CIShell 2.0 - Setting Up the Development Environment

> (i) **Newer Doc**
>
> Newer documentation is in the works.

Prerequisites

The following tools are needed for CIShell development. Download them to your local machine and install or unzip them.

- Eclipse Java EE Developers (Kepler through Mars support verified): http://www.eclipse.org/downloads/
- CIShell executable: http://cishell.org/nightly/
- Sci2 executable: https://sci2.cns.iu.edu
- Java 6 or 7 installation: http://java.com/en/download/ – for Java 7 see note below

Useful links:

- CIShell Java Doc: http://cishell.org/dev/docs/spec/api-1.0/

> **Note:**
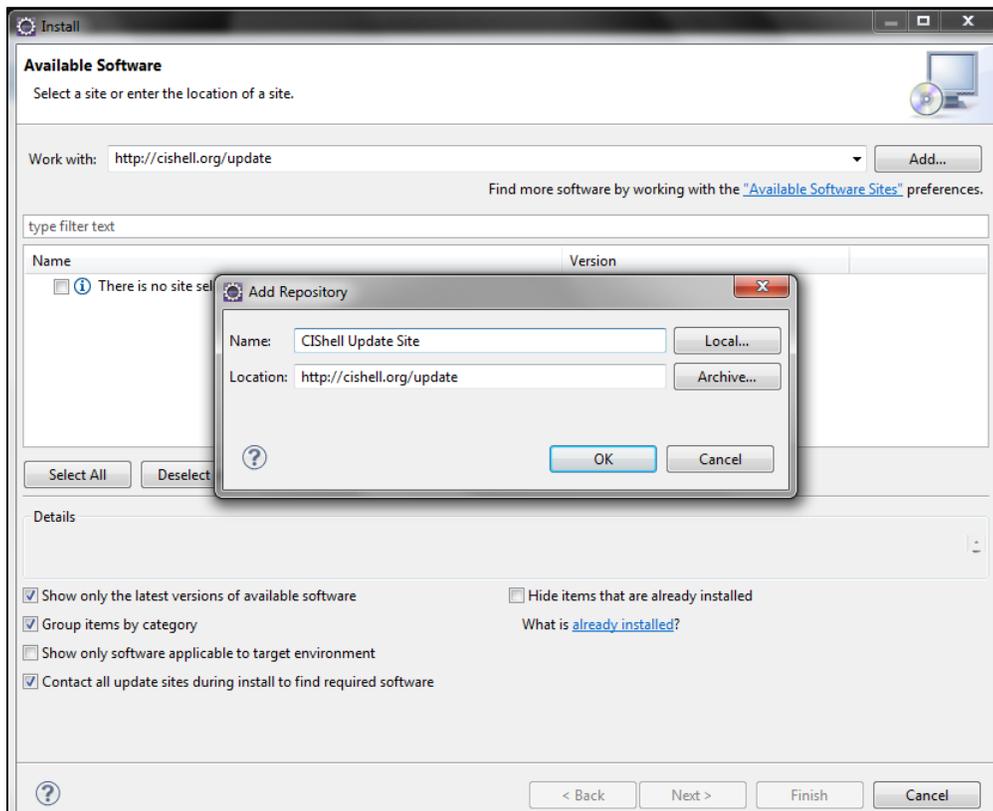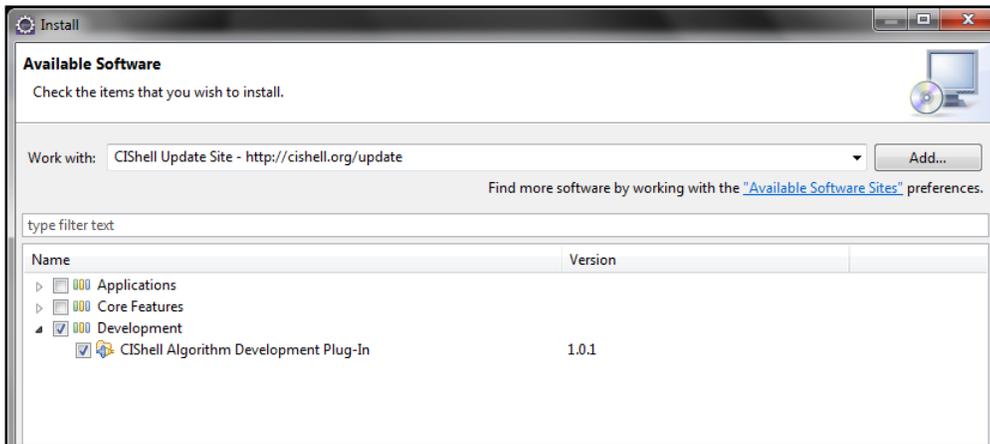>
> CIShell is currently unsupported on 64-bit Java 7. If you experience errors while following this guide, try using a 32-bit Java platform.

Setting Up the CIShell Development Tool

Download the CIShell development tool. Select `Help -> Install New Software` from Eclipse menu. Insert http://cishell.org/update into the `Work with` field as following and press `Add` button.

Give the location a descriptive name, such as CIShell Update Site and press `OK`. Select the `Development` checkbox as show in the following image.

Proceed with `Next` and accept the license. You will be given an unsigned content warning. Click `OK` to continue. Eclipse should prompt you to restart when the installation completes.

Setting Up CIShell Target Platform in Eclipse

Setting up the target platform will enable Eclipse to recognize remote libraries needed for CIShell. This setup allows you to develop a single plugin without checking out all the dependency libraries.

Get a copy of the CIShell target platform definition. It can be found here.

ⓘ **Sci2 Development**

If you are developing for the Sci2 tool, you should use the target platform definition found here or in source control instead.

Add the file to your workspace. Right-click and `Open With -> Target Editor`. In the upper right corner, click `Set as Target Platform`.

You should now have all the plugins available from CIShell.

You can view your Target Platform by navigating `Window -> Preferences -> Plug-in Development -> Target Platform`

ⓘ **Offline Development**

If you plan on developing offline or have the full source code, Tycho-era development and build setup is a much more appropriate solution.

Next Steps

Now that you've completed CIShell development setup, try **Developing a Single Plugin**