name of the output Text file.

```
    □ C#
        string OutputText { set; }
    □ C++
        HRESULT OutputText([in] BSTR bstrPath );
    □ VB
        Property OutputText As String
```

ProductName

Gets the name of the product: "StyleVision Server"

```
■ C#
string ProductName { get; }
■ C++
```

```
HHRESULT ProductName([out, retval] BSTR* pstrVal);

VB
ReadOnly Property ProductName As String
```

ProductNameAndVersion

Gets the complete name of the product, including the version number: "StyleVision Server 2014r2 spl (x64)".

C#
 string ProductNameAndVersion { get; }

 C++
 HHRESULT ProductNameAndVersion([out, retval] BSTR* pstrVal);
}

■ VB

ReadOnly Property ProductNameAndVersion As String

ServerPath

Gets or sets the path to the StyleVision Server executable.

```
The control of t
```

ServicePackVersion

Gets the service pack version of StyleVision Server (for example: 1 for Altova StyleVision Server 2014 r2 sp1 (x64).)

```
□ C#
   int ServicePackVersion { get; }□ C++
   HRESULT ServicePackVersion([out, retval] INT* pnVal);
```

■ VB

ReadOnly Property ServicePackVersion As Integer

WhereClause

Sets an SQL where clause that determines the rows of a DB-XML schema source to process.

```
    ■ C#
        string WhereClause { set; }
    ■ C++
        HRESULT WhereClause([in] BSTR bstrPath );
    ■ VB
        Property WhereClause As String
```

WorkingDirectory

Gets or sets the current directory for running jobs. Relative paths are evaluated against the working directory.

```
    ■ C#
        string WorkingDirectory { set; get; }
    ■ C++
        HRESULT WorkingDirectory([in] BSTR bstrWorkingDirectory);
        HRESULT WorkingDirectory([out, retval] BSTR* pbstrWorkingDirectory);
    ■ VB
        Property WorkingDirectory As String
```

5.5.2 Java

The package com.altova.stylevisionserver consists of the following classes:

• public class StyleVisionServer (described below)

• public class StyleVisionServerException extends Exception

StyleVisionServer class

The StyleVisionServer class creates a new StyleVision Server object instance, and provides access to StyleVision Server. The methods of the StyleVisionServer interface are described below.

Methods of stylevisionServer class

The methods of the StyleVisionServer class are listed alphabetically below.

addParameter

```
public void addParameter(String name, String value)
```

Adds the name and value of a new parameter. Each parameter and its value is specified in a separate call to the method. Parameters must be declared in the XSLT document.

Parameters:

name: Holds the name of the parameter as a string. value: Holds the value of the parameter as a string.

clearParameterList

```
public void clearParameterList()
Clears the list of parameters.
```

generate

```
public boolean generate(String transfPath)
```

Processes the PXF file specified in transfPath. Throws StyleVisionServerException.

Parameters

transfPath: An absolute URL giving the location of the PXF file.

Returns:

```
true() if execution is successful
```

false() if execution fails

In case of an error, use getLastExecutionMessage()

getAPIMajorVersion

```
public int getAPIMajorVersion()
```

Gets the major version of the StyleVision Server API. It can be different from the product version if the API is connected to another server.

getAPIMinorVersion

```
public int getAPIMinorVersion()
```

Gets the minor version of the StyleVision Server API. It can be different from the product version if the API is connected to another server.

getAPIServicePackVersion

```
public int getAPIServicePackVersion()
```

Gets the service pack version of the StyleVision Server API. It can be different from the product version if the API is connected to another server.

getLastExecutionMessage

```
public String getLastExecutionMessage()
Gets the message received during the last generate command.
```

▼ getMajorVersion

```
public int getMajorVersion()
Gets the major version of the application.
```

▼ getMinorVersion

```
public int getMinorVersion()
Gets the minor version of the application.
```

getProductName

```
public String getProductName()
Gets the product name.
```

getProductNameAndVersion

```
public String getProductNameAndVersion()
Gets the complete name and version number of the product.
```

getServerPath

```
public String getServerPath()
Gets the path to the server's binary executable file.
```

getServicePackVersion

```
public int getServicePackVersion()
Gets the service pack version of the StyleVision Server.
```

getWorkingDirectory

```
public String getWorkingDirectory()
Gets the current working directory.
```

▼ is64bit

```
public boolean is64bit()
Checks whether the executable is 64-bit.
Returns:
true() for StyleVision Server (x64), false() otherwise.
```

▼ setInputXML

```
public void setInputXML(String path)
```

Sets the XML file to process. This must be the path of the Working XML File that is specified in the PXF file.

Parameters:

path: Holds the path of the Working XML file in the PXF file.

setOutputDOCX

public void **setOutputDOCX**(String path)
Sets the path and name of the DOCX file to generate.

Parameters:
path: The path and name of the DOCX file to generate.

setOutputFO

public void **setOutputFO**(String path)
Sets the path and name of the Fo file to generate.

Parameters:
path: The path and name of the Fo file to generate.

setOutputHTML

public void **setOutputHTML**(String path)
Sets the path and name of the HTML file to generate.

Parameters:
path: The path and name of the HTML file to generate.

setOutputPDF

public void **setOutputPDF**(String path)
Sets the path and name of the PDF file to generate.

Parameters:

path: The path and name of the PDF file to generate.

setOutputRTF

public void setOutputRTF(String path) Sets the path and name of the RTF file to generate. Parameters:

path: The path and name of the RTF file to generate.

setOutputText

public void **setOutputText(**String path)
Sets the path and name of the Text file to generate.

<u>Parameters:</u>

path: The path and name of the Text file to generate.

setServerPath

public void **setServerPath**(String serverFile)
Sets the path of the StyleVisionServer **executable**.

<u>Parameters:</u>
serverFile: The path of the StyleVisionServer **executable**.

setWhereClause

public void setWhereClause(String whereClause)

Sets an SQL where clause that determines the rows of a DB-XML schema source to process. Parameters:

whereClause: The SQL where clause that determines the rows of a DB-XML schema source to process.

setWorkingDirectory

public void **setWorkingDirectory(**String workingDirectory)
Sets a default directory. Relative paths are resolved relative to this directory.

<u>Parameters:</u>
workingDirectory: The path of the default (working) directory.

▼ stop

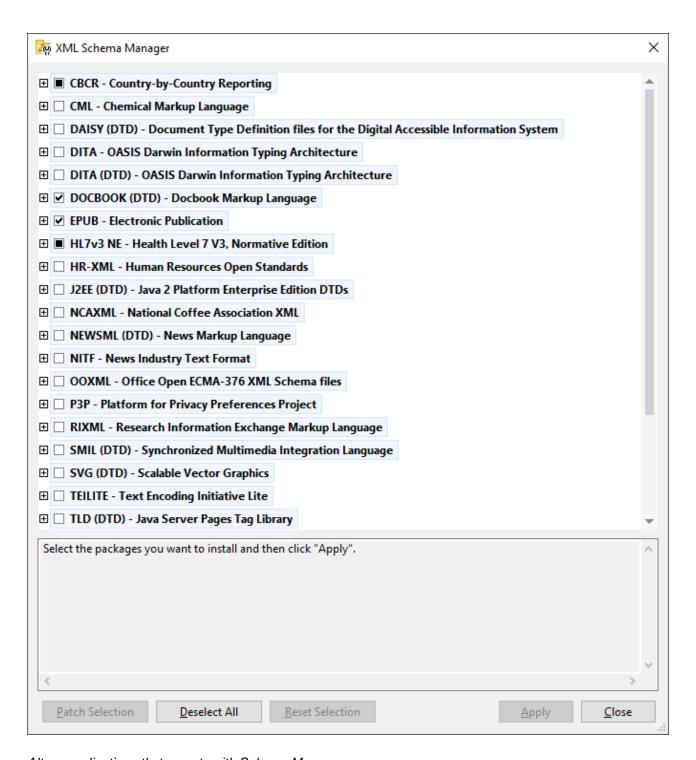
public void stop()
Stops the server process.

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6 Schema Manager

XML Schema Manager is an Altova tool that provides a centralized way to install and manage XML schemas (DTDs for XML and XML Schemas) for use across all Altova's XML-Schema-aware applications, including StyleVision Server.

- On Windows, Schema Manager has a graphical user interface (*screenshot below*) and is also available at the command line. (Altova's desktop applications are available on Windows only; see *list below*.)
- On Linux and macOS, Schema Manager is available at the command line only. (Altova's server applications are available on Windows, Linux, and macOS; see *list below*.)



Altova applications that operate with Schema Manager

Desktop applications (Windows only)	Server applications (Windows, Linux, macOS)
XMLSpy (all editions)	RaptorXML Server, RaptorXML+XBRL Server

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MapForce (all editions)	StyleVision Server
StyleVision (all editions)	
Authentic Desktop Enterprise Edition	

Installation and de-installation of Schema Manager

Schema Manager is installed automatically when you first install a new version of Altova Mission Kit or of any of Altova's XML-schema-aware applications (see table above).

Likewise, it is removed automatically when you uninstall the last Altova XML-schema-aware application from your computer.

Schema Manager features

Schema Manager provides the following features:

- Shows XML schemas installed on your computer and checks whether new versions are available for download.
- Downloads newer versions of XML schemas independently of the Altova product release cycle. (Altova stores schemas online, and you can download them via Schema Manager.)
- Install or uninstall any of the multiple versions of a given schema (or all versions if necessary).
- An XML schema may have dependencies on other schemas. When you install or uninstall a particular schema, Schema Manager informs you about dependent schemas and will automatically install or remove them as well.
- Schema Manager uses the XML catalog mechanism to map schema references to local files. In the
 case of large XML schemas, processing will therefore be faster than if the schemas were at a remote
 location
- All major schemas are available via Schema Manager and are regularly updated for the latest versions.
 This provides you with a convenient single resource for managing all your schemas and making them readily available to all of Altova's XML-schema-aware applications.
- Changes made in Schema Manager take effect for all Altova products installed on that machine.
- In an Altova product, if you attempt to validate on a schema that is not installed but which is available via Schema Manager, then installation is triggered automatically. However, if the schema package contains namespace mappings, then there will be no automatic installation; in this case, you must start Schema Manager, select the package/s you want to install, and run the installation. If, after installation, your open Altova application does not restart automatically, then you must restart it manually.

How it works

Altova stores all XML schemas used in Altova products online. This repository is updated when new versions of the schemas are released. Schema Manager displays information about the latest available schemas when invoked in both its GUI form as well as on the CLI. You can then install, upgrade or uninstall schemas via Schema Manager.

Schema Manager also installs schemas in one other way. At the Altova website (https://www.altova.com/schema-manager) you can select a schema and its dependent schemas that you want to install. The website will prepare a file of type <code>.altova_xmlschemas</code> for download that contains information about your schema selection. When you double-click this file or pass it to Schema Manager via the CLI as an argument of the <code>install</code> schemas you selected.

Local cache: tracking your schemas

All information about installed schemas is tracked in a centralized cache directory on your computer, located here:

Windows	C:\ProgramData\Altova\pkgs\.cache
Linux	/var/opt/Altova/pkgs\.cache
macOS	/var/Altova/pkgs

This cache directory is updated regularly with the latest status of schemas at Altova's online storage. These updates are carried out at the following times:

- Every time you start Schema Manager.
- When you start StyleVision Server for the first time on a given calendar day.
- If StyleVision Server is open for more than 24 hours, the cache is updated every 24 hours.
- You can also update the cache by running the update ⁹⁸ command at the command line interface.

The cache therefore enables Schema Manager to continuously track your installed schemas against the schemas available online at the Altova website.

Do not modify the cache manually!

The local cache directory is maintained automatically based on the schemas you install and uninstall. It should not be altered or deleted manually. If you ever need to reset Schema Manager to its original "pristine" state, then, on the command line interface (CLI): (i) run the reset command, and (ii) run the initialize command. (Alternatively, run the reset command with the --i option.)

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6.1 Run Schema Manager

Graphical User Interface

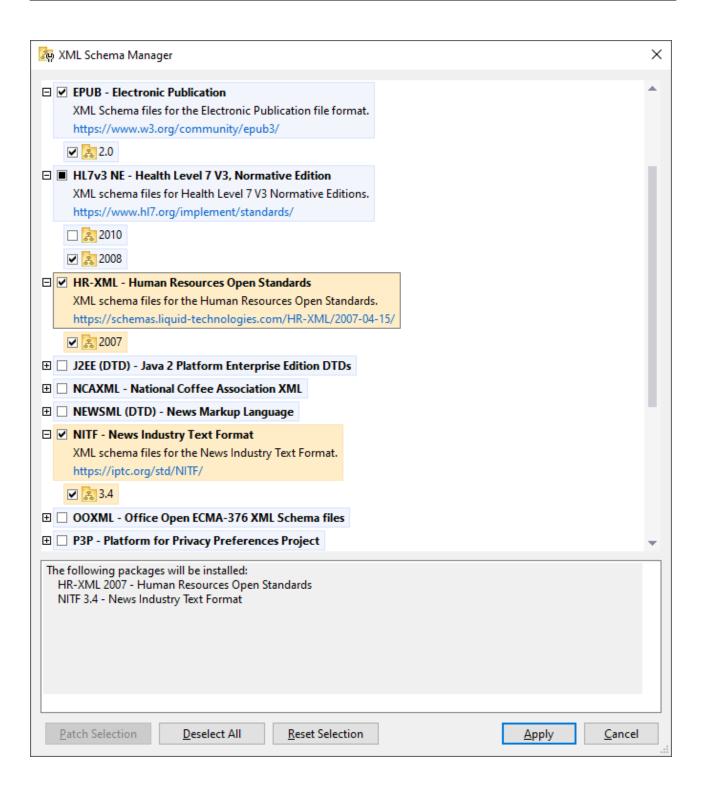
You can access the GUI of Schema Manager in any of the following ways:

• During the installation of StyleVision Server: Towards the end of the installation procedure, select the check box *Invoke Altova XML-Schema Manager* to access the Schema Manager GUI straight away. This will enable you to install schemas during the installation process of your Altova application.

• Via the .altova_xmlschemas file downloaded from the Altova website: Double-click the downloaded file to run the Schema Manager GUI, which will be set up to install the schemas you selected (at the website) for installation.

After the Schema Manager GUI (*screenshot below*) has been opened, already installed schemas will be shown selected. If you want to install an additional schema, select it. If you want to uninstall an already installed schema, deselect it. After you have made your selections and/or deselections, you are ready to apply your changes. The schemas that will be installed or uninstalled will be highlighted and a message about the upcoming changes will be posted to the Messages pane at the bottom of the Schema Manager window (*see screenshot*).

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Command line interface

You can run Schema Manager from a command line interface by sending commands to its executable file, xmlschemamanager.exe

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The xmlschemamanager.exe file is located in the following folder:

- On Windows: C:\ProgramData\Altova\SharedBetweenVersions
- On Linux or macOS (server applications only): %INSTALLDIR%/bin, where %INSTALLDIR% is the program's installation directory.

You can then use any of the commands listed in the <u>CLI command reference section</u> ⁹³.



To display help for the commands, run the following:

- On Windows: xmlschemamanager.exe --help
- On Linux or macOS (server applications only): sudo ./xmlschemamanager --help

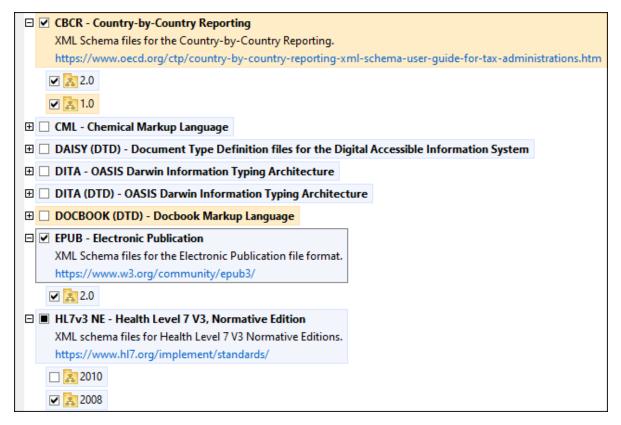
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6.2 Status Categories

Schema Manager categorizes the schemas under its management as follows:

• Installed schemas. These are shown in the GUI with their check boxes selected (in the screenshot below the checked and blue versions of the EPUB and HL7v3 NE schemas are installed schemas). If all the versions of a schema are selected, then the selection mark is a tick. If at least one version is unselected, then the selection mark is a solid colored square. You can deselect an installed schema to uninstall it; (in the screenshot below, the DocBook DTD is installed and has been deselected, thereby preparing it for de-installation).

• *Uninstalled available schemas.* These are shown in the GUI with their check boxes unselected. You can select the schemas you want to **install**.



• Upgradeable schemas are those which have been revised by their issuers since they were installed. They are indicated in the GUI by a icon. You can **patch** an installed schema with an available revision.

Points to note

- In the screenshot above, both CBCR schemas are checked. The one with the blue background is already installed. The one with the yellow background is uninstalled and has been selected for installation. Note that the HL7v3 NE 2010 schema is not installed and has not been selected for installation.
- A yellow background means that the schema will be modified in some way when the Apply button is clicked. If a schema is unchecked and has a yellow background, it means that it will be uninstalled when the Apply button is clicked. In the screenshot above the DocBook DTD has such a status.

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• When running Schema Manager from the command line, the <u>list</u> scommand is used with different options to list different categories of schemas:

xmlschemamanager.exe list	Lists all installed and available schemas; upgradeables are also indicated
xmlschemamanager.exe list	Lists installed schemas only; upgradeables are also indicated
xmlschemamanager.exe list	Lists upgradeable schemas

Note: On Linux and macOS, use sudo ./xmlschemamanager list

6.3 Patch or Install a Schema

Patch an installed schema

Occasionally, XML schemas may receive patches (upgrades or revisions) from their issuers. When Schema Manager detects that patches are available, these are indicated in the schema listings of Schema Manager and you can install the patches quickly.

In the GUI

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Patches are indicated by the icon. (Also see the previous topic about status categories are available, the **Patch Selection** button will be enabled. Click it to select and prepare all patches for installation. In the GUI, the icon of each schema that will be patched changes from to it, and the Messages pane at the bottom of the dialog lists the patches that will be applied. When you are ready to install the selected patches, click **Apply**. All patches will be applied together. Note that if you deselect a schema marked for patching, you will actually be uninstalling that schema.

On the CLI

To apply a patch at the command line interface:

- 1. Run the list -u command. This lists any schemas for which upgrades are available.
- 2. Run the upgrade 98 command to install all the patches.

Install an available schema

You can install schemas using either the Schema Manager GUI or by sending Schema Manager the install instructions via the command line.

Note: If the current schema references other schemas, the referenced schemas are also installed.

<u>In the GUI</u>

To install schemas using the Schema Manager GUI, select the schemas you want to install and click Apply.

You can also select the schemas you want to install at the <u>Altova website</u> and generate a downloadable <u>.altova_xmlschemas</u> file. When you double-click this file, it will open Schema Manager with the schemas you wanted pre-selected. All you will now have to do is click **Apply**.

On the CLI

To install schemas via the command line, run the install 5 command:

```
xmlschemamanager.exe install [options] Schema+
```

where schema is the schema (or schemas) you want to install or a .altova_xmlschemas file. A schema is referenced by an identifier of format <name>-<version>. (The identifiers of schemas are displayed when you run the list of command.) You can enter as many schemas as you like. For details, see the description of the install schemas of the ins

Note: On Linux or macOS, use the sudo ./xmlschemamanager command.

Installing a required schema

When you run an XML-schema-related command in StyleVision Server and StyleVision Server discovers that a schema it needs for executing the command is not present or is incomplete, Schema Manager will display information about the missing schema/s. You can then directly install any missing schema via Schema Manager.

In the Schema Manager GUI, you can view all previously installed schemas at any time by running Schema Manager from **Tools | Schema Manager**.

6.4 Uninstall a Schema, Reset

Uninstall a schema

You can uninstall schemas using either the Schema Manager GUI or by sending Schema Manager the uninstall instructions via the command line.

Note: If the schema you want to uninstall references other schemas, then the referenced schemas are also uninstalled.

In the GUI

To uninstall schemas in the Schema Manager GUI, clear their check boxes and click **Apply**. The selected schemas and their referenced schemas will be uninstalled.

To uninstall all schemas, click Deselect All and click Apply.

On the CLI

To uninstall schemas via the command line, run the uninstall graduate command:

xmlschemamanager.exe uninstall [options] Schema+

where each schema argument is a schema you want to uninstall or a .altova_xmlschemas file. A schema is specified by an identifier that has a format of <name>-<version>. (The identifiers of schemas are displayed when you run the list of command.) You can enter as many schemas as you like. For details, see the description of the uninstall of command.

Note: On Linux or macOS, use the sudo ./xmlschemamanager command.

Reset Schema Manager

You can reset Schema Manager. This removes all installed schemas and the cache directory.

- In the GUI, click Reset Selection.
- On the CLI, run the reset ⁹⁶ command.

After running this command, make sure to run the <u>initialize</u> command in order to recreate the cache directory. Alternatively, run the <u>reset</u> command with the -i option.

Note that $reset_{-i}$ restores the original installation of the product, so it is recommended to run the $reset_{-i}$ command after performing a reset. Alternatively, run the $reset_{-i}$ command with the -i and -u options.

6.5 Command Line Interface (CLI)

To call Schema Manager at the command line, you need to know the path of the executable. By default, the Schema Manager executable is installed here:

Windows	C:\ProgramData\Altova\SharedBetweenVersions\XMLSchemaManager.exe
Linux	/opt/Altova/StyleVisionServer2024/bin/xmlschemamanager
macOS	/usr/local/Altova/StyleVisionServer2024/bin/xmlschemamanager

Note: On Linux and macOS systems, once you have changed the directory to that containing the executable, you can call the executable with sudo ./xmlschemamanager. The prefix ./ indicates that the executable is in the current directory. The prefix sudo indicates that the command must be run with root privileges.

Command line syntax

The general syntax for using the command line is as follows:

```
<exec> -h | --help | --version | <command> [options] [arguments]
```

6.5.1 help

This command provides contextual help about commands pertaining to Schema Manager executable.

Syntax

<exec> help [command]

Where [command] is an optional argument which specifies any valid command name.

Note the following:

- You can invoke help for a command by typing the command followed by -h or --help, for example:
 <exec> list -h
- If you type -h or --help directly after the executable and before a command, you will get general help (not help for the command), for example: <exec> -h list

Example

The following command displays help about the list command:

xmlschemamanager help list

6.5.2 info

This command displays detailed information for each of the schemas supplied as a schema argument. This information for each submitted schema includes the title, version, description, publisher, and any referenced schemas, as well as whether the schema has been installed or not.

Syntax

<exec> info [options] Schema+

- The schema argument is the name of a schema or a part of a schema's name. (To display a schema's package ID and detailed information about its installation status, you should use the 1ist command.)
- Use <exec> info -h to display help for the command.

Example

The following command displays information about the latest DocBook-DTD and NITF schemas:

xmlschemamanager info doc nitf

6.5.3 initialize

This command initializes the Schema Manager environment. It creates a cache directory where information about all schemas is stored. Initialization is performed automatically the first time a schema-cognizant Altova application is installed. You would not need to run this command under normal circumstances, but you would typically need to run it after executing the reset command.

Syntax

```
<exec> initialize | init [options]
```

Options

The initialize command takes the following options:

```
--silent, --s

Display only error messages. The default is false.

--verbose, --v

Display detailed information during execution. The default is false.

Display help for the command.
```

Example

The following command initializes Schema Manager:

xmlschemamanager initialize

6.5.4 install

This command installs one or more schemas.

Syntax

```
<exec> install [options] Schema+
```

To install multiple schemas, add the schema argument multiple times.

The schema argument is one of the following:

- A schema identifier (having a format of <name>-<version>, for example: cbcr-2.0). To find out the schema identifiers of the schemas you want, run the list command. You can also use an abbreviated identifier if it is unique, for example docbook. If you use an abbreviated identifier, then the latest version of that schema will be installed.
- The path to a .altova_xmlschemas file downloaded from the Altova website. For information about these files, see *Introduction to SchemaManager: How It Works* 81.

Options

The install command takes the following options:

```
--silent, --s Display only error messages. The default is false.

--verbose, --v Display detailed information during execution. The default is false.

--help, --h Display help for the command.
```

Example

The following command installs the CBCR 2.0 (Country-By-Country Reporting) schema and the latest DocBook DTD:

```
xmlschemamanager install cbcr-2.0 docbook
```

6.5.5 list

This command lists schemas under the management of Schema Manager. The list displays one of the following

- All available schemas
- Schemas containing in their name the string submitted as a schema argument
- Only installed schemas
- · Only schemas that can be upgraded

Syntax

```
<exec> list | ls [options] Schema?
```

If no schema argument is submitted, then all available schemas are listed. Otherwise, schemas are listed as specified by the submitted options (see example below). Note that you can submit the schema argument multiple times.

Options

The list command takes the following options:

```
--installed, --i List only installed schemas. The default is false.

--upgradeable, --u List only schemas where upgrades (patches) are available. The default is false.

--help, --h Display help for the command.
```

Examples

- To list all available schemas, run: xmlschemamanager list
- To list installed schemas only, run: xmlschemamanager list -i
- To list schemas that contain either "doc" or "nitf" in their name, run: xmlschemamanager list doc
 nitf

6.5.6 reset

This command removes all installed schemas and the cache directory. You will be completely resetting your schema environment. After running this command, be sure to run the <u>initialize</u> command to recreate the cache directory. Alternatively, run the <u>reset</u> command with the -i option. Since <u>reset</u> -i restores the original installation of the product, we recommend that you run the <u>update</u> command after performing a reset and initialization. Alternatively, run the <u>reset</u> command with both the -i and -u options.

Syntax

```
<exec> reset [options]
```

Options

The reset command takes the following options:

init,i	Initialize Schema Manager after reset. The default is false.
update,u	Updates the list of available schemas in the cache. The default is false.
silent,s	Display only error messages. The default is false.
verbose,v	Display detailed information during execution. The default is false.

```
--help, --h
```

Display help for the command.

Examples

- To reset Schema Manager, run: xmlschemamanager reset
- To reset Schema Manager and initialize it, run: xmlschemamanager reset -i
- To reset Schema Manager, initialize it, and update its schema list, run: xmlschemamanager reset -i
 -u

6.5.7 uninstall

This command uninstalls one or more schemas. By default, any schemas referenced by the current one are uninstalled as well. To uninstall just the current schema and keep the referenced schemas, set the option --k.

Syntax

```
<exec> uninstall [options] Schema+
```

To uninstall multiple schemas, add the schema argument multiple times.

The schema argument is one of the following:

- A schema identifier (having a format of <name>-<version>, for example: cbcr-2.0). To find out the schema identifiers of the schemas that are installed, run the list _i
 command. You can also use an abbreviated schema name if it is unique, for example docbook
 li you use an abbreviated name, then all schemas that contain the abbreviation in its name will be uninstalled.
- The path to a .altova_xmlschemas file downloaded from the Altova website. For information about these files, see *Introduction to SchemaManager: How It Works* 81.

Options

The uninstall command takes the following options:

```
--keep-references, --k

Set this option to keep referenced schemas. The default is false.

--silent, --s

Display only error messages. The default is false.

--verbose, --v

Display detailed information during execution. The default is false.

Display help for the command.
```

Example

The following command uninstalls the CBCR 2.0 and EPUB 2.0 schemas and their dependencies: xmlschemamanager uninstall cbcr-2.0 epub-2.0

The following command uninstalls the eba-2.10 schema but not the schemas it references:

```
xmlschemamanager uninstall --k cbcr-2.0
```

6.5.8 update

This command queries the list of schemas available from the online storage and updates the local cache directory. You should not need to run this command unless you have performed a reset and initialize 4.

Syntax

```
<exec> update [options]
```

Options

The update command takes the following options:

```
--silent, --s Display only error messages. The default is false.

--verbose, --v Display detailed information during execution. The default is false.

--help, --h Display help for the command.
```

Example

The following command updates the local cache with the list of latest schemas:

```
xmlschemamanager update
```

6.5.9 upgrade

This command upgrades all installed schemas that can be upgraded to the latest available *patched* version. You can identify upgradeable schemas by running the List_-u command.

Note: The upgrade command removes a deprecated schema if no newer version is available.

Syntax

```
<exec> upgrade [options]
```

Options

The upgrade command takes the following options:

silent,s	Display only error messages. The default is false.
verbose,v	Display detailed information during execution. The default is false.
help,h	Display help for the command.

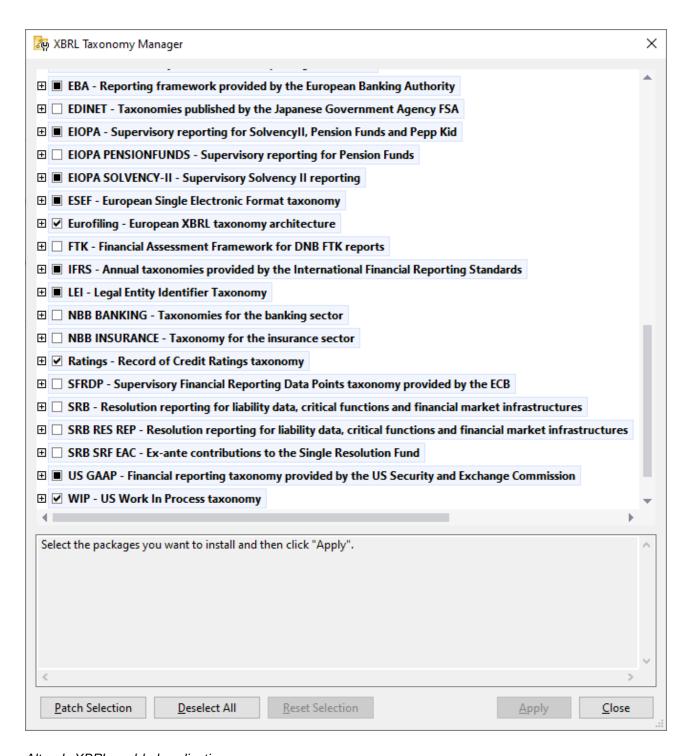
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7 Taxonomy Manager

XBRL Taxonomy Manager is an Altova tool that provides a centralized way to install and manage XBRL taxonomies for use across all Altova's XBRL-enabled applications, including StyleVision Server.

• On Windows, Taxonomy Manager has a graphical user interface (*screenshot below*) and is also available at the command line. (Altova's desktop applications are available on Windows only; *see list below*.)

• On Linux and macOS, Taxonomy Manager is available at the command line only. (Altova's server applications are available on Windows, Linux, and macOS; see *list below*.)



Altova's XBRL-enabled applications

Desktop applications (Windows only)	Server applications (Windows, Linux, macOS)	
Altova XBRL Add-ins for Excel (EBA, ESEF, Solvency II, WIP)	MapForce Server (Standard and Advanced Editions)	

Taxonomy Manager 101

MapForce Enterprise Edition	RaptorXML+XBRL Server
StyleVision Enterprise Edition	StyleVision Server
XMLSpy Enterprise Edition	

Installation and de-installation of Taxonomy Manager

Taxonomy Manager is installed automatically when you first install a new version of Altova Mission Kit Enterprise Edition or of any of Altova's XBRL-enabled applications (see table above).

Likewise, it is removed automatically when you uninstall the last Altova XBRL-enabled application from your computer.

Taxonomy Manager features

Taxonomy Manager provides the following features:

- Shows XBRL taxonomies installed on your computer and checks whether new versions are available for download.
- Downloads newer versions of XBRL taxonomies independently of the Altova product release cycle. (Altova stores taxonomies online, and you can download them via Taxonomy Manager.)
- Install or uninstall any of the multiple versions of a given taxonomy (or all versions if necessary).
- An XBRL taxonomy may have dependencies on other taxonomies. When you install or uninstall a
 particular taxonomy, Taxonomy Manager informs you about dependent taxonomies and will
 automatically install or remove them as well.
- Taxonomy Manager uses the XML catalog mechanism to map schema references to local files. In the
 case of large XBRL taxonomies, processing will therefore be faster than if the taxonomies were at a
 remote location.
- All major taxonomies are available via Taxonomy Manager and are regularly updated for the latest versions. This provides you with a convenient single resource for managing all your taxonomies and making them readily available to all of Altova's XBRL-enabled applications.
- Changes made in Taxonomy Manager take effect for all Altova products installed on that machine.

Custom XBRL Taxonomies

If you need to work with custom XBRL taxonomies that are not included with Taxonomy Manager, you can add these taxonomies to the set of custom packages that StyleVision Server can reference. Do this as follows:

- In Altova desktop applications: Select the **Tools | Options** menu command, and go to the XBRL | Taxonomy Packages section. Browse for the ZIP package of your custom XBRL taxonomy. For more information, see the description of this command in your desktop product documentation.
- In Altova server applications: When running commands from the command line that support custom taxonomies, provide the --taxonomy-package or --taxonomy-package-config-file option. For example: In RaptorXML+XBRL Server, these options are supported by XBRL validation commands such as valxbrl or valxbrltaxonomy; in MapForce, they are supported by run command.

How it works

Altova stores all XBRL taxonomies used in Altova products online. This repository is updated when new versions of the taxonomies are released. Taxonomy Manager displays information about the latest available

taxonomies when invoked in both its GUI form as well as on the CLI. You can then install, upgrade or uninstall taxonomies via Taxonomy Manager.

Taxonomy Manager also installs taxonomies in one other way. At the Altova website (https://www.altova.com/taxonomy-manager) you can select a taxonomy and its dependent taxonomies that you want to install. The website will prepare a file of type <code>.altova_taxonomies</code> for download that contains information about your taxonomy selection. When you double-click this file or pass it to Taxonomy Manager via the CLI as an argument of the install 113 command, Taxonomy Manager will install the taxonomies you selected.

Local cache: tracking your taxonomies

All information about installed taxonomies is tracked in a centralized cache directory on your computer, located here:

Windows	C:\ProgramData\Altova\pkgs\.cache
Linux	/var/opt/Altova/pkgs\.cache
macOS	/var/Altova/pkgs

This cache directory is updated regularly with the latest status of taxonomies at Altova's online storage. These updates are carried out at the following times:

- Every time you start Taxonomy Manager.
- When you start StyleVision Server for the first time on a given calendar day.
- If StyleVision Server is open for more than 24 hours, the cache is updated every 24 hours.
- You can also update the cache by running the update (16) command at the command line interface.

The cache therefore enables Taxonomy Manager to continuously track your installed taxonomies against the taxonomies available online at the Altova website.

Do not modify the cache manually!

The local cache directory is maintained automatically based on the taxonomies you install and uninstall. It should not be altered or deleted manually. If you ever need to reset Taxonomy Manager to its original "pristine" state, then, on the command line interface (CLI): (i) run the reset command, and (ii) run the initialize command. (Alternatively, run the reset command with the --i option.)

HTTP proxy

You can use an HTTP proxy for Taxonomy Manager connections. The system's proxy settings will be used.

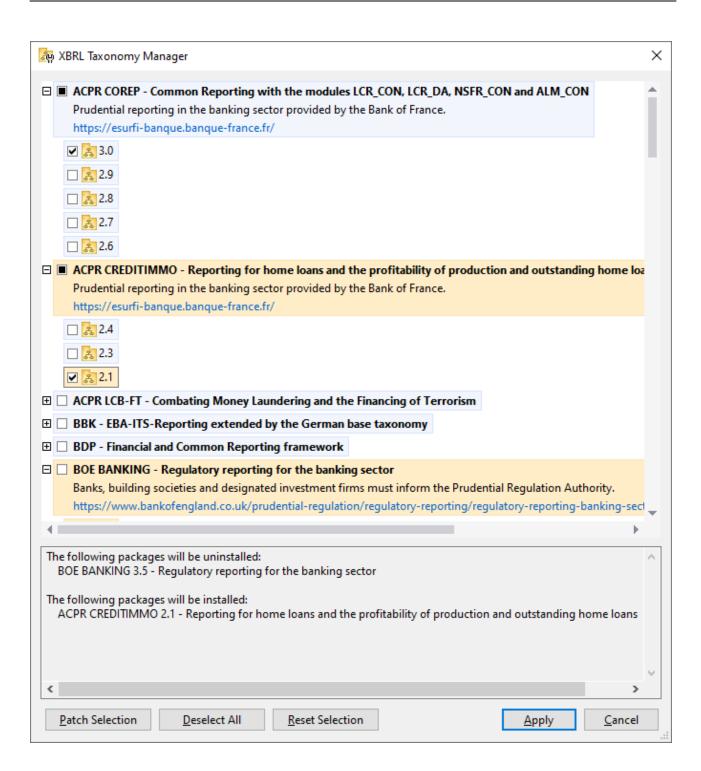
7.1 Run Taxonomy Manager

Graphical User Interface

You can access the GUI of Taxonomy Manager in any of the following ways:

- During the installation of StyleVision Server: Towards the end of the installation procedure, select the
 check box Invoke Altova Taxonomy Manager to access the XBRL Taxonomy Manager GUI straight
 away. This will enable you to install taxonomies during the installation process of your Altova
 application.
- Via the _altova_taxonomies file downloaded from the <u>Altova's XBRL Taxonomy Download Center</u>:
 Double-click the downloaded file to run the Taxonomy Manager GUI, which will be set up to install the taxonomies you selected (at the website) for installation.

After the Taxonomy Manager GUI (*screenshot below*) has been opened, already installed taxonomies will be shown selected. If you want to install an additional taxonomy, select it. If you want to uninstall an already installed taxonomy, deselect it. After you have made your selections and/or deselections, you are ready to apply your changes. The taxonomies that will be installed or uninstalled will be highlighted and a message about the upcoming changes will be posted to the Messages pane at the bottom of the Taxonomy Manager window (*see screenshot*).



Command line interface

You can run Taxonomy Manager from a command line interface by sending commands to its executable file, taxonomymanager.exe.

The taxonomymanager.exe file is located in the following folder:

- On Windows: C:\ProgramData\Altova\SharedBetweenVersions
- On Linux or macOS (server applications only): %INSTALLDIR%/bin, where %INSTALLDIR% is the program's installation directory.

You can then use any of the commands listed in the CLI command reference section.

To display help for the commands, run the following:

- On Windows: taxonomymanager.exe --help
- On Linux or macOS (server applications only): sudo ./taxonomymanager --help

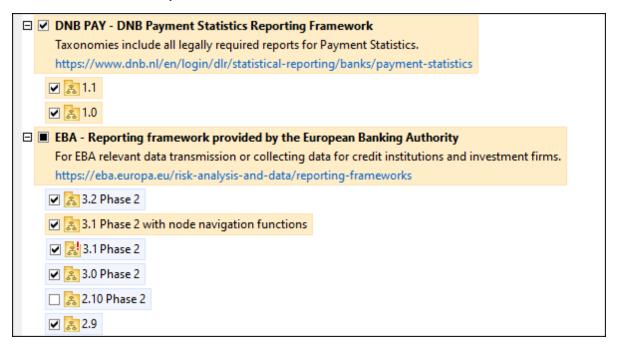
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7.2 Status Categories

Taxonomy Manager categorizes the taxonomies under its management as follows:

• Installed taxonomies. These are shown in the GUI with their check boxes selected (in the screenshot below the checked versions of the DNB and EBA taxonomies are installed taxonomies). If all the versions of a taxonomy are selected, then the selection mark is a tick. If at least one version is unselected, then the selection mark is a solid colored square. You can deselect an installed taxonomy to uninstall it.

• *Uninstalled available taxonomies.* These are shown in the GUI with their check boxes unselected. You can select the taxonomies you want to **install**.



• *Upgradeable taxonomies* are those which have been revised by their issuers since they were installed. They are indicated in the GUI by a icon (see screenshot above). You can **patch** an installed taxonomy with an available revision.

Points to note

- In the screenshot above, both DNB taxonomies and some of the EBA taxonomies are checked. Those with the blue background are already installed. Those with the yellow background are uninstalled and have been selected for installation. Note that (i) the EBA 2.10 Phase 2 taxonomy is not installed and has not been selected for installation, (ii) the EBA 3.1 Phase 2 taxonomy has been installed, but it has been patched by its issuer since it was installed and the patch has not yet been installed.
- When running Taxonomy Manager from the command line, the <u>list</u> 13 command is used with different options to list different categories of taxonomies:

taxonomymanager.exe list	Lists all installed and available taxonomies; upgradeables are also indicated

Taxonomy Manager Status Categories 107

taxonomymanager.exe list	Lists installed taxonomies only; upgradeables are also indicated
taxonomymanager.exe list	Lists upgradeable taxonomies

Note: On Linux and macOS, use sudo ./taxonomymanager list

7.3 Patch or Install a Taxonomy

Patch an installed taxonomy

Occasionally, XBRL taxonomies may receive patches (upgrades or revisions) from their issuers. When Taxonomy Manager detects that patches are available, these are indicated in the taxonomy listings of Taxonomy Manager and you can install the patches quickly.

In the GUI

Patches are indicated by the icon. (Also see the previous topic about status categories.) If patches are available, the **Patch Selection** button will be enabled. Click it to select and prepare all patches for installation. In the GUI, the icon of each taxonomy that will be patched changes from to install the Messages pane at the bottom of the dialog lists the patches that will be applied. When you are ready to install the selected patches, click **Apply**. All patches will be applied together. Note that if you deselect a taxonomy marked for patching, you will actually be uninstalling that taxonomy.

On the CLI

To apply a patch at the command line interface:

- 1. Run the <u>list -u¹¹³</u> command. This lists any taxonomies where patch upgrades are available.
- 2. Run the upgrade 116 command to install all the patches.

Install an available taxonomy

You can install taxonomies using either the Taxonomy Manager GUI or by sending Taxonomy Manager the install instructions via the command line.

Note: If the current taxonomy references other taxonomies, the referenced taxonomies are also installed.

In the GUI

To install taxonomies using the Taxonomy Manager GUI, select the taxonomies you want to install and click **Apply**.

You can also select the taxonomies you want to install at the <u>Altova website</u> and generate a downloadable <u>.altova_taxonomies</u> file. When you double-click this file, it will open Taxonomy Manager with the taxonomies you wanted pre-selected. All you will now have to do is click **Apply**.

On the CLI

To install taxonomies via the command line, run the install command:

taxonomymanager.exe install [options] Taxonomy+

where Taxonomy is the taxonomy (or taxonomies) you want to install or a .altova_taxonomies file. A taxonomy is referenced by an identifier of format <name>-<version>. (The identifiers of taxonomies are displayed when you run the list of taxonomies are displayed when you run the list of taxonomies are displayed when you run the list of taxonomies are details, see the description of the install taxonomies are displayed when you run the list of

Note: On Linux or macOS, use the sudo ./taxonomymanager command.

Installing a required taxonomy

When you run an XBRL-related command in StyleVision Server and StyleVision Server discovers that a taxonomy it needs for executing the command is not present or is incomplete, Taxonomy Manager will display information about the missing taxonomy. You can then directly install any missing taxonomy via Taxonomy Manager.

In the Taxonomy Manager GUI, you can view all previously installed taxonomies at any time by running Taxonomy Manager from **Tools | Taxonomy Manager**.

7.4 Uninstall a Taxonomy, Reset

Uninstall a taxonomy

You can uninstall taxonomies using either the Taxonomy Manager GUI or by sending Taxonomy Manager the uninstall instructions via the command line.

Note: If the taxonomy you want to uninstall references other taxonomies, then the referenced taxonomies are also uninstalled.

In the GUI

To uninstall taxonomies in the Taxonomy Manager GUI, clear their check boxes and click **Apply**. The selected taxonomies and their referenced taxonomies will be uninstalled.

To uninstall all taxonomies, click **Deselect All** and click **Apply**.

On the CLI

To uninstall taxonomies via the command line, run the uninstall command:

taxonomymanager.exe uninstall [options] Taxonomy+

where each Taxonomy argument is a taxonomy you want to uninstall or a .altova_taxonomies file. A taxonomy is specified by an identifier that has a format of <name>-<version>. (The identifiers of taxonomies are displayed when you run the list 113 command.) You can enter as many taxonomies as you like. For details, see the description of the uninstall 115 command.

Note: On Linux or macOS, use the sudo ./taxonomymanager command.

Reset Taxonomy Manager

You can reset Taxonomy Manager.

- In the GUI, click Reset Selection. This resets the the GUI to show what taxonomies are currently
 installed. Any selections or de-selections that the user has made in the current session will be
 canceled
- On the CLI, run the <u>reset</u> 114 command. This removes all installed taxonomies and the cache directory.

After running this command, make sure to run the $\underline{initialize}^{112}$ command in order to recreate the cache directory. Alternatively, run the \underline{reset}^{114} command with the -i option.

Note that \underline{reset}_{-i} restores the original installation of the product, so it is recommended that you run the \underline{update}^{116} command after performing a reset. Alternatively, run the \underline{reset}^{114} command with the -i and -u options.

7.5 Command Line Interface (CLI)

To call Taxonomy Manager at the command line, you need to know the path of the executable. By default, the Taxonomy Manager executable is installed here:

Windows	C:\ProgramData\Altova\SharedBetweenVersions\TaxonomyManager.exe
Linux	/opt/Altova/StyleVisionServer2024/bin/taxonomymanager
macOS	/usr/local/Altova/StyleVisionServer2024/bin/taxonomymanager

Note: On Linux and macOS systems, once you have changed the directory to that containing the executable, you can call the executable with sudo taxonomymanager. The prefix jointered indicates that the command must be run with root privileges.

Command line syntax

The general syntax for using the command line is as follows:

```
<exec> -h | --help | --version | <command> [options] [arguments]
```

7.5.1 help

This command provides contextual help about commands pertaining to Taxonomy Manager executable.

Syntax

```
<exec> help [command]
```

Where [command] is an optional argument which specifies any valid command name.

Note the following:

- You can invoke help for a command by typing the command followed by -h or --help, for example:
 <exec> list -h
- If you type -h or --help directly after the executable and before a command, you will get general help (not help for the command), for example: <exec> -h list

Example

The following command displays help about the list command:

taxonomymanager help list

7.5.2 info

This command displays detailed information for each of the taxonomies supplied as a Taxonomy argument. This information for each submitted taxonomy includes the title, version, description, publisher, and any dependent taxonomies, as well as whether the taxonomy has been installed or not.

Syntax

<exec> info [options] Taxonomy+

- The Taxonomy argument is the name of a taxonomy or a part of a taxonomy's name. (To display a taxonomy's package ID and detailed information about its installation status, you should use the list 13 command.)
- Use <exec> info -h to display help for the command.

Example

The following command displays information about the eba-2.10 and us-gaap-2020.0 taxonomies:

```
taxonomymanager info eba-2.1.0 us-gaap-2020.0
```

7.5.3 initialize

This command initializes the Taxonomy Manager environment. It creates a cache directory where information about all taxonomies is stored. Initialization is performed automatically the first time an XBRL-enabled Altova application is installed. You would not need to run this command under normal circumstances, but you would typically need to run it after executing the reset command.

Syntax

```
<exec> initialize | init [options]
```

Options

The initialize command takes the following options:

```
--silent, --s

Display only error messages. The default is false.

--verbose, --v

Display detailed information during execution. The default is false.

Display help for the command.
```

Example

The following command initializes Taxonomy Manager:

taxonomymanager initialize

7.5.4 install

This command installs one or more taxonomies.

Syntax

```
<exec> install [options] Taxonomy+
```

To install multiple taxonomies, add the Taxonomy argument multiple times.

The Taxonomy argument is one of the following:

- A taxonomy identifier (having a format of <name>-<version>, for example: eba-2.10). To find out the taxonomy identifiers of the taxonomies you want, run the list command. You can also use an abbreviated identifier if it is unique, for example eba. If you use an abbreviated identifier, then the latest version of that taxonomy will be installed.
- The path to a **.altova_taxonomies** file downloaded from the Altova website. For information about these files, see *Introduction to TaxonomyManager: How It Works* ⁽⁹³⁾.

Options

The install command takes the following options:

```
--silent, --s

Display only error messages. The default is false.

--verbose, --v

Display detailed information during execution. The default is false.

Display help for the command.
```

Example

The following command installs the latest eba (European Banking Authority) and us-gaap (US Generally Accepted Accounting Principles) taxonomies:

```
taxonomymanager install eba us-gaap
```

7.5.5 list

This command lists taxonomies under the management of Taxonomy Manager. The list displays one of the following

- All available taxonomies
- Taxonomies containing in their name the string submitted as a Taxonomy argument
- Only installed taxonomies
- · Only taxonomies that can be upgraded

Syntax

```
<exec> list | ls [options] Taxonomy?
```

If no Taxonomy argument is submitted, then all available taxonomies are listed. Otherwise, taxonomies are listed as specified by the submitted options (see example below). Note that you can submit the Taxonomy argument multiple times.

Options

The list command takes the following options:

```
--installed, --i List only installed taxonomies. The default is false.

--upgradeable, --u List only taxonomies where upgrades (patches) are available. The default is false.

--help, --h Display help for the command.
```

Examples

- To list all available taxonomies, run: taxonomymanager list
- To list installed taxonomies only, run: taxonomymanager list -i
- To list taxonomies that contain either "eba" or "us-gaap" in their name, run: taxonomymanager list eba us-gaap

7.5.6 reset

This command removes all installed taxonomies and the cache directory. You will be completely resetting your taxonomy environment. After running this command, be sure to run the <u>initialize</u> command to recreate the cache directory. Alternatively, run the <u>reset</u> command with the -i option. Since <u>reset</u> -i restores the original installation of the product, we recommend that you run the <u>update</u> command after performing a reset and initialization. Alternatively, run the reset command with both the -i and -u options.

Syntax

```
<exec> reset [options]
```

Options

The reset command takes the following options:

init,i	Initialize Taxonomy Manager after reset. The default is false.
update,u	Updates the list of available taxonomies in the cache. The default is false.
silent,s	Display only error messages. The default is false.
verbose,v	Display detailed information during execution. The default is false.

```
--help, --h
```

Display help for the command.

Examples

- To reset Taxonomy Manager, run: taxonomymanager reset
- To reset Taxonomy Manager and initialize it, run: taxonomymanager reset -i
- To reset Taxonomy Manager, initialize it, and update its taxonomy list, run: taxonomymanager reset i -u

7.5.7 uninstall

This command uninstalls one or more taxonomies. By default, any taxonomies referenced by the current one are uninstalled as well. To uninstall just the current taxonomy and keep the referenced taxonomies, set the option --k.

Syntax

```
<exec> uninstall [options] Taxonomy+
```

To uninstall multiple taxonomies, add the Taxonomy argument multiple times.

The Taxonomy argument is one of the following:

- A taxonomy identifier (having a format of <name>-<version>, for example: eba-2.10). To find out the taxonomy identifiers of the taxonomies that are installed, run the list -i command. You can also use an abbreviated taxonomy name if it is unique, for example eba. If you use an abbreviated name, then all taxonomies that contain the abbreviation in its name will be uninstalled.
- The path to a .altova_taxonomies file downloaded from the Altova website. For information about these files, see *Introduction to TaxonomyManager: How It Works* 99.

Options

The uninstall command takes the following options:

```
--keep-references, --k

Set this option to keep referenced taxonomies. The default is false.

--silent, --s

Display only error messages. The default is false.

--verbose, --v

Display detailed information during execution. The default is false.

Display help for the command.
```

Example

The following command uninstalls the eba-2.10 and us-gaap-2020.0 taxonomies and their dependencies: taxonomymanager uninstall eba-2.10 us-gaap-2020.0

The following command uninstalls the eba-2.10 taxonomy but not the taxonomies it references:

```
taxonomymanager uninstall --k eba-2.10
```

7.5.8 update

This command queries the list of taxonomies available from the online storage and updates the local cache directory. You should not need to run this command unless you have performed a reset and initialize 112.

Syntax

```
<exec> update [options]
```

Options

The update command takes the following options:

silent,s	Display only error messages. The default is false.
verbose,v	Display detailed information during execution. The default is false.
help,h	Display help for the command.

Example

The following command updates the local cache with the list of latest taxonomies:

```
taxonomymanager update
```

7.5.9 upgrade

This command upgrades all installed taxonomies that can be upgraded to the latest available *patched* version. You can identify upgradeable taxonomies by running the list -u¹¹³ command.

Note: The upgrade command removes a deprecated taxonomy if no newer version is available.

Syntax

```
<exec> upgrade [options]
```

Options

The upgrade command takes the following options:

silent,s	Display only error messages. The default is false.
verbose,v	Display detailed information during execution. The default is false.
help,h	Display help for the command.

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