

Setting up

Servoy Developer is a plugin for the Eclipse platform, so to develop the Servoy codebase an Eclipse SDK environment with Eclipse Plugin development facilities is required.

In order to get started with development on the open source Servoy projects, the following is required:

1. A Servoy Developer installation
2. The Servoy Server libraries
3. A separate Eclipse environment with the Eclipse plugin development tools installed
4. Configuration of the Eclipse installation



Servoy 5.2 branch instructions

These instructions are for trunk and any future branches, but are not relevant for the Servoy 5.2 branch. For instructions how to setup for Servoy 5.2 development, see [Setting up \(Servoy 5.2 branch only\)](#)

Quick start for the impatient

- Install Servoy Developer
- Install an Eclipse distribution that contains the plugin development tools for Eclipse (PDE), for example Eclipse Classic
- Setup a String Substitution variable named "servoy_install" which points to the installation directory of the previously installed Servoy Developer
- Create a ClassPath variable named "WEBSTART" that points to javaws.jar of the used JVM
- Checkout the open source Servoy projects from <https://subversion.servoy.com/product>
- Download the Servoy Server libraries from <http://build.servoy.com/latest> and place them in the "libs_extra" directory of the eclipse_target project. Download only the files who's name postfix matches the value of the release number in the ClientVersion class in the checked-out source code
- Setup a Target Platform by:
 - Opening the servoy.target file, located in the "eclipse_target" project
 - Make sure the entry for "\${workspace_loc}/eclipse_target/libs_extra" display "(x of x included)", where x is equal to the number of libraries (.jar files) in the libs_extra directory. If not, force a refresh by selecting the entry, clicking Edit > Finish and then Control-S to save the editor
 - Clicking the link "Set as Target Platform" of the Target editor
- Create a Launch Configuration (and directly start a debug session) by right-clicking the "Servoy Launch.launch" (or "Servoy Launch_mac.launch" when on OSX) file in the "launch_files" directory of the "com.servoy.eclipse.core" project and selecting Debug as > "Servoy Launch" (or Servoy Launch_mac when on OSX).

Installing Servoy Developer

An installation of Servoy Developer is required in order to be able to launch Servoy Developer from source code, because the source depends on the directory structure that is present in a Servoy Developer installation.

The installer for Servoy Developer can be downloaded at <http://www.servoy.com/download>. Running the installer will install Servoy Developer. For a more indepth description of installing Servoy Developer, see [Installing Servoy Developer](#).

Installing Eclipse with the Eclipse plugin development tools

The open source Servoy projects are all plugins for the Eclipse environment, so in order to develop on the projects a Eclipse version with Eclipse plugin development tools (PDE) installed is required.

The Eclipse.org download page (<http://www.eclipse.org/downloads/>) lists a wide range of prepackaged Eclipse distributions. See <http://www.eclipse.org/downloads/packages/compare-packages> for the overview of what each Eclipse distribution contains.

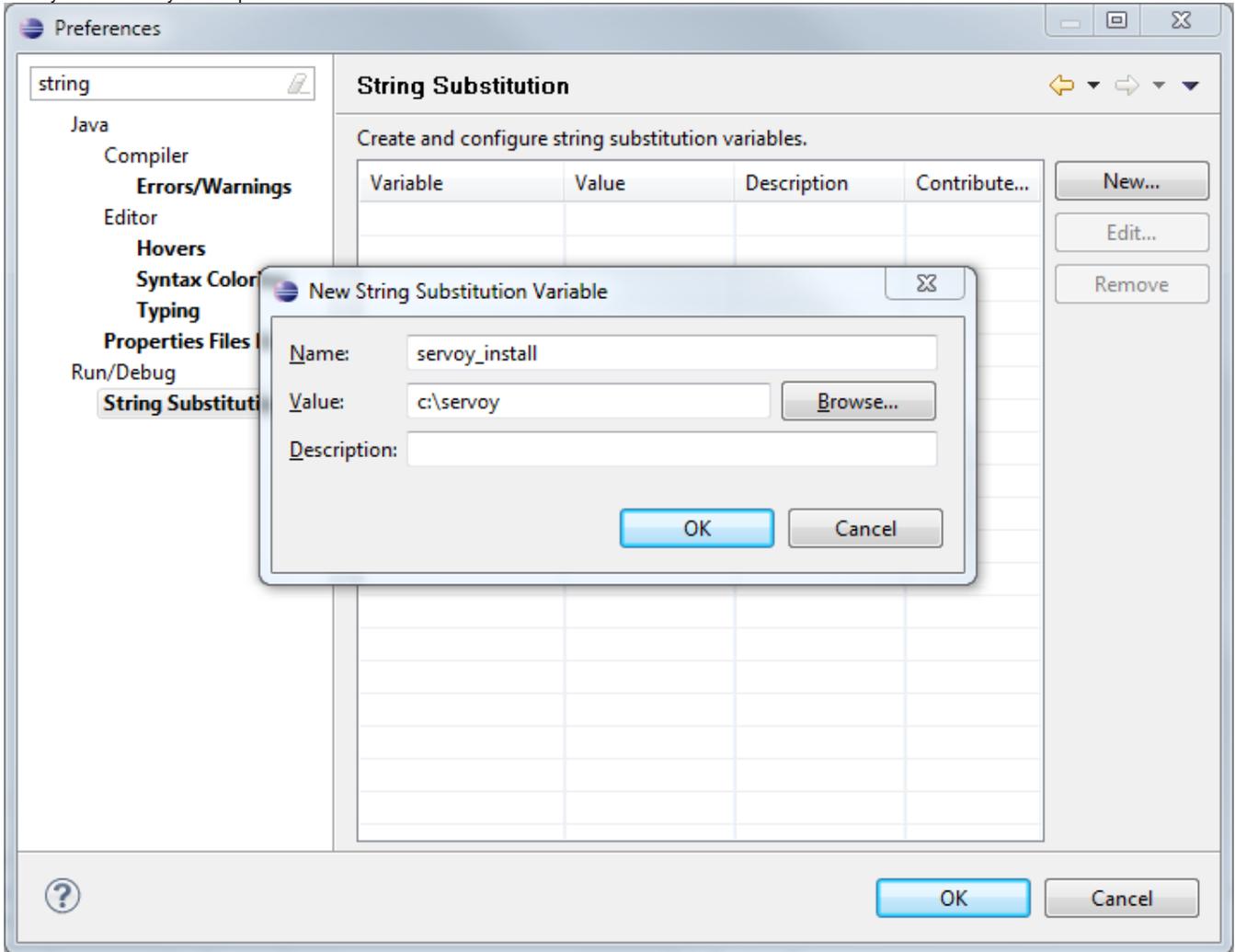
One of the offered distributions that includes PDE is the Eclipse Classic distribution. Although the plugin development tools can be installed in any Eclipse environment, the easiest is to download the 'Eclipse Classic' distribution and install it.

Configuration

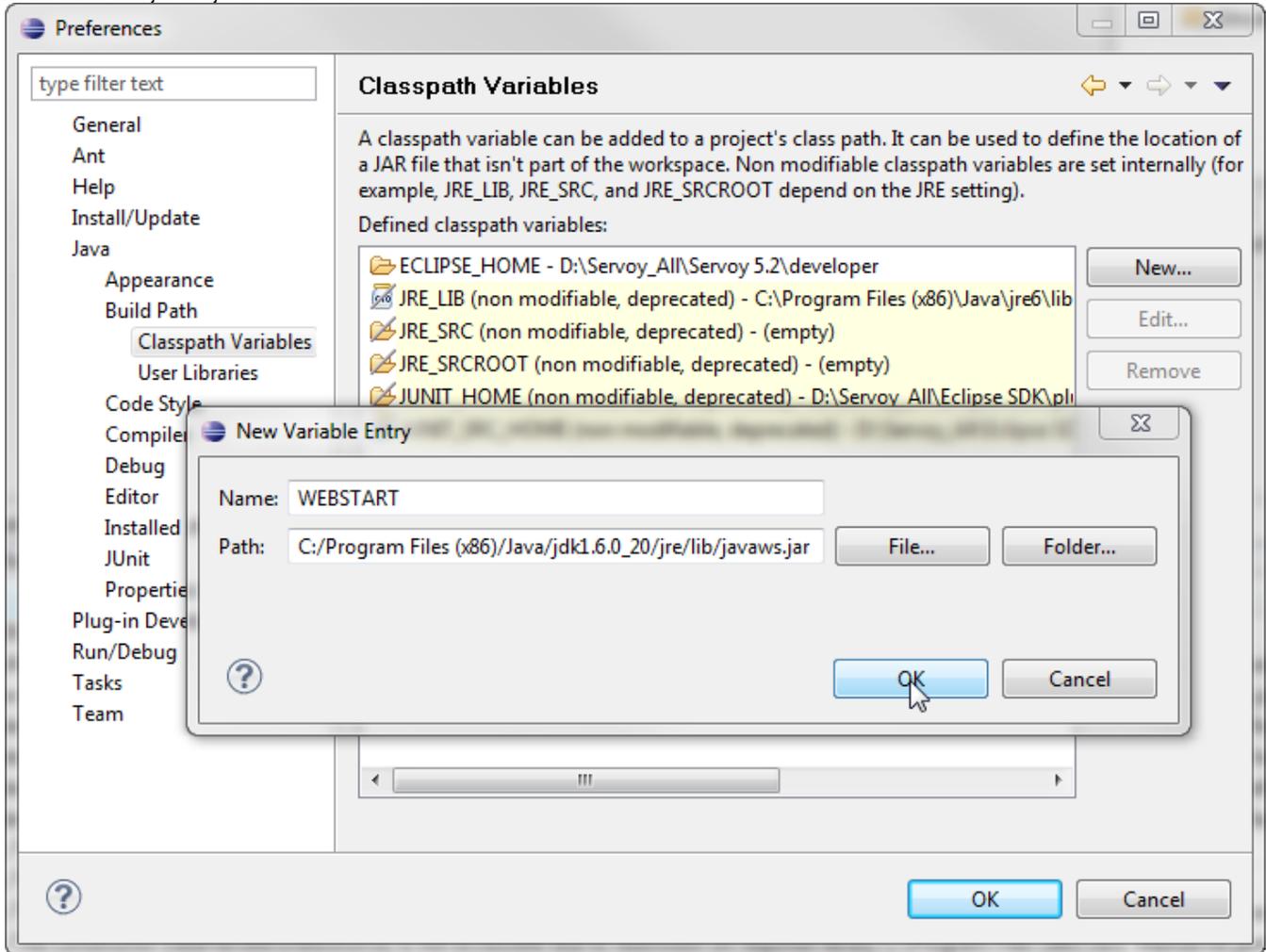
Start the downloaded and installed Eclipse installation and choose or create a workspace in which the development on the open source projects of Servoy will take place.

After startup, the following configuration needs to be done:

Setup a variable: Go to Window > Preferences > Run/Debug > String Substitution and create a new variable named 'servoy_install' with the value of the directory where Servoy Developer is installed.



Create a classpath variable: Go to Window > Preferences > Java > Build Path > Classpath Variables and create a new variable named 'WEBSTART' with the value of javaws.jar in the Java installation.

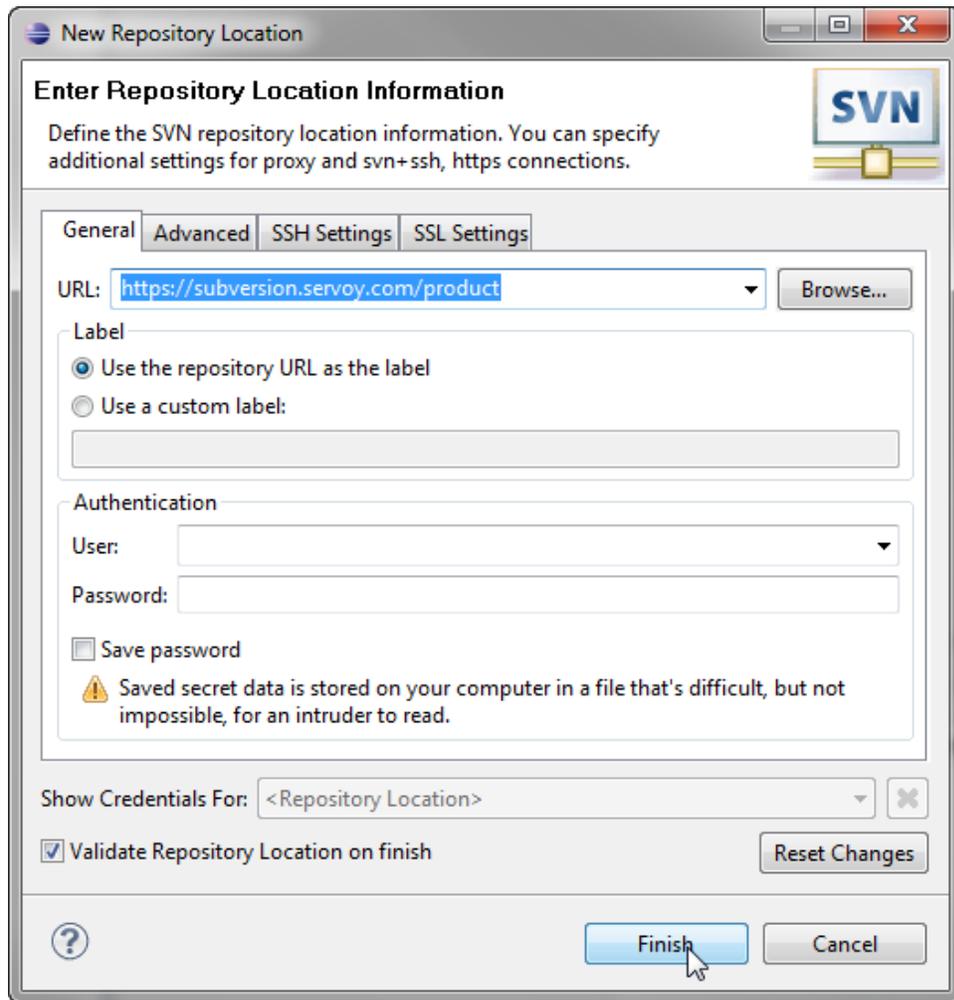


Setup a connection to the Servoy SVN:

- Open the SVN Perspective: Window > Open Perspective > Other > SVN Repository Exploring

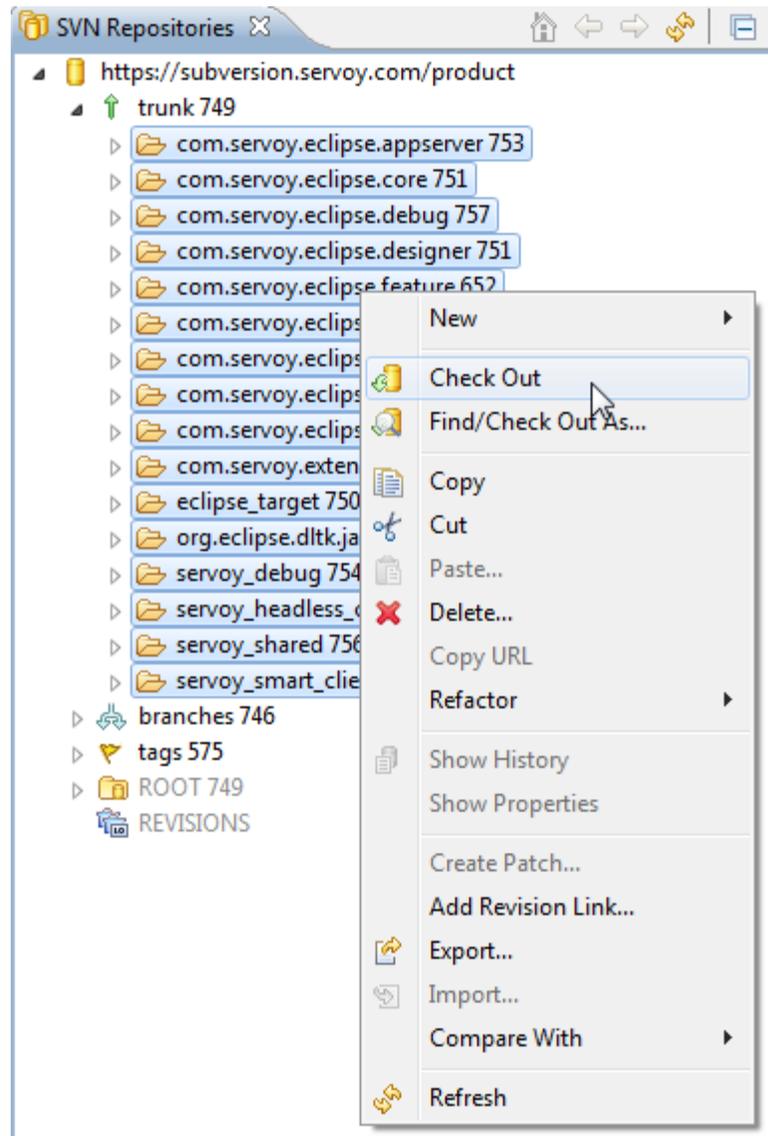
 If the SVN Repository Exploring perspective is not available, most likely there is no SVN Team Provider installed. For more information on installing an SVN Team Provider see [SVN Team Provider](#)

- Add a new Repository Location: File > New > Repository Location
 - Specify the URL 'https://subversion.servoy.com/product' and click 'Finish'



Checkout the Servoy projects:

- Expand the tree structure under the newly created Repository Location to the desired version to work on. Make sure to select the version of the projects that match the version of the previously installed Servoy Developer.
- Select all the projects
- Right-click one of the selected projects and select "Check Out" from the context menu

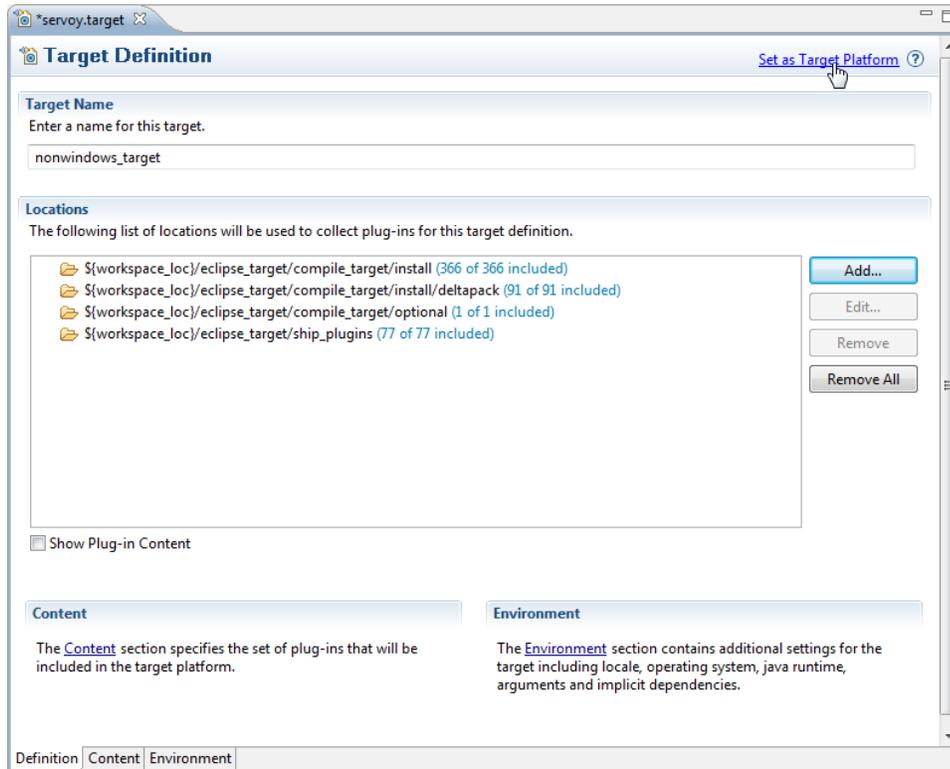


Download Servoy Server libraries

In order to also be able to start debug clients from Servoy Developer launched from the source code, it is required to use the correct version of several libraries of the Servoy Application Server. The latest version of these libraries can be downloaded from the Servoy build server, located at <http://build.servoy.com/latest>. Download all the libraries from the subdirectory for a specific branch or for trunk who's name postfix matched the value of the releaseNumber variable in the ClientVersion class of the checked-out source code and place them in the "libs_extra" directory of the eclipse_target project

Setup the Target Platform:

- Switch to the Java Perspective: Window > Open Perspective > Java
- Expand the eclipse_target project in the Package Explorer
- Open (double-click) the servoy.target file
- Click the 'Set as Target Platform'. This will setup the Target Platform correctly, after which projects will be build and should compile without error.



Creating a Launch Configuration: Last step in the setup of the environment is the creation of a Launch Configuration.

- Expand to com.servoy.eclipse.core > launch_files in the Package Explorer
- Right-click the "Servoy Launch.launch" file (or the "Servoy Launch_mac.launch file when on OSX") and select Debug As > Servoy Launch
The steps above will install the configuration contained in the "Servoy Launch.launch" file as a launch configuration and launch a Servoy Developer as a debug session



Upgrade notification on startup

When starting Servoy Developer from source code, it is most likely that a notification is shown indicating that the Servoy Application Server version should be upgraded. This message can be canceled and ignored.

When starting a debug session, Servoy Developer will launch with settings of the Launch Configuration. By default the workspace for example that is opened is set to "/workspace", relative to the Servoy Developer installation.

To edit the launch settings, open Run > Debug Configurations > Eclipse Application > Servoy Launch and edit the settings.

Ready: After completing the steps described above, the Eclipse installation is setup correctly to launch Servoy Developer in a debug session:

- Run > Debug (or F11)

Optional additional configuration

*Adding other features to the target: *If additional features are required in the Servoy Developer that is launched from source code, for example an SVN Team Provider plugin, an easy way to achieve this is by adding the feature(s) to the target Definition.

- Make sure the feature is installed in a Eclipse installation, doesn't have to be a Servoy Developer installation, can also be the Eclipse SDK from which the development on the Servoy open source projects is being done.
- Open the servoy.target file in the root of the eclipse_target project
- Click Add > Features > Next
- Point the location to an installation directory of Eclipse. Note that when using a Servoy Developer instance in this case, the /developer is the directory to point to.
- Check the feature(s) to be included and press Finish.
- Click the "Set as Target Platform" link again.