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Using Git with Eclipse for DS-5

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Release information

Document history

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0100-01	1 January 2023	Non-Confidential	Initial release

Proprietary Notice

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Contents

1. Overview

A source control system (SCS) allows you to version your source files and share them with other developers. There are many source control systems available, both commercial and open source. This tutorial explains how to integrate the open source Git source control system into Eclipse for DS-5. It assumes you are already familiar with the basic concepts of using Git.

2. Installation

Eclipse for DS-5 does not come with Git integration as standard, but this can be easily added afterwards. The EGit project provides Git integration into Eclipse.

To install the EGit plugins

Please follow the below steps:

1. Select **Install New Software...** from the Help menu in Eclipse.

2. Click the **Add button**, and enter the EGit update site URL, http://download.eclipse.org/egit/updates, into the Location field, and provide a suitable Name. Click **OK**.

   Figure 2-1: Add Repository dialog
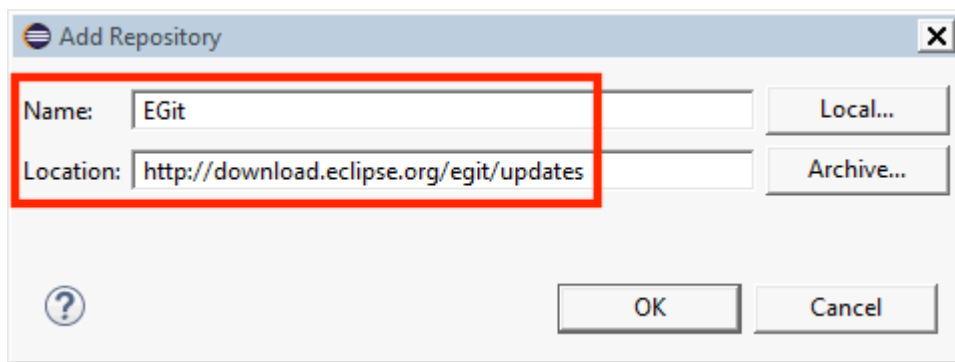
3. The Install dialog refreshes to list the available EGit plug-ins. Select the plug-ins named "EGit Team Provider" and "JGit". The "EGit Team Provider - experimental features (incubation)" plug-in is optional, and you can either expand the option or refer to the EGit website for further information on exactly what this provides.

Figure 2-2: Install dialog
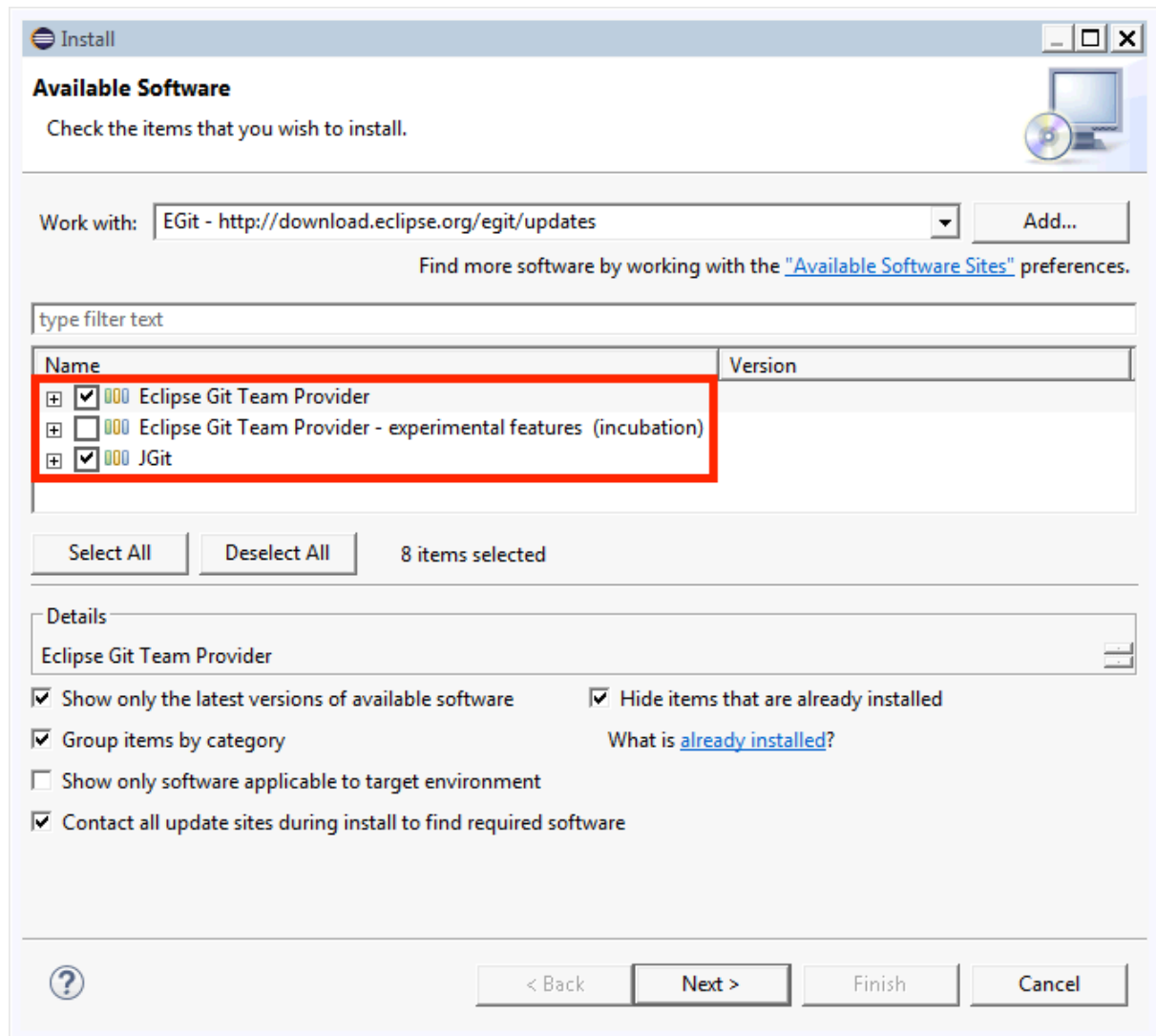
4. Click **Next** and review the plug-ins to be installed.

5. Click **Next** and review and accept the plug-in license agreements.

6. Click **Finish**. Installation of the plug-ins commences and might take a few minutes to 7. complete.

7. You might receive a warning during installation that the plug-ins are unsigned. Click **OK** to dismiss this warning.

8. At the end of installation you are prompted to restart Eclipse. It is recommended that you select **Yes** to restart Eclipse. Restarting ensures that the plug-ins are correctly initialized.

3. Using EGit

With EGit installed and configured you can now use it to manage your source projects. The following provides a summary of the features available:

- **Configuration:** You can review and change the settings for EGit by selecting **Preferences** from the **Window** menu, and then navigating to the **Team** > **Git** section in the tree.

- **Create a new local repository:** Select **New** > **Other...** from the **File** menu, choose **Git** > **Git Repository** from the dialog, and then click [Next. Enter the path for the new repository and click [Finish. The new repository is created, and you must then import the repository if you want to access it from within Eclipse.

- **Import projects from git:** Select **Import** from the **File** menu, and choose **Git** > **Projects from Git** from the dialog. Then follow through the dialog, adding either a local repository or a remote repository via a URI. You will be prompted to either import an existing Eclipse project from the repository or to create a new project. After import, the project is accessible in the Project Explorer view.

- **Checkout existing projects from git:** If you have an existing project in git you can check it out by selecting **Import** from the **File** menu, and then choosing the **SVN** > **Checkout projects** from SVN option.

- **Manage git projects:** Assuming you have a project in Eclipse that is stored in git, then you can update, review changes, revert changes and check-in from within the IDE. To do this, navigate to your project in the Project Explorer view and right-click on the project, a folder or a file, as appropriate, and use the **Team** menu to perform any source control operations.

- **Browse git repositories:** A separate Eclipse perspective is provided to allow browsing an entire git repository. To do this, select **Open Perspective** > **Other...** from the **Window** menu, choose the **Git** perspective and click **OK**. In the Git Repositories view you can register git repositories and browse their contents.

You can find lots more help on the EGit website or in the documentation that is installed into Eclipse by the EGit plug-ins.