

WhiteSource Essentials

User Guide

Table of Contents

Overview	6
Before You Begin	6
Subscribing and Creating an Account to WhiteSource Essentials	6
Scanning Your Code via Azure DevOps Pipeline	6
Installing the Extension	7
Activating the Extension.....	7
Adding a WhiteSource Build Task to Your Pipeline.....	8
Adding a Build Task to a YAML Pipeline	8
Adding a Build Task to a Classic Pipeline	8
Logging In to WhiteSource Essentials	9
Viewing Your Organization's Statistics	9
Opening the Project Pane	10
Viewing the Data Screens.....	10
Overview	10
Filtering for Specific Data.....	12
Arranging Data within the Table	13
Exporting Data	13
Viewing Specific Library Information.....	13
Performing Additional Actions in the Data Screens.....	13
The Inventory Screen.....	14
Overview.....	14
Accessing the Inventory Screen	14
Marking Libraries as Proprietary.....	15
Additional Actions	16
The Vulnerabilities Screen	16
Overview.....	16
Accessing the Vulnerabilities Screen	16
Additional Actions	17

The Licenses Screen	17
Overview	17
Accessing the Licenses Screen	18
Assigning a License to a Library	19
Overriding a Library's License with a New License	19
Adding a Notice For a Library	20
Modifying a Library's Notice	20
Assigning a Copyright to a Library	20
Overriding a Library's Copyright	21
Additional Actions	21
Viewing the Library Details Screen	22
Overview	22
Accessing the Library Details Screen	22
Library Info	23
Vulnerabilities	23
Viewing Additional Vulnerable Libraries	24
Fixing the Selected Vulnerable Library	24
Impact	24
Versions	24
Licenses	24
Assigning a License to a Library	25
De-activating a License	26
Activating a License	26
Deleting a Manually-Assigned License from a Library	26
Reverting Manual Changes on a License	27
Assigning a Copyright to a Library	27
Reverting Manual Changes on a Copyright	27
Creating a Library Notice	27
Modifying a Library's Notice	28

Sending an Email to the Assigner	28
Viewing the License Details Screen.....	28
Overview	28
Accessing the License Details Screen.....	28
Viewing Relevant Risk Analysis Information.....	29
Generating Reports	29
Overview	30
Inventory Report	30
Vulnerabilities Report.....	30
Licenses Report	30
Managing Settings	30
User Management	30
User Profile	30
Scanning and Setup.....	30
Integration	30
Appendix A: Risk Score Analysis	30
License Risk Scores	30
Parameter Definitions	32

Copyright and Legal Information

The software described in this document is a product owned or licensed by WhiteSource Ltd. Such information is supplied solely for assisting authorized personnel to evaluate or use White Source products in compliance with the End User License Agreement:

<https://www.whitesourcesoftware.com/terms-of-service/>

No part of this document may be used for any other purpose, disclosed to any person or entity or reproduced by any means without the prior written permission of WhiteSource.

The text, graphics and examples included in this document are for illustration and reference only. The specifications on which they are based are subject to change without notice. Corporate, individual names, and data used in examples are fictitious unless otherwise noted. If you find any problems in the documentation, please report them to WhiteSource in writing. WhiteSource does not warrant that this document is error-free.

Information in this document is subject to change without notice. WhiteSource reserves the right to revise or withdraw this document or any part thereof, including, without limitation, the elimination or modification of any product functionality, at any time.

The software may be used or copied only in accordance with the terms of its license and it is protected by one or more patents granted in the United States. Reverse engineering of the software is prohibited

© Copyright 2020 WhiteSource Ltd. All rights reserved.

Contact us: support@whitesourcesoftware.com

Table of Revisions:

Date	Revision	Author

Who this Guide is For:

This document is intended for the following audiences:

- Users and administrators using WhiteSource Essentials

Overview

This document describes how to use WhiteSource Essentials.

WhiteSource Essentials is a web-based application that enables you to manage your open source libraries for security/license purposes, and provides the main functionality of the full WhiteSource application with a simple interface.

WhiteSource Essentials provides the following benefits:

- ~~Powerful scanning capabilities~~
- ~~“Self-service” purchase and registration~~
- ~~Easy reporting functionality~~
- ~~User-friendly interface and procedures that promotes ease-of-use, with little to no training required~~
- ~~Remediation advisory of open source library vulnerabilities~~
- ~~Open source license risk management~~

Before You Begin

Ensure that you have thoroughly read and followed all guidelines presented in the prerequisites guide, including plugin installations.

Subscribing and Creating an Account to WhiteSource Essentials

To subscribe and create an account, do as follows:

1. Click [here](#) to access WhiteSource Essentials at the Microsoft Azure Marketplace. The **WhiteSource Essentials** page is displayed.
2. Click **Get it Now**. The **Subscribe** page is displayed.
3. Enter **TBD**

((at the end probably via email, get link for login)) TBD

Scanning Your Code via Azure DevOps Pipeline

Scanning your organization’s inventory results in a true picture of your organization’s open source license standards and vulnerabilities risk.

Scanning is performed by the WhiteSource DevOps Azure Extension.

The scanning's schedule is determined by the pipeline schedule set by the customer's DevOps.

To install and setup the extension, perform the procedures in this section:

- [Installing the Extension](#)
- [Activating the Extension](#)
- [Adding a WhiteSource Build Task to Your Pipeline](#)
 - [Adding a Build Task to a YAML Pipeline](#)
 - [Adding a Build Task to a Classic Pipeline](#)

Installing the Extension

To access the extension, [<link to plugin in marketplace>](#)

NOTE: If you are using a proxy server or a self-hosted build agent, make sure to open communication to the domain "whitesourcesoftware.com" and its subdomains. In case your proxy configuration requires authentication, then make sure your Azure DevOps Server build agent is properly configured. For further information, see [here](#).

Activating the Extension

To activate the extension, do as follows:

1. Inside your Azure DevOps organization, open any of your projects. If you do not have any projects, create one before proceeding.
2. In the project page, from the sidebar, click **Pipelines**. The Pipelines page is displayed.
3. From the sidebar, click **WhiteSource**. An activation form enabling you to connect to your WhiteSource account is displayed.
4. Enter the following details:
 - First name
 - Last name
 - Work email
 - Company name
 - Activation key - Go to the WhiteSource Essentials application, and from **Settings > Integrate > Azure DevOps Integration**, click the **Generate Activation Key** link, and then copy the activation key. **NOTE:** If you are not a WhiteSource administrator, get the activation key from the administrator.
5. Click **Connect Account**. Your extension is now connected to your WhiteSource account.

Adding a WhiteSource Build Task to Your Pipeline

To add a WhiteSource build task to your existing pipeline, do as follows:

1. Go to the relevant project for which you want WhiteSource to run.
2. In the project page, from the sidebar, click **Pipelines**. The **Pipelines** page is displayed.
3. Click the relevant pipeline. The specific pipeline page is displayed.
4. Click **Edit**. Do one of the following procedures:
 - [Adding a Build Task to a YAML Pipeline](#)
 - [Adding a Build Task to a Classic Pipeline](#)

This activates the WhiteSource integration on your build pipeline.

NOTE: Adding a pre-step build task is not necessary in order for WhiteSource to successfully scan the build repository.

Adding a Build Task to a YAML Pipeline

In the pipeline edit page, from the right side, click Show assistant. The Tasks sidebar is displayed.

1. In the search bar, enter **whitesource**. The WhiteSource task is displayed.
2. Click the WhiteSource task.
3. From the bottom right corner, click **Add**. The WhiteSource task is added to the pipeline.

NOTE: The WhiteSource task can be moved to other locations within the steps section, depending on your preferences.

Adding a Build Task to a Classic Pipeline

1. To add a task to the Agent Job, click the plus (“+”) sign next to the agent job section. The **Add Tasks** section is displayed.
2. In the search bar, enter **whitesource**. The WhiteSource task is displayed.
3. Click the **WhiteSource** tab, and then click **Add**. The WhiteSource task is added to the pipeline.

NOTE: The WhiteSource task can be moved to other locations within the steps section, depending on your preferences.

Once the build and scan have completed successfully, you can log in to your WhiteSource Essentials application.

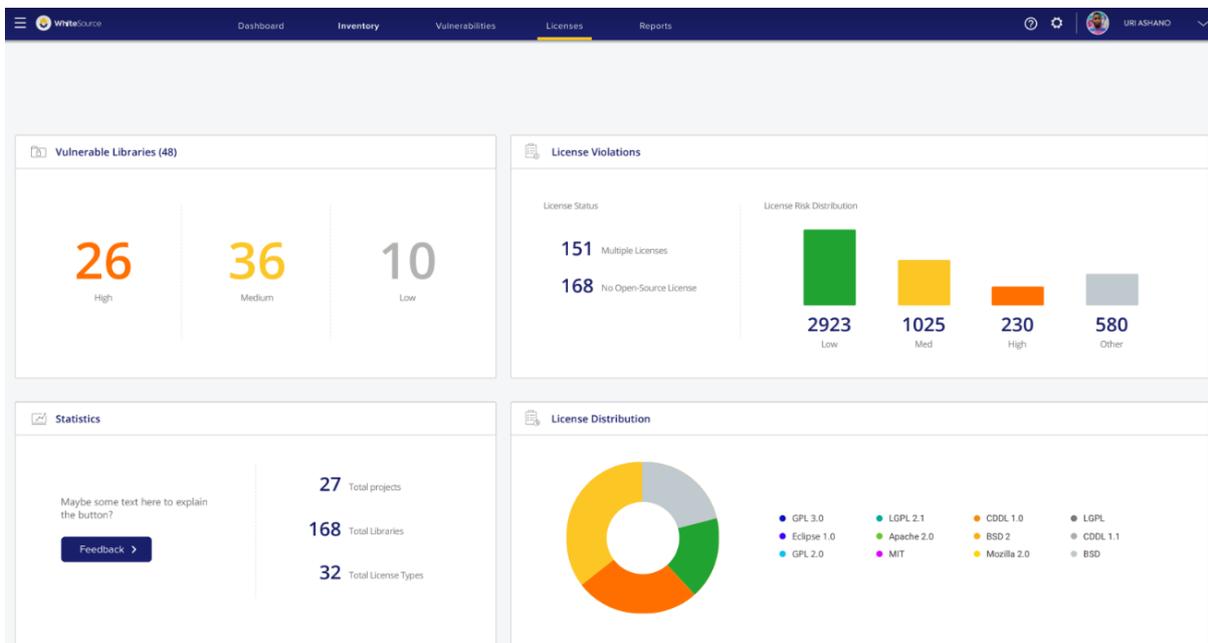
Logging In to WhiteSource Essentials

To login to your WhiteSource Essentials application, do as follows:

1. Ensure that you were “invited” by your IT administrator to create your password.
2. Create a password **TBD**
3. Ensure that you receive a link with which to log in.
4. Click to enter the WhiteSource Essentials application. Note that the default entry screen is the Dashboard screen.

Viewing Your Organization’s Statistics

The **Dashboard** screen enables you to view a graphical depiction of your organization’s statistics regarding vulnerabilities, and licenses.



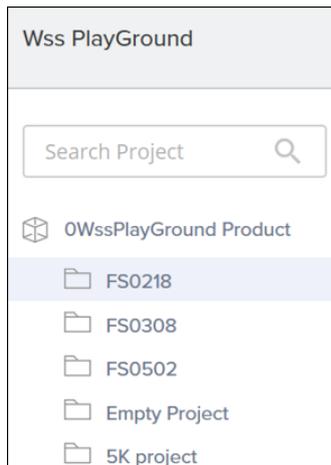
Component	Description
Vulnerable Libraries	Organization-level statistics on vulnerable libraries according to severity (High, Medium, Low).
Statistics	Organization-level statistics on projects and license types.
License Violations	Organization-level statistics on license issues and risk, for example, total number of libraries with licenses displayed according to license risk score.
License Distribution	Organization-level statistics on license distribution.

Opening the Project Pane

The Project Pane enables you to view a list of your projects, and to navigate between them.

To open the Project Pane, do as follows:

1. From the toolbar, click the project icon . The Project Pane is displayed. Note the organization's name is displayed on top.



2. Do any of the following:
 - To search for a project, enter a project's name in the search box, and it will be displayed instantaneously in the main screen.
 - To navigate between projects, click the project from the project list, and it will be displayed instantaneously in the main screen.

Viewing the Data Screens

Overview

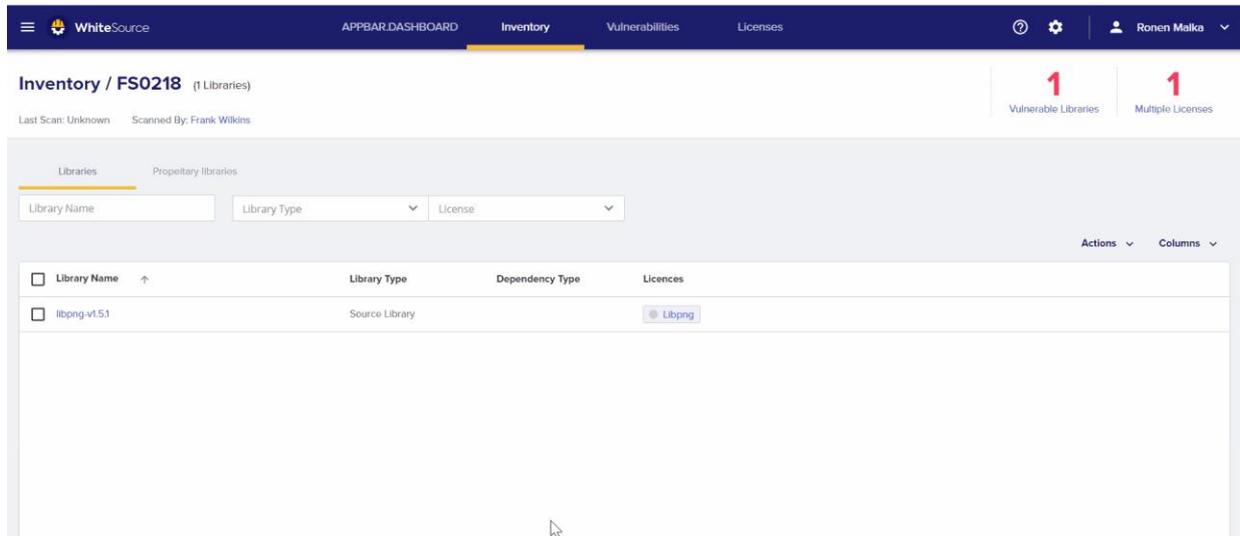
The Data screens are the screens that contain the main work areas that enable you to manage inventory, vulnerabilities, and licenses in your open source libraries.

The Data screens are the following:

- The **Inventory** screen
- The **Vulnerability** screen
- The **Licenses** screen

All Data screens have a related interface and functionality, as described in this section.

NOTE: The sample screen used here displays the **Inventory** screen. The following sections in this guide describing the Data screens will focus only on actions specific to those screens.



Component	Description
Toolbar Area	
	Open/close the Projects pane to navigate between projects
Dashboard Tab	View a graphical depiction of your organization's statistics, vulnerabilities, and licenses.
Inventory Tab	View which libraries are found in a specific project.
Vulnerabilities Tab	View a list of all libraries containing vulnerabilities in a specific project.
Licenses Tab	View a list of all libraries in a specific project with their license, copyright and notice information.
	The Settings wheel opens the Management pane. See Managing Settings . FOR BETA VERSION
 Ronen Malka ▾	The User management area enables you to log in/out, and invite users.
Vulnerable Libraries	A quick glance at project level vulnerable libraries' statistics. Click the number to access the Vulnerability screen .
Multiple Licenses	A quick glance at project level libraries' license issues. Click the number to access the Licenses screen .

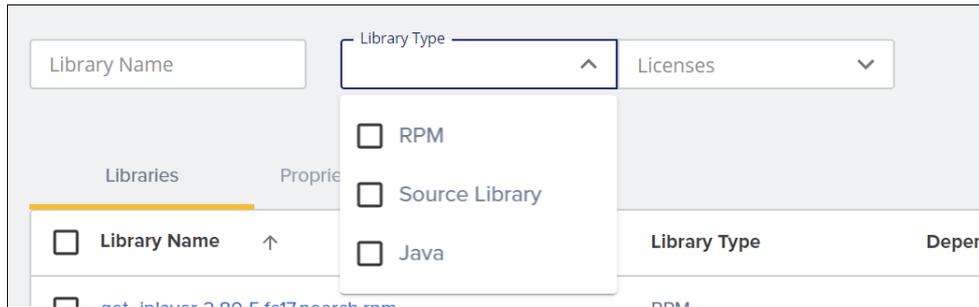
Inventory FS0218/1 Library	<Name of current screen> + <Project name >
<- Library/ Libraries	Total number of libraries found in the project.
Last Scan	The project's most recent scan.
Scanned By	The user who created this project's most recent scan. Hover to view informative details for this user.
Filtering and Search Options:	
Libraries/Licenses	Searching is available on the library's name. Filtering is predefined per screen.
Actions:	
Actions	Actions that can be performed on all or some of the entries in the table
Table Columns:	
Library Name, Library Type, Licenses, etc.	The information for which you can filter and display, grouped by subject. The columns differ per screen.
Navigation:	
0 Libraries selected out of 0	Number of selected libraries in the table out of total number of libraries in the table
Rows per page: 12 ▼	Number of rows per table page. For additional preset selections, click the "down" arrow and select the desired number.
0-0 of 0	Position of the page relative to the entire libraries list.
< >	Navigate between table pages.

Filtering for Specific Data

To filter for specific data within the table, in the filter area, do as follows:

NOTE: The filtering mechanism is "reactive"; that is, as you enter or select your filtering values, the data is displayed instantaneously in the table with no need to click additional "go" buttons.

1. In the first filter on the left (for example, **Library Name**), enter the name of the library or relevant component to which you are searching:



2. Continue with the remaining filters as needed.

Arranging Data within the Table

Once you have filtered for the specific data to which you are searching, you can modify the way the data is arranged. In the table, do any of the following:

- To re-order the table data in alphanumeric order, click the arrow next to the main column header (on the left). Click again to sort the table in reverse alphanumeric order.
- To select or remove columns to include in the table, above the table on the right, click **Columns**.
- To expand the number of rows displayed on one page (if your filtered selection generated such a number), at the bottom, click the arrow next to **Rows per page**, and select your desired number.

Exporting Data

For **BETA VERSION**

Viewing Specific Library Information

To view specific library information, you can access the Library Details screen straight from the Data screens by clicking on the library's name in the table.

See [Viewing the Library Details Screen](#).

Performing Additional Actions in the Data Screens

To perform additional, (screen-specific) actions on the table data, do as follows:

1. Select one or more rows (checkbox on the left).
2. In the area above the table, on the right, click **Actions**.
3. Select an action to perform, for example, mark data as proprietary, etc. These actions are detailed in the relevant sections.

The Inventory Screen

Overview

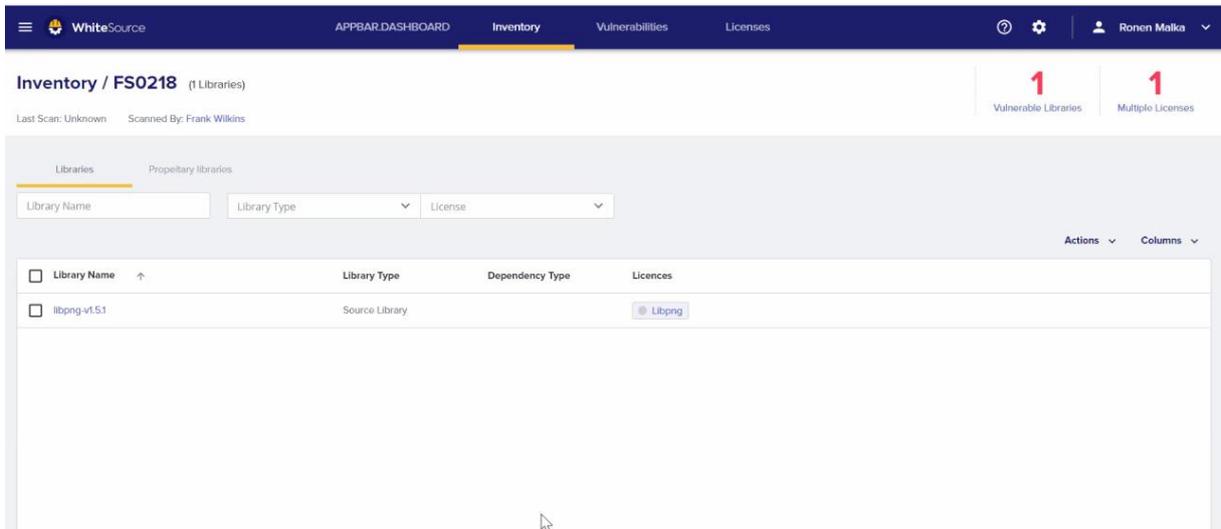
The **Inventory** screen enables you to view and analyze all the libraries in your organization's [inventory](#).

Additionally, you can do the following:

- Mark a library as propriety (non-open source code)
- Export table data to .CSV **For BETA VERSION**
- Search for (and filter for) a specific library/libraries
- Drill down to view a specific library in the **Library Details** page

Accessing the Inventory Screen

- To access the **Inventory** screen, from the menu bar, select **Inventory**. The **Inventory** screen is displayed.



Options specific to the **Inventory** screen are as follows:

Component	Description
Filtering and Selection Options:	
Libraries	<p>(Toggle with Proprietary Libraries) Open source libraries that WhiteSource has identified in your project. Displays the filtering/selection options directly below it.</p> <ul style="list-style-type: none"> ▪ Library Name - The name of the library ▪ Library Type - The library's type (Java, RPM, etc.) ▪ License - The relevant license (Apache, Eclipse, etc.)

Proprietary Libraries	(Toggle with Libraries) Proprietary libraries that have been marked as non-open source code using the Mark as Proprietary action. Displays the filtering/selection options directly below it. <ul style="list-style-type: none"> ▪ Library Name - The name of the library ▪ Library Type - The library's type (Java, RPM, etc.) ▪ Comment - A free-text comment ▪ Marked by - Indicates which user marked this library as proprietary
Actions:	
Actions	Mark as Proprietary - Enables you to mark library as proprietary (non-open source code). As a result, the library will be excluded from further vulnerability licensing management and reports. 
Export	Export to .CSV FOR BETA VERSION
Columns	Enables you to manage (add/remove) the table's columns, and their relevant data (except library name).
Table Columns:	
Library Name	The name of the library
Library Type	The library's type (Java, RPM, etc.)
Dependency Type	If directly called by the code (non-transitive) or transitive (used by another library). FOR BETA VERSION
Licenses	The relevant license (Apache, Eclipse, etc.). A library can have more than one license.

Marking Libraries as Proprietary

A library that is proprietary indicates that it is non-open source code. Therefore, the library will no longer be displayed in any list, chart, table or data repository of open-source data.

To mark a library as proprietary, do as follows:

1. Above the table, select **Libraries**.
2. In the table, select the library or libraries that you want to mark as proprietary (checkboxes on the left).
3. Select **Actions > Mark as Proprietary**,  and click **OK**. The library is automatically removed from the **Libraries** table, and will move to the **Proprietary Libraries** table (you can toggle between the two).

Additional Actions

- In the table, click the library's name to access the **Library Details** screen, open to the **Library Info** tab. See [Viewing the Library Details Screen](#).
- In the table, click the license's name (for example, Academic 2.0) to access the **License Details** screen. See [Viewing the License Details Screen](#).
- Arrange or re-arrange the data within the table. See [Arranging Data within the Table](#).

The Vulnerabilities Screen

Overview

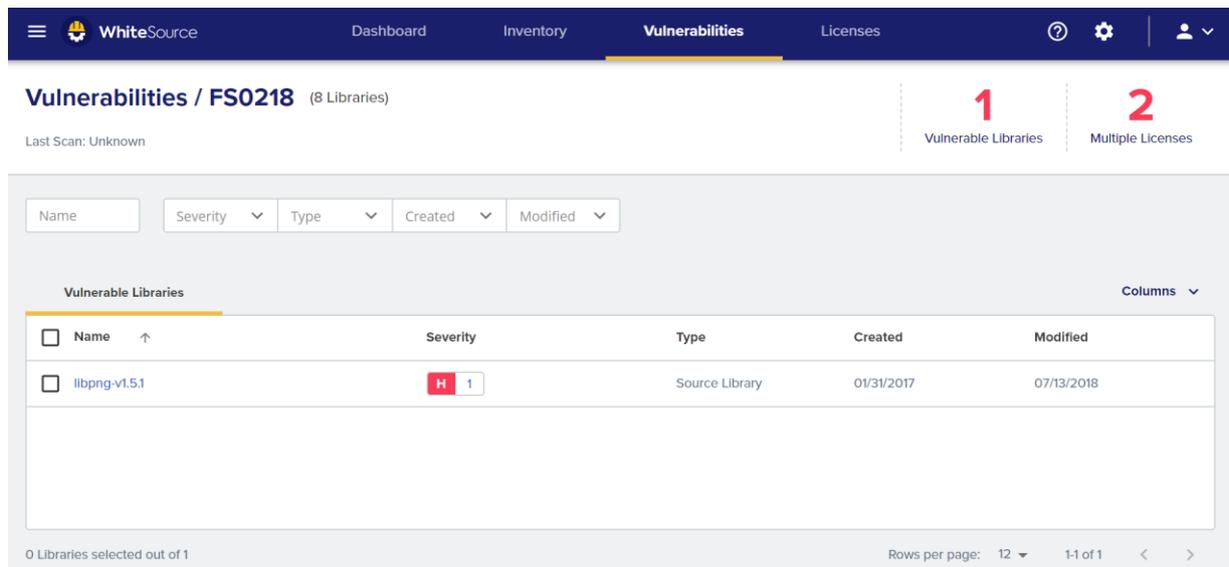
The **Vulnerabilities** screen enables you to view a list of all libraries containing vulnerabilities.

Additionally, you can do the following:

- Search for (and filter for) specific vulnerable libraries
- Drill down to view information regarding a specific vulnerable library
- View possible vulnerability fixes

Accessing the Vulnerabilities Screen

- To access the **Vulnerabilities** screen, from the menu bar, select **Vulnerabilities**. The **Vulnerabilities** screen is displayed.



Vulnerabilities / FS0218 (8 Libraries)

Last Scan: Unknown

1 Vulnerable Libraries | **2** Multiple Licenses

Name	Severity	Type	Created	Modified
<input type="checkbox"/> libpng-v1.5.1	H 1	Source Library	01/31/2017	07/13/2018

0 Libraries selected out of 1 | Rows per page: 12 | 1-1 of 1

Component	Description
Filtering and Selection Options:	

Vulnerable Libraries	<p>Open source libraries that WhiteSource has identified in your project. Displays the filtering/selection options directly below it.</p> <ul style="list-style-type: none"> ▪ Library Name - The name of the library. ▪ Severity - Number of High, Medium and Low CVEs ▪ Library Type - The library's type (Java, RPM, etc.) ▪ Created - Date of the first CVE that was identified for the library ▪ Last Modified - Whenever a CVE is added to the library, the modified date is updated
Table Columns:	
Library Name	<p>The name of the library.</p> <p>Clicking will open Library Details screen with the Info tab in focus. See Viewing the Library Details Screen.</p>
Severity	<p>Number of High, Medium & Low CVEs/Number of libraries where vulnerabilities are found.</p> <p>Clicking will open the Library Details screen with the Vulnerabilities tab in focus. See Viewing the Library Details Screen.</p>
Library Type	The library's type (Java, RPM, etc.)
Created	Date of the first CVE that was identified for the library
Last Modified	Whenever a CVE is added to the library, the modified date is updated.

Additional Actions

- In the table, click the library's name to access the **Library Details** screen, open to the **Library Info** tab. See [Viewing the Library Details Screen](#).
- In the table, click the vulnerability's severity (for example, ) to access the **Library Details** screen, open to the **Vulnerabilities** tab. See [Viewing the Library Details Screen](#).
- Arrange or re-arrange the data within the table. See [Arranging Data within the Table](#).

The Licenses Screen

Overview

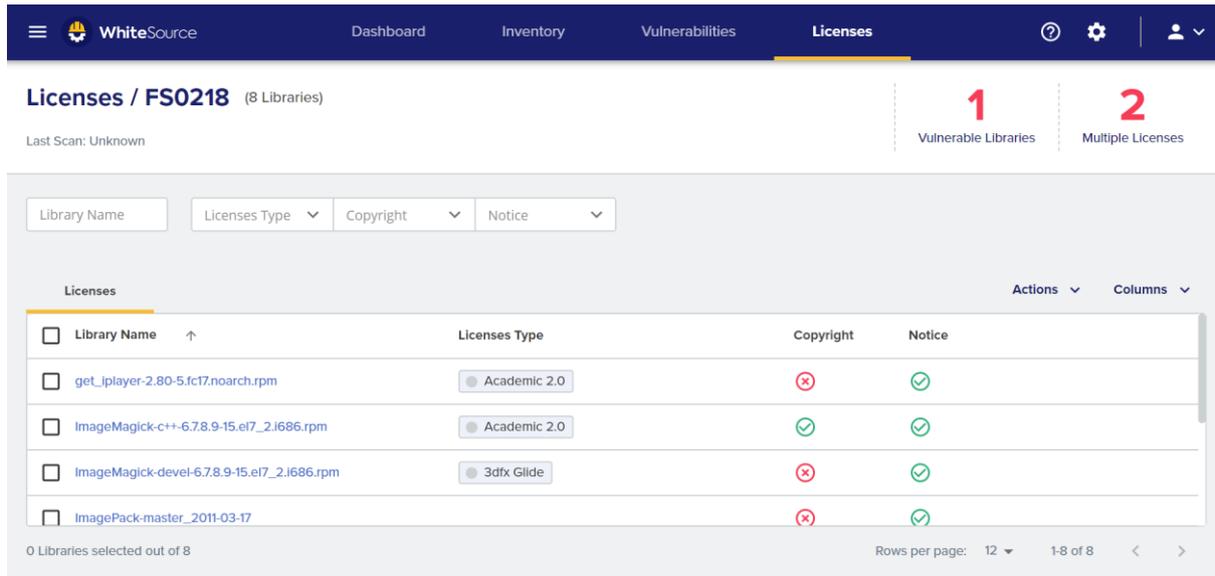
The **Licenses** screen enables you to view the list of all your project's open source libraries with their license, copyright and notice information.

Additionally, you can do the following:

- Assign a license to a library
- Assign a copyright to a library
- Assign a notice (informative free text comments) to a library

Accessing the Licenses Screen

- To access the **Licenses** screen, from the menu bar, select **Licenses**. The **Licenses** screen is displayed.



Component	Description
Filtering and Selection Options:	
Licenses	<p>Open source libraries that WhiteSource has identified in your project. Displays the filtering/selection options directly below it.</p> <ul style="list-style-type: none"> ▪ Library Name - The name of the library ▪ License Type - The library's type (Java, RPM, etc.) ▪ Copyright - Indicates whether a copyright is assigned to the library ▪ Notice - Indicates whether a notice (descriptive free text) is assigned to the library
Actions:	
Actions	<ul style="list-style-type: none"> ▪ Assign License - Assign a license to a library ▪ Assign Notice - Assign a notice (descriptive free text describing the license's usage requirements) to a library. ▪ Assign Copyright - Assign a copyright to a library
Table Columns:	
Library Name	The name of the library
License Type	The library's type (Java, RPM, etc.)

Copyright	Indicates if a copyright has been assigned to the library, and enables you to override (replace) the copyright.
Notice	Indicates if a notice (descriptive text) has been assigned to the library, and enables you to delete/modify the notice.
	Indicates a copyright/notice is assigned to the library.
	Indicates that this library does not have any copyrights/notices assigned.

Assigning a License to a Library

This procedure describes how to manually assign a license to a library. You can assign more than one license to a library, but only one license [can](#) be active.

NOTE: You can add the same license to multiple libraries by using the multiple selection functionality.

To add a license to a library, do as follows:

1. In the table, select the library or libraries (checkboxes on the left) to which you want to assign a license.
2. Above the table, select **Actions > Assign License**. The **Assign License** dialog box is displayed (alternatively, highlight the library's row, and click the **Assign License** icon ).
3. Do as follows:
 - In **License**, select the license that you want to assign to this library.
 - In **Liability Reference**, enter links, website names, documentation, etc. from where this license was taken
 - In **Additional Comments**, enter any important free-text comments.
4. Click **OK**.

Overriding a Library's License with a New License

To override a library's license with a new license, do as follows:

NOTE: You can delete (remove) a license from a library only through the **License** screen.. See [Deleting a License from a Library](#).

1. In the table, select the library (checkbox) whose license you want to override with a new license.
2. Above the table, select **Actions > Assign License**. The **Assign License** dialog box is displayed (alternatively, highlight the row, and click the **Assign License** icon ).
3. In **License**, select the new license.
4. Modify any other settings as needed.
5. Click **OK**.

Adding a Notice For a Library

Notices are free-text descriptions of a library's license requirements. You can add only one notice per library.

NOTE: You can add the same notice to multiple libraries by using the multiple selection functionality.

To create a notice for a library, do as follows:

1. In the table, select the library or libraries (checkboxes on the left) to which you want to create a notice.
2. Above the table, select **Actions > Assign Notice**. The **Assign Notice** dialog box is displayed (alternatively, highlight the library's row, and click the **Assign Notice** icon ).
3. Enter the notice's text.
4. Click **OK**. The notice's column is now updated with .

Modifying a Library's Notice

To modify an existing notice, do as follows:

1. In the table, select the library (checkbox on the left) whose notice you want to modify.
2. Above the table, select **Actions > Assign Notice**. The **Assign Notice** dialog box is displayed (alternatively, highlight the library's row, and click the **Assign Notice** icon ).
3. Modify the notice's text.
4. Click **OK**.

Assigning a Copyright to a Library

To assign a copyright to a library, do as follows:

NOTE: You can add the same copyright to multiple libraries by using the multiple selection functionality.

1. Select the library or libraries (checkboxes on the left) to which you want to add a copyright.
2. Above the table, select **Assign Copyright**. The **Assign Copyright** dialog box is displayed (alternatively, highlight the library's row, and click the **Assign Copyright** icon ,).
3. Do as follows:
 - In **Copyright Period**, enter the period for which this copyright will be valid for the license.
 - In **Author**, enter the name of the library's author.
 - In **Organization**, enter the organization with the rights to the library.
 - In **Additional Comments**, enter any import free-text comments.
4. Click **OK**. The license's row is displayed in the table.

Overriding a Library's Copyright

After manually assigning a copyright to a library, you can modify any settings for the copyright, or override it with a new copyright.

To override a library's copyright, do as follows:

1. Select the library (checkbox on the left) whose copyright you want to override.
2. Above the table, select **Assign Copyright**. The **Assign Copyright** dialog box is displayed.
3. Modify any existing copyright settings or override with new copyright information.
4. Click **OK**.

Additional Actions

- In the table, click the library's name to access the **Library Details** screen, open to the **Library Info** tab. See [Viewing the Library Details Screen](#).
- In the table, click the license's name (for example, ) to access the **License Details** screen. See [Viewing the License Details Screen](#).
- Arrange or re-arrange the data within the table. See [Arranging Data within the Table](#).

Viewing the Library Details Screen

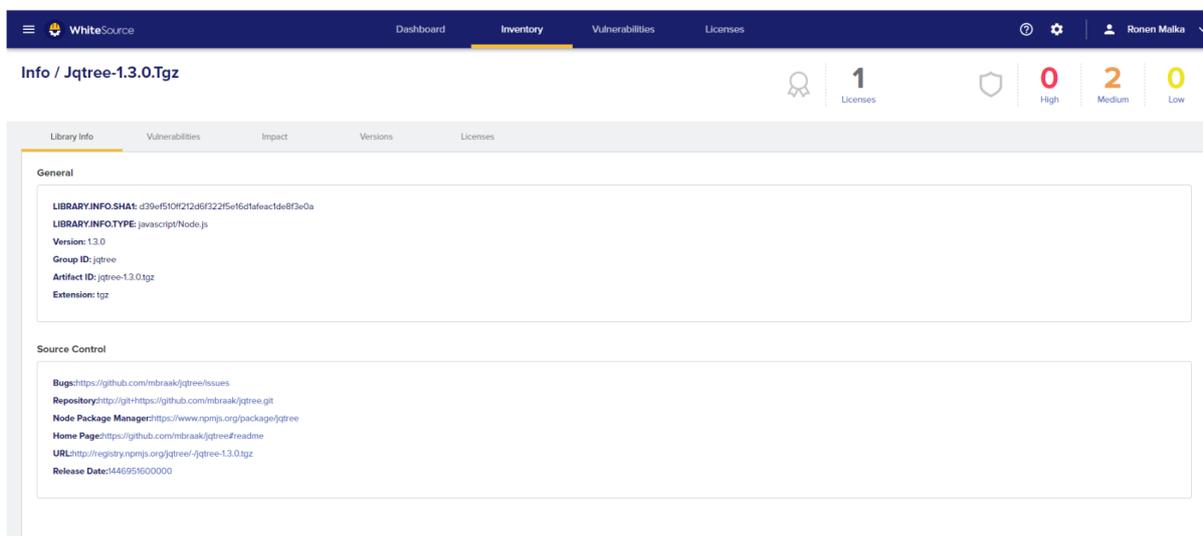
Overview

The Library Details screen enables you to view basic information regarding specific libraries, including description, library vitals and source control information.

Accessing the Library Details Screen

To access the Library Details screen, do as follows:

- From any table where the **Library Name** column is displayed, click a library name's row. The **Library Details** screen is displayed, open to the **Library Info** tab.



The following provides an overview of the tabs:

Component	Description
Library Info	The library's general information (differs per language).
Vulnerabilities	A list of all vulnerabilities identified in this library, and provides information and remediation information.
Impact	Occurrences of this library in all projects and if the library is transitive, displays a tree view of the direct dependencies and the dependency path to the library. 
Versions	Vulnerabilities per version + known versions of this library 
Licenses	All the identified licenses, copyrights, and notices for this library.

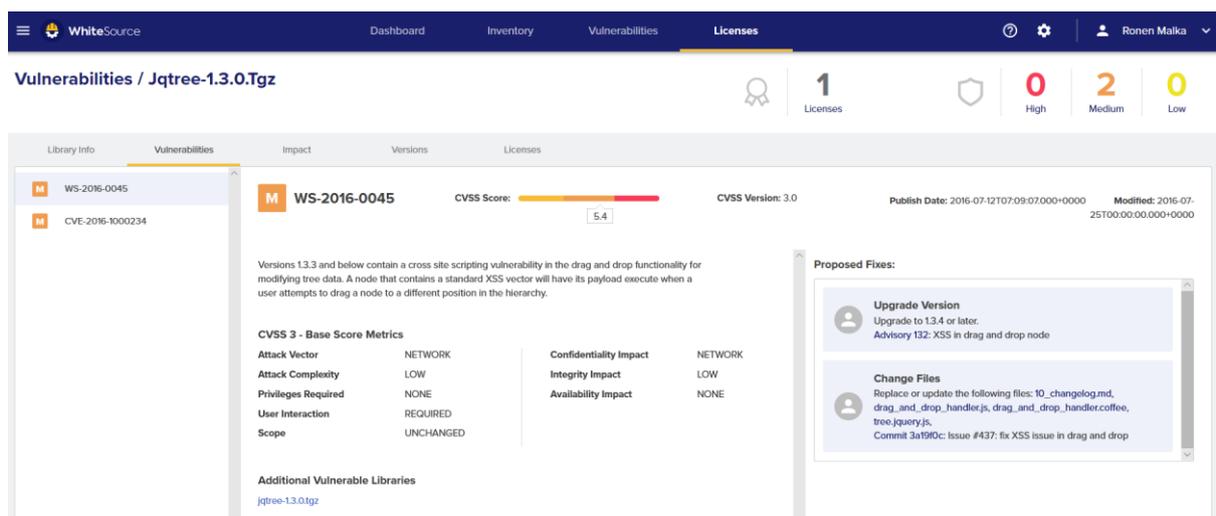
Library Info

The **Library Info** tab (informative only) displays the library's general information (differs per language), including:

- Description
- Library name
- Version
- Extension
- Links to the library's repository
- Group ID
- Artifact ID
- Classifier
- Architecture
- Language version
- Dependency URL
- Home page
- Repository URL
- Package Manager repository

Vulnerabilities

The **Vulnerability** tab displays list of all vulnerabilities identified in this library, and provides general and remediation information.



Component	Description
Vulnerabilities List	(left pane) Lists the vulnerabilities found in this library.

Vulnerabilities Details	(middle pane) General information for the selected vulnerability. Includes CVSS information, plus a list of any additional vulnerable libraries.
Proposed Fixes	Proposed fixes for the selected vulnerability.

Viewing Additional Vulnerable Libraries

To view any additional vulnerable libraries, do as follows:

- In the **Vulnerabilities Details** pane in the middle, in the **Additional Vulnerable Libraries** area, click the link.

Fixing the Selected Vulnerable Library

To access potential fixes for vulnerable libraries, do as follows:

1. In the Vulnerabilities List on the left, select the vulnerability to which you want to find a fix.
2. On the right, in **Proposed Fixes**, select a fix and follow the instructions.

Impact

The **Impact** tab displays occurrences of this library in all projects and if the library is transitive, displays a tree view of the direct dependencies and the dependency path to the library.

For BETA VERSION

Versions

The **Versions** tab displays vulnerabilities per version, plus known versions of this library.

For BETA VERSION

Licenses

The **Licenses** tab displays all the licenses, copyrights, and notices assigned to a library. There are two general types of libraries:

- Those that were identified for the library as a result of the scanning process (WhiteSource-scanned license), and as a result, will be displayed in this screen upon first-time login.
- Those that were manually assigned by users (by following the procedures in this section)

You can also manually add additional copyrights and licenses, plus notices, all of which will also be displayed on the screen.

Component	Description
High/Medium/Low	The license's risk
Licenses	Licenses assigned to this library. You can assign a license, and revert (rollback to its default state) a license. Clicking the link on the left opens the License Details screen. See Viewing the License Details .
Copyrights	Copyrights assigned to this library. You can assign a copyright, and revert a copyright (rollback to its original state/information prior to the copyright being assigned).
Library Notices	Notices (noteworthy free-text descriptions) assigned for this library.
Assigned by	The user who assigned the license to the library
	Delete a manually-added license from the library.
	Toggle to activate/de-activate a WhiteSource-scanned license.
License File: link	The link to the license file that the scanner has identified.

Assigning a License to a Library

To (manually) assign a license to a library, do as follows:

1. Above the table, select **Actions > Assign License**. The **Assign License** dialog box is displayed.
2. Do as follows:

- In **License**, select the license that you want to assign.
- In **Liability Reference**, enter links, website names, documentation, etc. from where this license was taken.
- In **Additional Comments**, enter any important free-text comments.

3. Click **OK**. The license's row is displayed in the table.

De-activating a License

NOTE: This procedure is relevant for WhiteSource-scanned licenses only.

If a license is de-activated (toggled to its “greyed-out”, or disabled state), it will remain assigned to the library but will not be included in any future reporting or scanning. It can be re-activated at any time.

To de-activate a license, do as follows:

- In the license's row, toggle the activation button () to the de-activated state (whereupon it will be displayed as disabled, or “greyed-out”).

Activating a License

NOTE: This procedure is relevant for WhiteSource-scanned licenses only.

When you activate a license (toggling it to its “green” state), it returns from its de-activated state, and will then be included in any future reporting or scanning.

To activate a license, do as follows:

- In the license's row, toggle the activation button from its disabled state to its (green) activated state.

Deleting a Manually-Assigned License from a Library

NOTE: WhiteSource-scanned licenses - licenses identified as a result of the scanning process - cannot be deleted from a library.

To delete (remove) a manually-added license from a library, do as follows:

- In the **Licenses** area, library's row, click the delete icon  . The row is removed from the library.

Reverting Manual Changes on a License

When you revert a license's manual changes to a library, you rollback the license to its (default) WhiteSource-scanned state. All manually-added licenses will be removed from the table.

To revert a license's manual changes, do as follows:

- In the area above the license's table, click **Revert**. All manually-added licenses will be deleted from the table. 

Assigning a Copyright to a Library

To assign a copyright to a library, do as follows:

1. Above the copyright pane, select **Assign Copyright**. The **Assign Copyright** dialog box is displayed.
2. Do as follows:
 - In **Copyright Period**, enter the period for which this copyright will be valid.
 - In **Author**, enter the name of the library's author.
 - In **Organization**, enter the organization with the rights to the library.
 - In **Additional Comments**, enter any import free-text comments.
3. Click **OK**. The license's row is displayed in the table.

Reverting Manual Changes on a Copyright

When you revert a copyright, you rollback its changes on the library, and the previous copyright (if one existed) will become the current copyright. If there was no previous copyright, the license will not have an assigned copyright (until you assign another one).

To revert the manual changes on a copyright, do as follows:

1. Above the copyright pane, select **Revert**. The **Revert Copyright** dialog box is displayed.
2. Click **OK**.

Creating a Library Notice

A notice is free text that describes the license requirements.

NOTE: You may create only one notice per library, but you may add to that notice as needed. See [Modifying a Library Notice](#).

To create a notice for a library, do as follows:

- In the **Library Notices** area, enter the notice's text. There is no need to manually save; the notice is saved automatically.

Modifying a Library's Notice

You can modify a library's notice by adding additional text to that notice, or by changing/deleting the existing text.

To modify a library's notice, do as follows:

- In the **Library Notices** area, modify the text as needed. You can add additional text or change existing text. There is no need to manually save; the notice is saved automatically.

Sending an Email to the Assigner

You can send emails directly to the user responsible for assigning the license to the library (assigner).

To send an email to the assigner, do as follows:

1. In the license's row, hover over the user's name in **Assigned By**.
2. In the tooltip, click the user's email. A blank email will open in your default email application.
3. Enter the email's text and send accordingly.

Viewing the License Details Screen

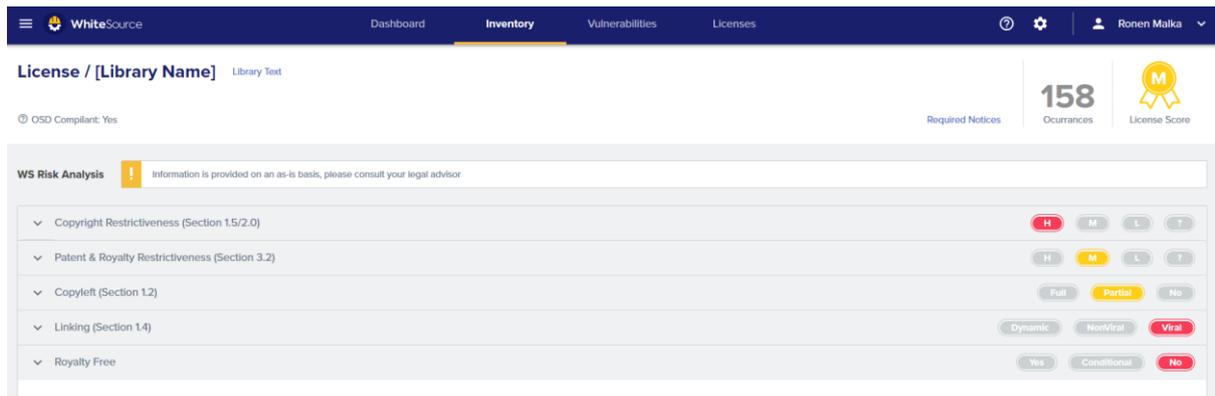
Overview

The License Details screen provides detailed information regarding licenses, in order to better understand the license risk.

Accessing the License Details Screen

The License Details screen can be accessed from the following locations:

- The **Licenses** column in the Inventory screen
- The **License Type** column in the **Licenses** screen
- The licenses in the **Licenses** tab in the **Licenses** screen



The screenshot shows the WhiteSource interface for a license. At the top, there is a navigation bar with 'WhiteSource', 'Dashboard', 'Inventory', 'Vulnerabilities', and 'Licenses'. The user 'Ronen Maika' is logged in. Below the navigation bar, the page title is 'License / [Library Name] Library Test'. On the right, there are three key metrics: 'Required Notices' (158 Occurrences), 'License Score' (M), and 'OSD Compliant: Yes'. The main section is titled 'WS Risk Analysis' with a warning icon and the text 'Information is provided on an as-is basis, please consult your legal advisor'. Below this, there are five expandable sections: 'Copyright Restrictiveness (Section 1.5/2.0)', 'Patent & Royalty Restrictiveness (Section 3.2)', 'Copyleft (Section 1.2)', 'Linking (Section 1.4)', and 'Royalty Free'. Each section has a dropdown arrow on the left and a set of risk level buttons (H, M, L, T) or other status buttons on the right.

Component	Description
OSD Compliant	(Yes/No) Indicates whether the license was reviewed and approved by the respective authority.
Required Notices	Notices that you are required to add in order to use this license.
License Score	The license's general risk analysis
WS Risk Analysis	<p>The Risk analysis for the following license criteria:</p> <ul style="list-style-type: none"> ▪ Copyright Restrictiveness ▪ Patent and Royalty Restrictiveness ▪ Copyleft ▪ Linking ▪ Royalty Free

Viewing Relevant Risk Analysis Information

To view relevant risk analysis information per license, do as follows:

- In the **WS Risk Analysis** area, for the risk section to which you want to view information (there are five sections per license), click the “down” arrow to expand the section’s area.

Note the following:

- The left side provides quotes from the license regarding each risk section
- The right side provides an explanation of the risk section

Generating Reports

For **BETA VERSION**

Overview

Inventory Report

Vulnerabilities Report

Licenses Report

Managing Settings

For **BETA VERSION**

User Management

User Profile

Scanning and Setup

Integration

Appendix A: Risk Score Analysis

This section details the license risk scores. **NOT FOR CURRENT VERSIONS**

License Risk Scores

License	Copyright Risk Score
Academic 3.0	39
AGPL 3.0	91
Apache 1.0	39
Apache 1.1	39
Apache 2.0	39
Apple 2.0	52
Artistic 2.0	65

Attribution Assurance	39
Boost	39
BSD 2	39
BSD 3	39
BSD 4	39
CC BY SA 4.0	39
CDDL 1.0	52
CDDL 1.1	52
CNRI Jython	39
Common Public 1.0	52
Computer Associates	65
Eclipse 1.0	65
Eclipse 2.0	65
Educational 2.0	39
Eiffel Forum 2.0	39
Entessa	39
EU DataGrid	39
Frameworkx 1.0	78
Golang BSD + Patents	39
GPL 1.0	78
GPL 2.0	78
GPL 2.0 Classpath	78
GPL 3.0	78
Historical Permission	39
IBM	39
Illinois/NCSA	39
ISC	39

LGPL 2.0	65
LGPL 2.1	65
LGPL 3.0	65
Lucent 1.02	39
Microsoft Public	65
Microsoft Reciprocal	52
MIT	39
Mozilla 1.0	65
Mozilla 1.1	65
Mozilla 2.0	65
Open LDAP 2.4	39
OpenSSL	39
PostgreSQL	39
Public Domain	13
Python 2.0	39
Ruby	78
Unlicense	13
X.Net	39
Zlib	39

Parameter Definitions

Copyleft	
Value	Description
Full	Copyleft on modifications as well as own code that uses the OSS
Partial	Copyleft applies only to modifications
No	Not a Copyleft license

Copyright		
Value	Description	Associated Risk
13	Licensee may use the code without restriction	LOW
26	Anyone who distributes the code must retain any attributions included in the original distribution	LOW
39	Anyone who distributes the code must provide certain notices, attributions and/or license terms in documentation with the software	LOW
52	Anyone who distributes a modification of the code may be required to make the source code for the modification publicly available at no charge	LOW
65	Anyone who distributes a modification of the code or a product that is based on or contains part of the code may be required to make publicly available the source code for the product or modification, subject to an exception for software that dynamically links to the original code. (example: LGPL)	MEDIUM
78	Anyone who distributes a modification of the code or a product that is based on or contains part of the code may be required to make publicly available the source code for the product or modification. (example: GPL)	HIGH
91	Anyone who develops a product that is based on or contains part of the code, or who modifies the code, may be required to make publicly available the source code for that product or modification if s/he (a) distributes the software or (b) enables others to use the software via hosted or web services. (example: Affero)	HIGH

Patent and Royalty Risk Score		
Value	Description	Associated Risk
20	Royalty-free and no identified patent risks	LOW
40	Royalty free unless litigated	LOW
60	No patents granted	MEDIUM
80	Specific identified patent risks	HIGH

Linking

Value	Description
Viral	Royalty free and no identified patent risks
Non-Viral	Royalty free unless litigated
Dynamic	No patents granted

Royalty Free	
Value	Description
Yes	Royalty free and no identified patent risks
Conditional	Royalty free unless litigated
No	No patents granted