

Code Insight 2023 R1 Release Notes

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Introduction

These Release Notes provide the following information about the Code Insight 2023 R1 release:

- [About Code Insight](#)
- [Reverera Resources](#)
- [New Features and Enhancements](#)
- [Resolved Issues](#)
- [Known Issues](#)
- [Legal Information](#)

About Code Insight

Code Insight is the next generation Open Source security and compliance management solution. It empowers organizations to take control of and manage their use of open source software (OSS) and third-party components. Code Insight helps development, legal, and security teams use automation to create a formal OSS strategy that balances business benefits and risk management.

Reverera Resources

The following resources can help you stay up to date with Code Insight news and product knowledge:

- In addition to providing case management, the [Reverera Community](#) site can help you quickly find answers to your questions by searching content from other customers, product experts, and thought leaders. You can also post questions on discussion forums for experts to answer. For each of Reverera's product solutions, you can access forums, blog posts, and knowledge base articles.
- You can find documentation for Code Insight and all other Reverera products on the [Reverera Product Documentation](#) site.
- The [Reverera Learning Center](#) offers free, self-guided online videos to help you quickly get the most out of your Reverera products. You can find a complete list of these training videos in the Learning Center.
- For customers who have purchased a maintenance contract for their product(s), you can submit a support case or check the status of an existing case by making selections on the **Get Support** menu of the Reverera Community.

<https://community.reverera.com>

New Features and Enhancements

The Code Insight 2023 R1 release provides new features and enhancements in the following areas:

- [Jobs Queue](#)
- [Project Management](#)
- [Scan Agent Plugins](#)
- [Scanning and Automated Discovery](#)
- [User Experience](#)
- [REST API Enhancements](#)

Jobs Queue


Code Insight has introduced the **Jobs** queue as a web UI feature in this release.

The **Jobs** queue enables you to monitor all scheduled and active jobs and review historical (completed, failed, or otherwise) jobs in your Code Insight system. Queued jobs include:

- Project Branching and Project Copy events
- Project scans and rescans
- Electronic Updates (PDL Updates)
- Audit, Notices, Project, and custom reports
- Project deletions

The grid format of the queue enables you to easily read the details for a given job. Additionally, search mechanisms are available that help you locate the jobs you want to monitor or review. You can refresh the queue at anytime to obtain the latest job information.

By default, the list shows all jobs queued in the last 15 days and sorted in descending order by the **Job ID** column.

The **Jobs** queue is accessible from the Code Insight main menu. (Click  in the upper-right corner of the UI and select **JOBS**.)

For more information about this feature, see the “Monitoring the Code Insight Jobs Queue” section in the *Code Insight User Guide*.

Job ID	Job Type	Project Name	Status	Triggered By	Queued On	Activated On	Completed On	Details
1352	Project Branching	brancheddhdhnh	Completed	asahoo	01/11/2023 at 10:34 AM		01/11/2023 at 10:34 AM	Branching is successful: Project import completed.
1351	Project Branching	microsoft branch	Active	asahoo	01/11/2023 at 10:20 AM			Branching is in progress: Project import has started.
1350	Project Scan	Branched sportal project	Failed	asahoo	01/11/2023 at 10:16 AM	01/11/2023 at 10:16 AM	01/11/2023 at 10:18 AM	Scan of project Branched sportal project
1349	Project Branching	Branched sportal project	Active	asahoo	01/11/2023 at 10:15 AM			Branching in progress: Started scanning the project.
1348	Project Branching	brancheddhdhnh	Active	asahoo	01/11/2023 at 10:01 AM			Branching is in progress: Project import has started.
1347	Project Scan	Project-5	Failed	asahoo	01/11/2023 at 08:14 AM	01/11/2023 at 08:14 AM	01/11/2023 at 08:16 AM	Scan of project Project-5
1346	Project Re-Scan	awesome-go	Completed	asahoo	01/11/2023 at 08:05 AM	01/11/2023 at 08:05 AM	01/11/2023 at 08:07 AM	Scan of project awesome-go
1345	Project Scan	Project-4	Failed	asahoo	01/11/2023 at 07:57 AM	01/11/2023 at 07:58 AM	01/11/2023 at 08:00 AM	Scan of project Project-4
1344	Project Scan	Project-3	Failed	asahoo	01/11/2023 at 07:39 AM	01/11/2023 at 07:40 AM	01/11/2023 at 07:52 AM	Scan of project Project-3
1343	Project Scan	project-1	Terminated	asahoo	01/11/2023 at 07:20 AM	01/11/2023 at 07:20 AM	01/11/2023 at 07:37 AM	Scan of project project-1
1342	Project Scan	project-1	Failed	asahoo	01/11/2023 at 07:03 AM	01/11/2023 at 07:03 AM	01/11/2023 at 07:08 AM	Scan of project project-1
1341	Project Scan	BOM_TEST_ALL	Completed	admin	01/09/2023 at 06:39 AM	01/09/2023 at 06:39 AM	01/09/2023 at 06:39 AM	Scan of project BOM_TEST_ALL
1340	Project Scan	BOM_TEST_ALL	Completed	admin	01/09/2023 at 06:38 AM	01/09/2023 at 06:38 AM	01/09/2023 at 06:38 AM	Scan of project BOM_TEST_ALL
1339	Project Scan	BOM_Test_scan	Completed	admin	01/09/2023 at 06:16 AM	01/09/2023 at 06:16 AM	01/09/2023 at 06:17 AM	Scan of project BOM_Test_scan
1338	Project Scan	GoQuard-Trans	Completed	truti	01/09/2023 at 05:36 AM	01/09/2023 at 05:36 AM	01/09/2023 at 05:36 AM	Scan of project GoQuard-Trans
1336	Project Deletion	Deleted Project	Completed	admin	01/05/2023 at 11:12 AM	01/05/2023 at 11:12 AM	01/05/2023 at 11:12 AM	Deletion of Project : branched project (Project Id: 38)
1333	Project Deletion	Deleted Project	Completed	admin	01/04/2023 at 09:16 AM	01/04/2023 at 09:19 AM	01/04/2023 at 09:19 AM	Deletion of Project : sportal-rest-01 (Project Id: 750)
1332	Project Deletion	Deleted Project	Completed	admin	01/04/2023 at 09:15 AM	01/04/2023 at 09:15 AM	01/04/2023 at 09:19 AM	Deletion of Project : microsoft-rest-01 (Project Id: 751)
1330	Project Deletion	Deleted Project	Completed	admin	01/04/2023 at 09:14 AM	01/04/2023 at 09:14 AM	01/04/2023 at 09:14 AM	Deletion of Project : eportal-rest-01 (Project Id: 749)

Project Management

The following enhancement is now available for managing projects.

Project Deletions Now Queued and Run in Background

Previously project deletions were performed as soon as the **Delete Project** option in the UI was selected or the **Delete Project** API was issued. However, the deletion of large projects along with other events across Code Insight could cause issues such as project deadlocks or system timeouts.

Starting in this release, project deletions now added to the new Code Insight **Jobs Queue** and run in the background. When project deletions are triggered concurrently, they are scheduled in the queue and run one at a time to help avoid contention with other projects and events. Users can monitor the deletion progress in the **Jobs** queue.

See also [REST API Enhancements](#) in this document for the API changes that support this enhancement to the project deletion process.

For complete details about queued project deletions and about the new **Jobs** queue in the UI, see the “Deleting a Project” and “Code Insight Jobs Queue” sections, respectively, in the *Code Insight User Guide*.

Report Generation Not Allowed During a Scan on Same Project (and Vice Versa)

To help prevent deadlocks on a project, Code Insight has implemented the following behavior to block users from triggering a scan and a report in parallel on the same project:

- If a user attempts to generate any report (standard or custom) for a project for which a scan or rescan is in queue or in progress, the **Generate Selected Report** button on the **Reports** tab for the project is disabled. Once the scan completes, button is re-enabled.
- If a user attempts to trigger a scan or rescan on a project while a report is in queue or in progress for the same project, a pop-up message is displayed, explaining that a report is in progress and that the user must wait until the operation is complete before attempting to trigger the scan.

When a user calls the REST API to attempt either of the above actions, the response explains the error. See [Updates to Existing APIs](#).

In all cases, you can attempt the scan or report generation again once the parallel event is finished.

Scan Agent Plugins

The following enhancement is now available for one or more of the Code Insight scan-agent plugins.

Refined License Reporting for Docker Containers

In the previous release (which introduced Syft integration with Docker image scans), Code Insight simply reported license names for inventory directly from the Syft scan response. This behavior could cause license mismatches with the Code Insight data library and result in “Unknown License” designations for inventory.

In this release, the license matching process has been refined:

- Only the names of those licenses reported by Syft that have matching names in the Code Insight data library are explicitly included in the inventory name.
- If multiple licenses are reported by Syft, the inventory name can include the names of up to three license matches along with an **or more** clause, indicating that more licenses (with matches or no matches in the data library) are available for you to review.
- You can view the names of all matched and non-matched licenses detected by Syft for a given inventory item by accessing the inventory’s **Detection Notes** in the Code Insight UI.

For instructions on using the Docker Images plugin, see “Docker Images Plugin” in the *Code Insight Plugins Guide*.

Jenkins and Generic Plugin Support for Java 11

The Jenkins and generic scan-agent plugins have extended their Java support to include Java 11. These plugins can now scan systems that run on Java 8 or 11.

Scanning and Automated Discovery

This release includes the following enhancements to Code Insight scans and to the “automated analysis” techniques used to discover and report inventory during scans.

Support for Cargo Packages

Code Insight now reports top-level inventory from pre-build and post-build artifacts such as `Cargo.toml` and `.crate` files, respectively. For more information, see the “Automated Analysis” section in the *Code Insight User Guide*.

Support for Python .egg Files

Previously, Code Insight retrieved direct dependencies for post-build artifacts from only .whl files in a PyPI ecosystem. Now, direct dependencies for post-build artifacts are retrieved also from .egg files in the ecosystem:

- Top-level inventory is reported from the PKG-INFO file, which resides within the .egg file.
- The direct dependencies are reported from the requires.txt file, which is bundled along with PKG-INFO file inside the .egg file.

For more information, see the “Automated Analysis” section in the *Code Insight User Guide*.

User Experience

This release includes the following enhancements to user experience.

Enhanced Success Messages

Success messages are displayed in the upper-right corner of the Code Insight UI when certain operations have successfully completed. The following enhancements have been made to these messages:

- Longer persistence for additional viewing time
- A Close icon in the upper-right corner of the message box, enabling you to close the message manually



REST API Enhancements

This release includes the following changes to the Code Insight REST interface.

- [Updates to Existing APIs](#)

Updates to Existing APIs

The following section describes updates that have occurred to existing APIs in this release.

Table 1 • Updates to Existing APIs

Resource	API Name/Endpoint	Method	Function Change Description
Jobs	Get job details based on filters /jobs	GET	This endpoint has changed from /jobs/all to /jobs, and the following filters have been added: <ul style="list-style-type: none">● jobType—The type of event that triggered the job: Project Branching, Project Copy, Project Scan, Project Re-Scan, PDL Update, Audit Report, Notices Report, Project Report, Custom Report, Project Deletion.● status—The status of the job: New, Active, Canceled, Completed, Failed, Scheduled, Terminated, Waiting on update.● projectId—The project’s ID.● triggeredBy—The login name of the user who initiated the event that triggered the job.● jobsHistoryInDays—Jobs queued in the last x days, where x is the user-specified value for the filter.
	Get job details based on the jobId provided /jobs/{Id}	GET	“Project Deletion” is shown in the response as the jobType for those jobs that performed (or are performing) a project deletion. (The deleted project name is usually referenced in jobDetails property.)
License	License Lookup /license/lookup	GET	Previously, if the SPDX identifier did not exist for a license in the Code Insight database, the spdxIdentifier field in the response showed the short name or full name of the license. In this release, if the SPDX identifier is not available in the database, spdxIdentifier now properly shows “N/A” in response.
	License lookup based on shortname /license/{shortname}		


Table 1 - Updates to Existing APIs (cont.)

Resource	API Name/Endpoint	Method	Function Change Description
Project API	Delete a Project... projects/{projectId}	DELETE	<p>In previous releases, the project deletion process started immediately. This process is now queued with a job ID and runs in the background. The API returns the response code 202 (changed from 200 in the previous Code Insight release) and a response similar to this example:</p> <pre>{ "message": "Project will be deleted in the background with the job ID: 1336", "_links": { "project-deletion-status": { "href": "http://<host>:<port>/codeinsight/ api/jobs/1336", "method": "GET" } } }</pre> <p>The URL shown in the response can be called through a REST client to obtain the status updates and details for the deletion. Alternatively, users can call the Get job details based on jobId API for this information.</p> <p>For more information, see Project Deletions Now Queued and Run in Background and Jobs Queue in this document.</p>
	Generate Report /projects/{projectId}/reports/{reportId}/generate	POST	<p>You are now prevented from generating a report while a scan or rescan on the same project is in queue or in progress. If you attempt to run a report, the response code 503 (Service Unavailable) is returned, and the response shows the error message “Scan is in progress or in queue, please wait till the operation is complete”.</p>
Reports	Delete Report /reports/{reportId}	DELETE	<p>The reportId instead of reportName is now required to delete a report. The use of reportId avoids issues that resulted when report names contained special characters. The response shows both the reportId and the reportName for the deleted report. A reportId can be obtained through the Get Reports API.</p>
Scan API	Project Scan /scanResource/projectScan/{projectId}	POST	<p>You are now prevented from triggering a scan or rescan while a report generation on the same project is currently in queue or in progress. If you attempt to trigger a scan, the response code 503 (Service Unavailable) is returned, and the response shows the error message “Report generation is in progress or in queue, please wait till the operation is complete”.</p>

Resolved Issues

The following issues are resolved in this release.

Issue	Resolution Notes
SCA-27385	Previously, component lookup and searches on SQL Server were slower compared to those on MySQL. The lookup and search features have now been optimized for enhanced performance on SQL Server.
SCA-32546	Marking codebase files as reviewed/not reviewed in batch or in rapid succession no longer causes the UI to hang.
SCA-41937	Previously, when users attempted to scan certain projects using the Jenkins scan-agent plugin, Jenkins integration failed when they clicked Build Now . The issue was occurring because the project being scanned was based on Java 11; and the Jenkins plugin provided support for Java 8 only. The plugin has now extended its Java support to include Java 11. See Jenkins and Generic Plugin Support for Java 11 .
SCA-42222	Custom filters created in the Advanced File Search feature for codebase files were not being saved properly for subsequent searches. This issue has been resolved so that custom filters persist as they were defined.
SCA-42588	Previously, during those scans enabled for transitive-dependency reporting, direct dependencies that had no version in pom files were not reported. Such dependencies are now being reported.
SCA-42874	Previously, LDAP and ALM synchronizations and Electronic Updates were grouped as tasks in such away that, when a user changed the frequency of one these tasks, the change would wipe out the schedule for the other two tasks. Hence, the other tasks would not run. This scheduling design has been revised so that changes to the frequency of one task no longer impacts the schedule defined for the other tasks. Each of the tasks runs at the frequency at which they are set.
SCA-43519	Previously, if the SPDX identifier did not exist for a license in the Code Insight database, the spdxIdentifier field in the response showed the short name or full name of the license. In this release, if the SPDX identifier is not available in the database, spdxIdentifier now properly shows “N/A” in response. This fix is also discussed in Updates to Existing APIs .
SCA-43687	Even though inventory existed, no inventory was being reported when users scanned their Packagist repository using <code>composer.json</code> . This issue has been resolved.
SCA-43790	Previously, when a user initiated a project deletion and then logged out of Code Insight (or the Code Insight session timed out), the deletion would not complete. Additionally, no error for was shown in the UI or the logs. Project deletions are now scheduled in the Code Insight Jobs Queue and run in the background. If the user logs out of Code Insight or the session times out, the project deletion still runs as scheduled. See Project Deletions Now Queued and Run in Background .
SCA-44029	The issue with scans failing with “EncryptionOperationNotPossibleException” has been resolved.

Issue	Resolution Notes
SCA-44030	This release shows an overall significant improvement in scan times for Docker images (compared to the scan times in the 2022 R4 release).
SCA-44157	Previously the Get Inventory Summary of the project REST API was not always retrieving the URL for the component forge even though the URL was displayed in the UI. The API now uses the same internal database-search process that the UI uses to located the URL. If the URL is still not located during this process, the URL value is listed as N/A in the API response and similarly in the UI.
SCA-44189	Deadlocks among projects were occurring during parallel project deletions. Project deletions are now scheduled in the Code Insight Jobs Queue and run in the background, helping to avoid these deadlocks. See Project Deletions Now Queued and Run in Background .
SCA-44245	An invalid project status error that was listed in <code>core.log</code> prior to a Project Copy is no longer being listed in the log.
SCA-44274	Previously, if you right-clicked a file in the Codebase Files or File Search Results pane to mark it a reviewed or not reviewed (or to add it to inventory with Mark files as reviewed selected) <i>and</i> information for that file was still loading in the UI, the UI could hang. This issue has been resolved so that both the file information is loaded and the file is marked as reviewed or not reviewed as indicated.
SCA-44290	Components recently added to the Code Insight data library are now showing their correct URL in scan results.
SCA-44383	Previously, when you attempted to add a large number files to an inventory item (for example, by selecting a folder with all its subfolders) and selected Mark files as reviewed as part of the add process, the UI could hang. This issue has been resolved.
	 <p>Note - This issue applied to only those Code Insight systems that used SQL Server.</p>
SCA-44398	Code Insight previously ignored copyrights if they used certain formats. Copyrights using these formats are now being detected as valid copyrights.
SCA-44372	Previously, the correct license for certain components was not being detected. The Code Insight data library has been updated to resolve this issue.
SCA-44421	Scans were erroneously giving an “unpublished” status to certain inventory items. Scans now properly assign the “published” status to these items.
SCA-44910	To avoid a deadlock on a project, measures are now in place to prevent a scan and a report to run in parallel on the same project. See Report Generation Not Allowed During a Scan on Same Project (and Vice Versa) .
SCA-45214	Previously, the security vulnerability CVE-2020-10683 was missed for the dom4j 1.6.1 component. The vulnerability is now reported.

Issue	Resolution Notes
SCA-45935	Previously, Mozilla Public License 1.1 was not being detected for the <code>html-parser.js</code> file. Scans are now detecting this license.
SCA-45980	Commercial licenses are now assigned an appropriate priority. If no license priority exists in the database, the default is P2. Previously, no priority was assigned to commercial licenses.

Known Issues

The following are current known issues in Code Insight. The issues are organized as follows:

- [All-Project Inventory View](#)
- [Application Life Cycle Management \(ALM\) Support](#)
- [Automated Workflow for Inventory Review/Publication](#)
- [Data Library and Electronic Updates](#)
- [Export and Import](#)
- [Installation, Upgrades, and Configuration](#)
- [Inventory History](#)
- [Manual Codebase Analysis](#)
- [Performance](#)
- [Project Inventory](#)
- [Project Management](#)
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- [Scanning and Automated Discovery](#)
- [Source Code Management \(SCM\) Support](#)
- [Vulnerability Suppression/Unsuppression](#)
- [Web UI](#)

All-Project Inventory View

The following are known issues in the **Inventory** view, which shows inventory across all Code Insight projects.

SCA-34403: Inventory details slide-out panel opening twice

When a user clicks an inventory item in the **Inventory** view, the panel showing the inventory's read-only details appears briefly on the right side of the view and then properly slides out from the right.

Workaround: None exists.

Application Life Cycle Management (ALM) Support

The following are known issues with Code Insight ALM support.

SCA-44325: Invalid user name accepted in ALM instances configured for Jira in the Cloud

Even though an invalid user name is used in an ALM instance configured for a Jira server in the Atlassian Cloud, the user is still able to connect to the Jira server as long as the API token in the instance is valid. This issue occurs because credential validation in a Cloud-based Jira server is performed against the token only.

Workaround: None exists.

Automated Workflow for Inventory Review/ Publication

The following are known issues with the automated workflow for inventory review and publication.

SCA-11193: Incorrect URL(s) in email notifications

In cases where Code Insight is running on a server that uses multiple IP addresses (for example, a server that has both a wired and wireless active network connection), the Core Server address cannot be accurately resolved. As a consequence, users can encounter an incorrect URL in the email notification received from Code Insight. This issue is most often seen if the Code Insight core server is configured as "localhost" instead of a full IP address.

Workaround: None exists.

Data Library and Electronic Updates

The following are known issues related to the Code Insight data library and the Electronic Update, which keeps Code Insight systems up to date with the latest data-library information.

SCA-43625: Server shutdowns when simultaneous custom-component indexing and searching occur

As of 2022 R4, Code Insight starts the background process of indexing a custom component in the Code Insight data library as soon as the component is created or updated. Even though indexing takes only a half minute or less per component, a server shutdown can occur if you attempt to perform a component search against the data library while multiple components are being simultaneously indexed.

Workaround: Wait until the indexing process is finished for all components before you use the Global Component & License Lookup feature or the **Component Search** REST API to search components in the data library.

SCA-43568: Sequential creation of multiple custom components with similar names resulting in incorrect component search counts and pagination

As of 2022 R4, Code Insight starts the background process of indexing a custom component in the Code Insight data library as soon as the component is created or updated. If multiple custom components with similar names are sequentially created/updated and indexed in the background, the search results for these components might show incorrect search counts and pagination.

Workaround: After the custom-component updates are indexed, run an Electronic Update to fix the indexes.

SCA-40194: Duplicate inventory issues for MIT-related components

The Code Insight MIT data-library update does not fix inventory items with names that include multiple licenses separated by commas (instead of ORs), as shown in this example:

```
jquery (MIT, MIT License)
```

On a rescan, duplicates can be created for such inventory items:

```
jquery (MIT, MIT License)
```

```
jquery (MIT)
```

Two possible workarounds are available.

Workaround 1: Before starting the rescan, select the option **On data import or rescan, delete inventory with no associated files** on the **Manage Project > Edit Project > General** tab accessed from the project's **Summary** tab. This option deletes the original inventory item as long as it is system-generated.

Workaround 2: Manually delete the original inventory item in the **Analysis Workbench** by right clicking the item and selecting **Delete inventory**. You must repeat this step for each such inventory item.

SCA-31562: Component license remapping issues from MIT-Style to MIT for inventories

Remapping Issues have occurred once the latest Electronic Update (available from Code Insight 2021 R4 and later) has been run. These issues involve the remapping of licenses from MIT-Style to MIT for inventories. The following is an example.

Before running the Electronic Update available at the release of Code Insight 2021 R4 and later:

The following inventory mapping existed in inventory:

```
concurrent-ruby 1.1.9 (MIT License)
```

This component was mapped with License id 744.

After running the Electronic Update available at the release of Code Insight 2021 R4 and later:

The inventory item was remapped as follows:

```
concurrent-ruby 1.1.9 (MIT-Style)
```

The license short name had been changed (in this example, from MIT License to MIT-Style). However, the mapped license ID remained 744.

Ideally this component should be remapped to MIT, which is License id 7.

Workaround: Follow these steps:

1. Click **Inventory** on the main Code Insight window to open the **Inventory** view, showing inventory across projects.
2. Switch from **My Projects** to **All Projects**.
3. Search for the inventories containing the string (*MIT-Style*).
4. Locate the **Possible Licenses** value for a given inventory. If this value is **MIT** (Id 7) *and* the term *MIT-Style* is in the inventory name or is the value of **Selected License**, then an incorrect license remapping has been performed for this specific inventory item. One incorrect license remapping is a possible indicator of other incorrect remappings.
5. Run the Code Insight cleanup SQL script to correct the license mappings for the inventory in your Code Insight system. (To obtain this script, download the `codeinsight-MITCleanupPackage` archive from the Product and Licensing Center, and extract the script and its instructions.)

Export and Import

The following are known issues with the Code Insight project export and import functionality.

SCA-3222: Import overrides inventory details

Importing the same inventory into a project that already contains inventory can cause some details to be overwritten or blanked out. If duplicate inventory (by associated repository item ID) is encountered during the import process, inventory details are overwritten with data from the export data file.

Recommended: Perform an export of the project prior to importing into the project in case you need to return to the original project state.

SCA-21295: Import of Detection Notes over 16 MB generates an error

When Code Insight uses a MySQL database, an error can occur during a project import if the source project's **Detection Notes** content exceeds 16 MB. The import process generates an error message and continues processing the inventory but does not import the notes.

Workaround: Ensure that only a single network interface controller is enabled on the core server running Code Insight. As an added measure, configure the core server using a numerical IP address instead of a "localhost".

Installation, Upgrades, and Configuration

The following are known issues with a Code Insight installation or upgrade and configuration.

SCA-35918: Upgrades to Code Insight possibly more time-consuming than previous upgrades

Upgrading to Code Insight might take longer than previous upgrades, especially if the number of inventory items in your Code Insight system has increased since the last upgrade. For example, an upgrade for a system with about 1 million inventory items can now take around 15-20 minutes, which might be longer than your previous upgrades. The extra time needed for the upgrade is due the **Inventory History** feature (introduced in 2021 R3), which requires that the inventory items for all projects be processed for inclusion in the history.

Note, however, that once an inventory item is included in the history, it does not need to go through this initialization process in subsequent upgrades.

Workaround: None exists. If you have any concerns about the time taken for this process, contact Reverera Support for assistance.

SCA-15952: Installer unable to install embedded JRE on some Windows 10 instances

Running the installer on some (but not all) Windows 10 systems results in an “Installation: Successful null” message and does not completely populate the <INSTALL_ROOT>\jre directory.

Workaround: Should you encounter the above error, install the JRE manually. Download JRE 8u192 [here](#). Configure the JAVA_HOME and JRE_HOME variables in catalina.* to point to the newly installed JRE.

SCA-1652 / SCA-5812: Deleted or disabled users still visible in the Web UI

Users who are deleted from the LDAP server or disabled in LDAP still appear on the **Users** page in the Code Insight Web UI and in some selection lists, such as for projects.

Workaround: None exists. However, deleted or disabled users are blocked from logging into the application and attempting to add one of these users will results in an error.

If this workaround is not sufficient or doable, contact Reverera Support for information about executing a database SQL script that can help to complete the index process within the expected time. The script must be run *before* the Electronic Update is started. (To contact Reverera Support, access the **Get Support** menu in the Reverera Community at <https://community.reverera.com>.)

Inventory History

The following are known issues with the Inventory History feature.

SCA-36420: Inventory URL and Description attributes shown as updates in Inventory History without their being modified

After an initial transaction is performed against an inventory item (such as editing or viewing the item), entries for the **URL** and **Description** properties are displaying in the **Inventory History** window even though these properties were never modified as part of the transaction. These two initial entries will remain in the history. However, any future transactions against the inventory item will not create an update entry for the **URL** or **Description** property unless the value for either property has actually changed.

Workaround: None exists.

Manual Codebase Analysis

The following are known issues with manual codebase analysis in the **Analysis Workbench**.

SCA-46104: Not able to retrieve Advanced File Search results when using same criteria but with distinct values and AND logic

The Advanced File Search feature does not retrieve the expected results when you define a filter using multiple criteria that are the same (but with a distinct value for each criterion) and apply AND logic to the criteria. Files known to meet all the specified criteria are not listed in the **File Search Results** pane.

SCA-44366: Error thrown when navigating file search results

When you use the **Enter search string...** field at the top of the **Codebase Files** pane to search for files by name, you can use the Next or Previous button adjacent to the field to navigate to the search results highlighted in the codebase tree. However, if you click these buttons a rapid pace, you can generate an error (although the UI does not hang).

Workaround: Click the buttons at a slower pace.

SCA-41440: “Show File Evidence” right-click option on “File Search Results” pane not working at node, folder, and sub-folder levels

When you right-click an alias node, codebase node, folder, or sub-folder in the **File Search Results** pane in the **Analysis Workbench**, and then select **Show File Evidence**, the **Evidence Details** tab on the right displays the message “No Evidences found”.

However, when you select **Show File Evidence** at the file level in the **File Search Results** pane, the evidences properly are listed on the **Evidence Details** tab as expected.

This behavior occurs whether the files were scanned by a Scan Server or a scan-agent plugin.

Workaround: None exists.

SCA-41964: Empty results when Advanced Search with “File Path” criterion attempts to fetch 2000 or more results

An **Advanced Search** using the **File Path** criterion can produce empty results in the **Analysis Workbench** if the search attempts to retrieve 2000 or more results. This issue can occur whether searching a file system scanned by a remote scan agent or a codebase scanned by a Scan Server.

This issue does not occur when the search fetches less than 2000 results.

Workaround: None exists.

SCA-27011: Advanced Search based on low confidence inventory not working

In the **Analysis Workbench**, an **Advanced Search** for files associated with inventory that has a low confidence level is returning incorrect or no results.

Workaround: None exists.

SCA-22398: Licenses not highlighted even though evidence exists

Cases can occur during a scan when a license is discovered in the scan results and listed on the **Evidence Summary** tab, but no associated license text is highlighted on the **Partial Matches** tab. The lack of highlighting occurs because the scanner is unable to calculate the offsets for license text in the file.

Workaround: None exists.

SCA-22308: “Email/URLs” evidence truncated

In some cases after running a scan, the **Email/URLs** evidence on the **Evidence Details** tab in **Analysis Workbench** is truncated.

Workaround: None exists.

SCA-10414: Associated files not displayed when user adds more than 37K files to inventory

When more than 37K files are added to an inventory item, the associated files are not displayed on the **Associated Files** tab.

Workaround: Right-click the inventory item and select **Show Inventory Files**. The content on the **File Search Results** pane in **Analysis Workbench** is filtered to the associated files for the inventory item.

Performance

The following are known issues with Code Insight performance.

Performance slower with MySQL 8 than with MySQL 7

Codebase scans and updates to the Code Insight data library are slower when Code Insight uses the MySQL 8 (5.8) database compared to when it uses MySQL 7 (5.7).

Project Inventory

The following are known issues with the review process for Code Insight project inventory.

SCA-44107: Unable to delete an inventory item with a large number of associated files

Attempts to delete an inventory item associated with a large number files (50KB or more) can fail.

Workaround: None exists.

SCA-44077: Deletion of a top-level inventory item causing deletion of dependency inventory

When a user deletes a top-level inventory item, all of its dependent inventory items are also deleted.

Workaround: None exists.

SCA-41263: License text shown twice in As-Found License Text field in Analysis Workbench

In the **Analysis Workbench**, the text for a license can be repeated twice for some components (such “glob”) when the license file contains more than one license.

Workaround: None exists.

SCA-11520: Policies not applied on rescan of a project

The triggering event for applying policy to project inventory is “Publish” (not scan). Policies are applied during the initial scan if the default setting **Automatically publish system-created inventory items** is selected, but policies are not applied during a *rescan* because inventory is not re-published. This behavior is in place to avoid inadvertent overriding of inventory status due to a change in policy by another user.

Workaround: To apply policy, first recall all inventory and rescan with **Automatically publish system-created inventory items** enabled.

Project Management

The following are known issues with project management in Code Insight.

SCA-41957: Project Copy performance slower when the Code Insight database resides on a separate machine

Processing time for Project Copy increases when the Code Insight database resides on a machine different from the machine where the Core Server resides. Project Copy processing is most efficient when the Core Server, Scan Server, and database reside on the same machine.

Workaround: None exists.

SCA-41862: Increased time for Project Copy and other operations when Project Copy runs in parallel

If a Project Copy is triggered when any other operation—such an import, export, scan, or report generation—is also running in your Code Insight system, the processing time for the Project Copy as well as for the other operation (especially an import, export, or scan) will be relatively greater than if these operations were run at separate times.

Workaround: In general, perform the listed operations at separate times for better performance. Ensure that Project Copy does not run in parallel with any of these operations.

SCA-41682: Project dashboard of copied project shows both Scanner and Remote Scans sections even though source project was only remotely scanned

The project dashboard of the copied project shows both Scanner and Remote Scans sections info even though the source project was scanned by a scan agent only. Only the Remote Scan section should be displayed.

Workaround: None exists.

SCA-20012: File filters in Chrome and Edge browsers not showing supported upload archive types correctly

When selecting a codebase archive to upload from File Upload dialog, the file filter on the browser you are using might list the supported archive types properly:

- On the Chrome browser, the file filter list incorrectly shows “Custom Files” instead of “Supported Files” and does not allow you to filter on the individual supported archive types.
- On the Edge browser, the file filter list shows unsupported archive types.

Project Reporting

The following are known issues with Code Insight reporting.

SCA-22054: Project Report not showing URLs for custom vulnerabilities

The Project report is not showing the NVD (National Vulnerability Database) URLs for custom vulnerabilities until they are updated to the Data Library.

Workaround: Use the Web UI to view all vulnerabilities associated with inventory.

SCA-11263: Project Report hyperlink on tasks worksheet for inventory does not work

Clicking on an inventory link in the Project Report takes the user to the login page even if user is currently logged in. This is a bug in Excel.

Workaround: Log into the application. Go back to the Excel report output and click on the hyperlink again. This is an issue only for inactive sessions.

REST APIs

The following are known issues with the Code Insight REST interface.

SCA-16508: Swagger page hangs when required API parameters are missing

Instead of producing an appropriate error message, a Swagger page can hang when you attempt to execute an API without providing required parameters.

Workaround: None exists.

SCA-7950: Page and size parameters are not working with some REST APIs

Limiting the result set returned by some REST APIs is not currently supported. Using the page and size parameters with the Component Lookup and Get Project Inventory APIs (and possibly others) returns the full result set.

Workaround: None exists. However, the issue will be addressed in an upcoming release.

Scan Agent Plugins

The following are known issues with Code Insight scan-agent plugins.

SCA-46348: Scan on specified multiple folders not working properly

If you explicitly specify multiple folders for a scan agent plugin to scan (for those plugins that allow you to specify multiple folders), only the last folder in the passed list is scanned.

Workaround: Specify a single folder per scan.

SCA-46097: Docker Images name with “/” causing scan to fail

A Docker Images plugin scan on a Docker image fails if the image name contains a forward slash (/), but the command that runs the scan does not include a valid tag for the name.

Workaround: If the Docker image name contains a forward slash, be sure that the command that runs the scan includes a valid tag for the image name. The following example command illustrates the correct <name>:<tag> format required in the command:

```
./code-insight-docker-plugin.sh -image alpinelinux/darkhttpd:latest
```

In the example, **alpinelinux/darkhttpd** is the image name containing a forward slash, and **latest** is the added tag (preceded by a colon).

SCA-44239: Delta file calculation during rescan not synchronized with scan

The Docker Images plugin can sometimes acknowledge files that have not changed since the previous scan as changed in the rescan. This error can impact scan time.

Workaround: None exists.

SCA-44209: Associated files not available in Syft findings for Docker Images plugin scans on Centos

File associations are not available for inventories reported by Syft during a Docker Images plugin scan on a Centos agent machine. This issue does not occur for scans performed by the same plugin on RedHat Enterprise Linux and Ubuntu machines.

Workaround: None exists.

SCA-44073: Invalid file association for transitive dependencies generated from go.sum

During a transitive scan, inventory generated from the go.sum file can have an invalid association to go.mod.

Workaround: None exists.

SCA-43034: Inappropriate error message for scan failure when using current plugin with older Code Insight release

A current scan-agent plugin is not compatible with an earlier Code Insight release. Therefore, any attempt to run a scan-agent plugin with a Code Insight release previous to the plugin release results in failure. However, an appropriate message for this type of failure is not provided.

Workaround: None exists.

SCA-42606: Seemingly “Successful” completion of Docker plugin scan despite errors

A Docker plugin scan can fail on a codebase/artifact system containing large archive files but a small /tmp partition. However, the scan status can still show “SUCCESS” (although the agent log might record the error that caused the failure).

Workaround: None exists.

SCA-41197: SHA-1 calculated for only scanned files during agent rescans subsequent to re-enablement of SHA-1

When SHA-1 is disabled and then re-enabled, any subsequent rescan by a scan agent calculates a SHA-1 value for only those files that are scanned (that is, updated or new files). SHA-1 is not calculated for those files that are skipped by the scan because they remained unchanged since previous scan.

Workaround: None exists.

SCA-41154: No scan agent support for full rescans

Prior to Code Insight 2022 R2, scan agents plugins performed only full scans. Starting 2022 R2, scan agents now support *only* incremental rescans. After the scan agent’s initial full scan of a file system, any subsequent rescans are incremental only; no forced full rescans are supported. However, a full rescan should automatically occur whenever Automated Analysis rules change, a new Code Insight version introduces new rules or data library changes, or the scan-profile settings change. Currently, no logic exists to support such an automatic full rescan when these conditions exist.

Workaround: None exists.

SCA-40626: I/O exception during Jenkins plugin scan after deletion of “.codeinsight” folder from Jenkins agent

Users can delete the .codeinsight folder from the Jenkins agent if needed. However, once the folder is deleted, scans scheduled for the Jenkins plugin might fail with an I/O exception.

For your reference, this folder is identified as `$user_dir.codeinsight`, where `$user_dir` is as follows:

- `/home/<user>/` on Linux
- `C:/Users/<user>/` on Windows

Workaround: Restart the Jenkins server.

SCA-38346: NVD calls are not going through proxy for plugin scans

When a proxy is enabled for the generic scan-agent plugin or the Jenkins plugin, NVD calls bypass the proxy during scans.

Workaround: None exists.

SCA-33465: Scan agent inventory results impacted when CODEINSIGHT_ROOT variable set to wrong path

A scan agent can produce different inventory count results when the `CODEINSIGHT_ROOT` variable is set as environment variable and defined with an incorrect path compared to when the variable is set to the correct path or simply not used as an environment variable. (The scan agent does not require `CODEINSIGHT_ROOT` to be set as an environment variable.)

Workaround: If you are running the scan agent on the same machine as Code Insight Core Server, determine whether `CODEINSIGHT_ROOT` has been set as environment variable. If it has, ensure that it points to the correct path. Otherwise, do not set `CODEINSIGHT_ROOT` as an environment variable.

SCA-28141: Maven, Ant, and Gradle scan-agent rescans might fail in dynamic host environments

Rescans performed by Maven, Ant, and Gradle scan-agent plugins v2.0 (introduced in Code Insight 2020 R3) might fail in dynamic host environments. This is due to a v2.0 requirement that rescans use the same scan-agent alias and hostname used in the previous scan. This will be addressed in a future release.

Workaround: Use the Jenkins scan-agent or the scan-agent for another CI tool that supports the "host" property. This property enables you to provide a user-defined hostname that does not change between scans.

SCA-27678: Possible deadlocks with parallel agent scans on same project

Deadlocks might occur when at least one scan-agent scan and one or more other scans (agent or server) run simultaneously on the same project.

Workaround: Scans can be scheduled in sequence to avoid deadlock exceptions.

SCA-27431: Dependencies currently not reported for Maven and Gradle scan agents

Previous versions (1.x) of the Maven and Gradle scan-agent plugins scanned both the dependencies section *and* the project build directory of the Maven or Gradle application project. However, version 2 of the plugins, introduced in Code Insight 2020 R3, scans the project build directory, but not the dependencies section. Thus, dependencies are currently not reported for scans performed by the two plugins.

Workaround for Maven: Refer to the Maven documentation for instructions on how to include dependencies as a part of build directory. An example install command for including dependencies might be:

```
maven-dependency-plugin install copy-dependencies ${project.build.directory}/project-dependencies
```

Workaround for Gradle: Refer to the Gradle documentation for instructions on how to include dependencies as a part of build directory. An example install command for including dependencies might be:

```
task copyToLib(type: Copy) { into "$buildDir/output/lib" from configurations.runtime }
```

You would then use the following command to run the scan agent from the Gradle application project:

```
gradle build copyToLib code-insight-scan
```

SCA-3378: Jenkins scan-agent plugin – downgrade not supported

After an upgrade to a Jenkins scan-agent plugin, a downgrade button option is available in the Web UI. Clicking on the option results in a 404 error.

Workaround: None exists.

SCA-3000: Scan agent plugins might generate published inventory with no selected license

For scan agent plugins not updated from 1.x (supports only legacy inventory-only projects) to 2.x, the scan results might show published inventory items that have no associated licenses. This occurs when the scan agent finds no license evidence in the codebase files or when Code Insight is able to map to the component, but multiple licenses are associated with it. In this case, the inventory item is created using Compliance Library data. It might show one or more *possible* licenses but most likely no selected license. Since the **Analysis Workbench** is not available for the legacy “inventory only” plugins, the user cannot not resolve the license issue.

Workaround: Recall the inventory item to prevent it from showing up in the published inventory items list.

Scanning and Automated Discovery

The following are known issues with Code Insight codebase scans and the detection techniques used by scans.

SCA-44154: Transitive dependencies not reported for golang.org/x/tools module

During a transitive scan of the tools module `golang.org/x/tools`, the Go Analyzer reports no inventory.

Workaround: The next Electronic Update will resolve this issue.

SCA-43792: Issue with Go module inventory names when associated component URL has a version suffix

When a discovered component in a Go module has a /v<digit> suffix in its URL, the inventory name is displayed as simply v<digit> in the Code Insight UI and API responses. For example, if the URL for the blackfriday component is `github.com/russruss/blackfriday/v2`, its inventory name is displayed as **v2**, instead of **blackfriday**.

Workaround: None exists.

SCA-43659: Security vulnerabilities not reported for Go components

Scans on Go packages are not reporting security vulnerabilities for Go components.

Workaround: None exists.

SCA-43103: Files with path change but same MD5 still being rescanned

Files whose path has changed but whose MD5 remains the same are still being rescanned even those the project's scan profile is configured *not* to rescan unchanged files.

Workaround: None exists.

SCA-34070: Scan status not immediately in effect after “Stop Scan” issued

Currently, when a user forces a currently running scan to stop (for example, by clicking **Stop Scan** from the project **Summary** tab or the global **Scan Queue** dialog), the stopped status for the scan might not take effect immediately, even after a screen refresh.

Workaround: None exists.

SCA-30756: Increased scan times for some codebases when NG-bridge data update facility is enabled

In cases where the instance on which the Code Insight Scan Server is running has the NG-bridge data update facility enabled, the scan is able to identify more exact-file matches. However, increased matching can also cause the scan and rescan times to increase for certain codebases. This increased time can be a problem for some sites.

Workaround: Disable the NG-bridge data update facility. (Note that this facility is initially disabled by default.)

SCA-30423: Scans with large number of source-code matches resulting in longer scan times

When project is scanned with the Comprehensive scan profile or a custom scan profile, either of which has source-code matching enabled, the scan takes longer than usual if it encounters a large number of matches.

Workaround: None exists.

Inventory automatically published during previous scan now unpublished after rescan

To address issues, Code Insight now assigns a confidence level of **Low** to those inventory items that are identified by a file-name analyzer technique (a part of automated analysis) during a scan. If your project is configured to publish inventory with **Medium** or **High** confidence, inventory detected by this technique will now have an automatic unpublished status. This change is applicable only for new scans.

Workaround: The previously published inventory items are still available. In the **Analysis Workbench**, simply filter inventory by **Not Published** to view the unpublished inventory, and then publish inventory as needed.

SCA-26486: Conda first-level dependencies with Semantic versions not resolved

Semantic versions for Conda first-level dependencies are not being resolved.

Workaround: None exists.

SCA-7820: Some NPM version patterns are not supported

When scanning an NPM project, certain versions might not be detected through automated analysis. The following are not supported: URLs as dependencies, versions containing a hyphen (for example, "crypto-js": "3.1.9-1"), and versions of the format X.X.X (for example, "through": "X.X.X").

Workaround: None exists.

Source Code Management (SCM) Support

The following are known issues with Code Insight SCM support.

SCA-46441: TFS repository failing to synchronize

The synchronization between a TFS codebase repository and a Code Insight project can fail even though the TFS instance connection is configured correctly (with a valid URL, user name, password, and other properties) in the project.

Workaround: On the **Version Control Settings** tab for the project, provide a personal access token (PAT) in the **Password** field instead of a password to enable successful synchronizations.

SCA-40067: SCM instance numbering systems used in REST API output and Web UI not in sync

The instance Ids shown in the **GET SCM Instance** API response are not in sync with SCM instance numbers generated in the Web UI.

Workaround: None exists

SCA-27751: Failure of Perforce SCM instance to synchronize Unicode files to Scan Server

Perforce SCM instances can fail to synchronize Unicode-formatted files to the Scan Server if the instance is running in Windows and configured for SSL.

Workaround: None exists.

SCA-27674: Synchronization with Team Foundation Server failing (Linux only)

Codebase synchronization with a Team Foundation Server (TFS) instance on Linux fails when character spaces or certain special characters exist in attributes used to set up the synchronization on the **Version Control Settings** tab for a project.

The following issue has been logged with TFS:

<https://github.com/microsoft/team-explorer-everywhere/issues/321>

Workaround: None exists.

Vulnerability Suppression/Unsuppression

The following are known issues with the Vulnerability Suppression/Unsuppression functionality.

SCA-37089: Unable to suppress/unsuppress a vulnerability for more than 2097 versions of a component all at once (in a SQL Server environment)

When a user attempts to suppress or unsuppress a security vulnerability for more than 2097 versions of a component all at once (using the **All Current Versions** scope or the **Specified Versions** scope with more than 2097 entries), the operation fails with an appropriate error message. This same problem occurs when running the **Suppress vulnerability** or **Unsuppress vulnerability** REST APIs.

This issue occurs only when the Code Insight database is SQL Server.

Workaround: Suppress or unsuppress the vulnerability using the **Specified Versions** scope with fewer entries. Repeat this operation until the vulnerability has been suppressed or unsuppressed for all desired versions.

SCA-36973: Open alert counts not automatically refreshed after vulnerability suppression

After a security vulnerability is suppressed for a component version with open an open alert associated with the vulnerability, the open alert count is not automatically refreshed to show the reduced count in the Code Insight Web UI.

Workaround: Manually refresh the browser screen.

SCA-36768: “Vulnerabilities” bar graph not automatically refreshed after vulnerability suppression

After a security vulnerability is suppressed for a component version, the count in the appropriate “severity” segment of the **Vulnerabilities** bar graph for the component version is not automatically reduced.



Note • The issue has been fixed for the bar graph on the **Inventory** view and **Project Inventory** tab. However, the issue has not been fixed for the bar graph displayed in other locations.

Workaround: Manually refresh the browser screen.

Web UI

The following are known issues with the Code Insight Web UI.

SCA-27892: Project Dashboard showing incorrect format after report generation for agent scans

If only a scan agent has performed a remote scan for a project and a report is subsequently generated for the project, the project Dashboard is showing a split **Scan Summary** pane with scan statistics for both the scan agent and the scanner (which shows statistics of 0 since it has run no scan). The **Scan Summary** should not be split; the full pane should list statistics for the remote scan only.

SCA-20683: Project details not automatically updating after scan

Project details are not automatically updating after a scan in the Web UI.

Workaround: Refresh the screen.

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