



BLACKDUCK

Hub Plugin for Eclipse

Version 1.0.0



This edition of the *Hub Plugin for Eclipse* refers to version 1.0.0 of the Black Duck Hub Plugin for Eclipse.

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Please send your comments and suggestions to:

Black Duck Software, Incorporated
800 District Avenue
Suite 221
Burlington, MA 01803 USA.

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Chapter 1: Hub Eclipse Plugin Introduction

Black Duck® Hub™ provides a comprehensive environment in which to search, request, discuss, approve, and manage internally- and externally-developed components used in software development. Hub is designed to help software developers quickly and efficiently re-use software components in their applications.

The Hub Eclipse plugin provides inspection of your workspace projects, and gives you an overview of the transitive and direct component dependencies in the project's Maven or Gradle cache. It shows you:

- The component
- Component version
- Component license
- Vulnerability count, sorted by severity

The Hub Eclipse plugin initially displays basic information, but also enables you to further drill down by opening the specific component version in the Black Duck Hub. The Black Duck Hub provides a rich set of metadata about components and releases to give developers clear insights to help them make informed decisions when selecting components for use.

Chapter 2: Hub Eclipse Plugin Installation

The procedure for installing the Hub Eclipse plugin is as follows:

1. Download and install the Eclipse plugin.
2. Configure the plugin.

The following sections include detailed instructions.

2.1 Eclipse Plugin Requirements

Software Requirements

Before installing the Hub Eclipse plugin, your system must meet the following prerequisites:

- Black Duck Hub version 3.5 or higher.
- The appropriate Java Development Kit / Java Runtime Environment for your Eclipse version.
- Eclipse Neon 4.6 or higher.

For Hub installation instructions and system requirements, refer to the *Hub Installation Guide*.

For information regarding browser versions supported by Eclipse, refer to:

<http://www.eclipse.org/swt/faq.php#browserlinux>

For additional Eclipse information, refer to:

<http://www.eclipse.org/documentation/?sess=32267642b71e61a5209ee01bb85d8fdb>

Network Requirements

The Hub Eclipse plugin requires internet connectivity. The machine hosting your Eclipse environment must be able to connect to the Hub server.

2.2 Downloading and Installing the Hub Eclipse Plugin

You can download and install the Hub Eclipse plugin using the following process.

* To download and install the Hub Eclipse plugin:

1. Navigate to the Eclipse marketplace under Eclipse **Help** > **Eclipse Marketplace**.
2. Search for Black Duck.
3. In the search results, select *Black Duck Hub 1.0.0*.
4. Click **Install**.

5. Accept the license agreement, and click **Finish**.
6. If a **Security Warning** displays, click **OK** to continue.
7. When the installation completes, you are prompted to restart Eclipse. Click **Yes** to restart Eclipse.

Chapter 3: Configuring the Eclipse Plugin

You can configure the Hub Eclipse plugin for your environment using the following procedure.

Note: You must have a Hub user name and password to configure and use the Hub Eclipse plugin.

* To configure the Eclipse plugin:

1. In Eclipse, from the **Window** menu, select **Preferences**.
2. In the **Preferences** dialog box, click **Black Duck Hub**.
3. In the **Username** field, type your Hub user name.
4. In the **Password** field, type your Hub password.
5. In the **Instance URL** field, type the URL for your Hub server; for example, `http://<YourHub.example.com>/`.
6. Click **Test Connection**.
7. If your test is successful, click **Apply**.
8. Click **OK**.

3.1 Configuring a Proxy for the Eclipse Plugin

You can configure your environment proxy for the Hub Eclipse plugin using the following procedure. Note that configuring a proxy is optional.

* To configure a proxy:

1. In Eclipse, from the **Window** menu, select **Preferences**.
2. In the **Preferences** dialog box, click **Black Duck Hub**.
3. In the **Proxy Username** field, type the proxy username.
4. In the **Proxy Password** field, type the proxy password.
5. In the **Proxy Host** field, type the URL of the proxy.
6. In the **Proxy Port** field, type the port number for the proxy.
7. Click **Test Connection**.
8. If your test is successful, click **Apply**.
9. Click **OK**.

Chapter 4: Using the Hub Eclipse Plugin

Rather than writing every function from scratch, many projects re-use in-house components. Other projects take advantage of the extensive network of developers around the world creating open source components. The challenge in either case is finding the right component for your application. After you have found a component, it is also important to know if you can legally use it, and if you are complying with corporate policy.

You can use the Hub Eclipse plugin to perform the following tasks:

- Search within Eclipse for open source software components in the Black Duck KnowledgeBase.
- Search within Eclipse for approved components in your Hub Catalog.
- View details in Eclipse about a component from either the Hub catalog or the Black Duck KnowledgeBase, including metadata about open source projects from OpenHub.net.
- Launch Hub from a KnowledgeBase component or *Catalog Component*-view page in Eclipse.

For more information about searching for components and making component requests, refer to the Hub Help or the *Requesting Component Use in Hub* guide.

4.1 Configuring the Eclipse Component Inspector

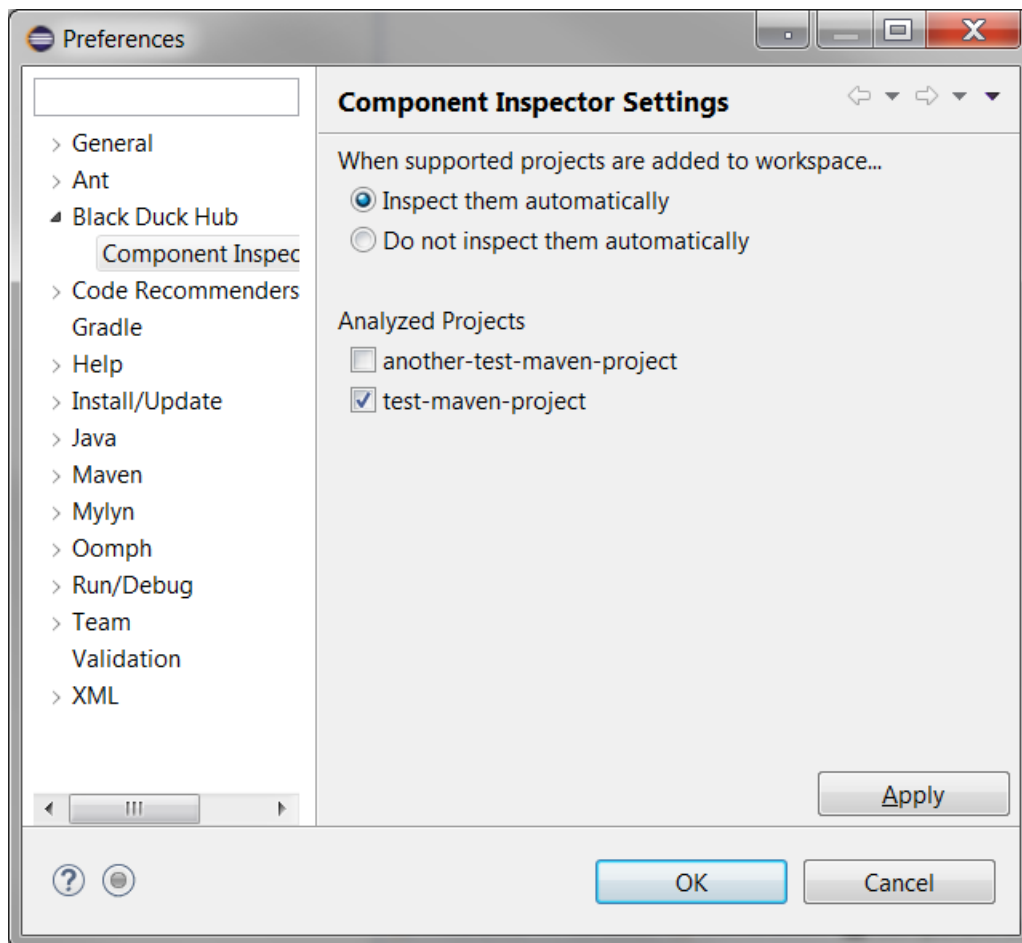
You can configure the Hub Eclipse plugin to automatically inspect supported projects. This enables the plugin to automatically inspect components when you create new supported projects in your workspace. Projects in your workspace are listed in the Component Inspector.

When you have projects in your workspace, projects are listed with check boxes. If the check boxes are not selected, they are not analyzed. If the check boxes are selected, these projects are analyzed.

Note: This option only supports Maven Java projects and Gradle Java projects.

* To configure the Eclipse plugin Component Inspector:

1. In Eclipse, from the **Window** menu, select **Preferences**.
2. In the **Preferences** dialog box, click **Black Duck Hub > Component Inspector**.



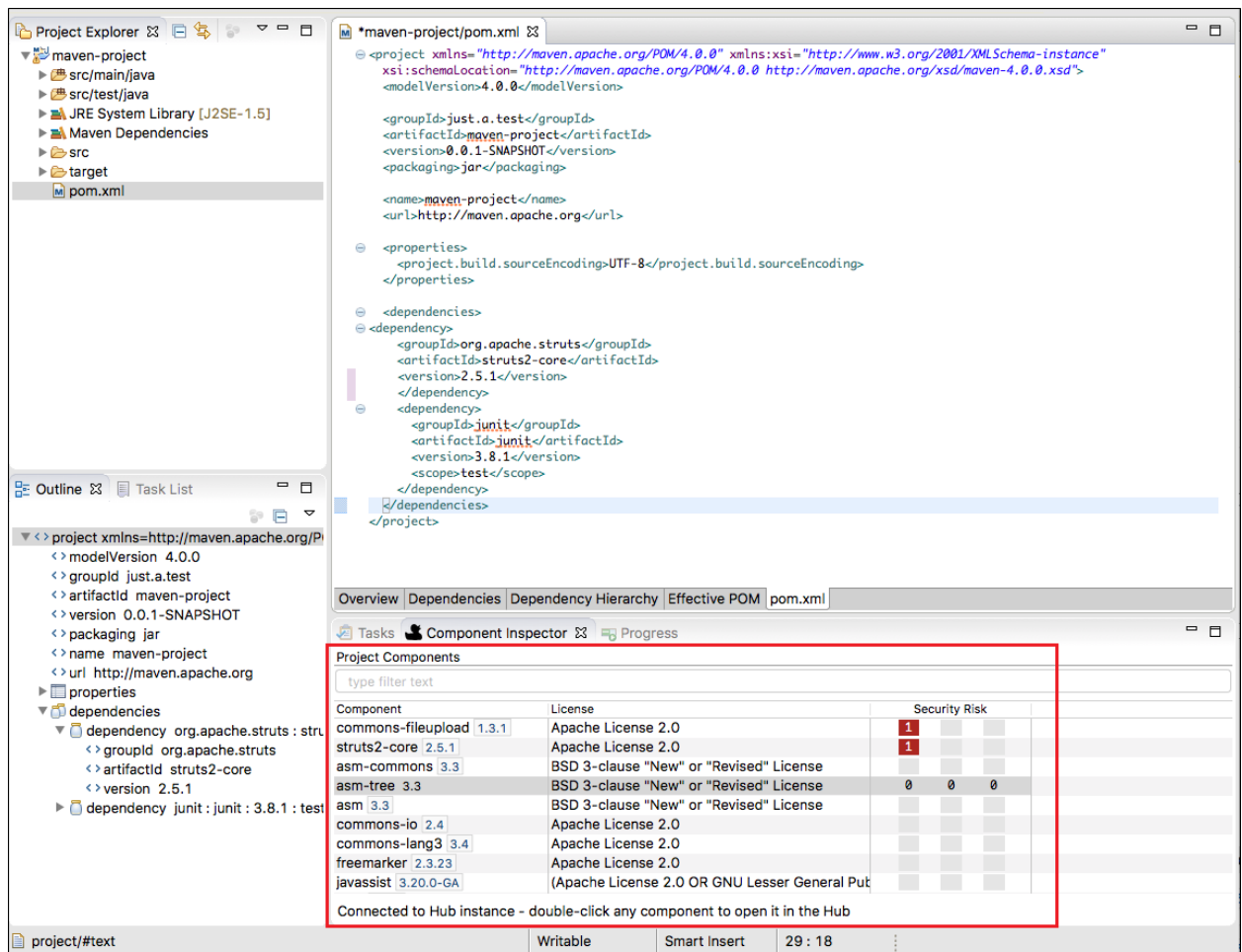
3. In **Component Inspector Settings**, select one of the following options:
 - a. **Inspect them automatically:** (Default) This option automatically inspects your supported projects.
 - b. **Do not inspect them automatically:** This option does not automatically inspect your supported projects.
4. To specify which projects are analyzed, select the project under **Analyzed Projects**. Projects with their check box selected are automatically analyzed.
5. Click **Apply**.
6. Click **OK**.

4.2 Using the Hub Eclipse Plugin Component Inspector

If you have set the **Component Inspector** to automatic, all new projects are automatically inspected.

✳ When using the Component Inspector:

1. When a project is being inspected, an **Inspecting project** status displays at the bottom of the runtime window.
2. When the inspection is complete, it displays the component version, license, and vulnerabilities in the **Project Components** window. It also displays the security risks.



3. You can double-click the component to open the corresponding component version page in the Black Duck Hub. If you are not logged in to the Hub, it prompts you to log in. In the Hub, you can find additional details and information for the selected component.

Note: The Hub Eclipse plugin monitors supported projects that you have marked for analysis in real-time within your Eclipse instance. Changes to your Maven `pom.xml` or Gradle `build.gradle` files are reflected in real-time.

4.3 Using the Context Menus

You can use the context menus to manually select a project for inspection by the Hub Eclipse plugin.

✱ **To manually select a project:**

1. Navigate to **Package Explorer** or **Project Explorer** > **Black Duck**. The context menu displays.
2. In the context menu, select **Inspect selected project**. This option only displays if you have selected a supported project. Note that this only happens if you manually inspect, open the component inspector, or hub settings do not cause the plugin to be automatically inspected.
3. Select **Open Component Inspector**. This opens the **Component Inspector** view if it is not open, or brings it to the foreground if it is open but in the background.
4. Click **Hub Settings**. This navigates to the plugin settings and configuration page.
5. If a project is not activated or analyzed, and if the project is not selected in the **Component Inspector Settings**, it becomes checked (selected) when you manually select it.



Chapter 5: Hub Eclipse Plugin Release Notes

Release 1.0.0

- First release of Hub Eclipse plugin.

Chapter 6: Black Duck Support

If you have questions or find issues, contact Black Duck Software.

For the latest in web-based support, access the Black Duck Software Customer Support Web Site:
<https://www.blackducksoftware.com/support/contact-support>

To access a range of informational resources, services and support, as well as access to Black Duck experts, visit the Black Duck Customer Success portal at:
<https://www2.blackducksoftware.com/support/customer-success>

You can also contact Black Duck Support in the following ways:

- **Email:** support@blackducksoftware.com
- **Phone:** +1 781.891.5100, ext. 5
- **Fax:** +1 781.891.5145
- **Standard working hours:** Monday through Friday 8:00 AM to 8:00 PM EST

Note: Customers on the **Enhanced Customer Support Plan** are able to contact customer support 24 hours a day, 7 days a week to obtain Tier 1 support.

If you are reporting an issue, please include the following information to help us investigate your issue:

- Name and version of the plugin or integration product.
- Black Duck product name and version number.
- Third-party integrated product and version; for example:
 - Visual Studio
 - MSBuild
 - TFS
 - Artifactory
 - Eclipse
 - Jenkins
 - Maven, and others.
- Java version.
- Black Duck KnowledgeBase version, where applicable.
- Operating system and version.
- Source control management system and version.
- If possible, the log files, configuration files, MSBuild project files, or Project Object Model (POM) XML files, as applicable.

6.1 Training

Black Duck training courses are available for purchase. Learn more at <https://www.blackducksoftware.com/services/training>.

View the full catalog of our online offerings: <https://www.blackducksoftware.com/academy-catalog>.

When you are ready to learn, you can log in or sign up for an account: <https://www.blackducksoftware.com/academy>.

6.2 Services

If you would like someone to perform Black Duck Software tasks for you, please contact the Black Duck Services group. They offer a full range of services, from planning, to implementation, to analysis. They also offer a variety of training options on all Black Duck products. Refer to <https://www.blackducksoftware.com/services/> for more information.