

Release Notes Version 2022.7.1



This edition of the *Release Notes* refers to version 2022.7.1 of Black Duck.

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Please send your comments and suggestions to:

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Black Duck documentation

The documentation for Black Duck consists of online help and these documents:

Title	File	Description
Release Notes	release_notes.pdf	Contains information about the new and improved features, resolved issues, and known issues in the current and previous releases.
Installing Black Duck using Docker Swarm	install_swarm.pdf	Contains information about installing and upgrading Black Duck using Docker Swarm.
Getting Started	getting_started.pdf	Provides first-time users with information on using Black Duck.
Scanning Best Practices	scanning_best_practices.pdf	Provides best practices for scanning.
Getting Started with the SDK	getting_started_sdk.pdf	Contains overview information and a sample use case.
Report Database	report_db.pdf	Contains information on using the report database.
User Guide	user_guide.pdf	Contains information on using Black Duck's UI.

The installation methods for installing Black Duck software in a Kubernetes or OpenShift environment are Synopsysctl and Helm. Click the following links to view the documentation.

- Helm is a package manager for Kubernetes that you can use to install Black Duck.
- Synopsysctl is a cloud-native administration command-line tool for deploying Black Duck software in Kubernetes and Red Hat OpenShift.

Black Duck integration documentation is available on **Confluence**.

Release Notes Preface

Customer support

If you have any problems with the software or the documentation, please contact Synopsys Customer Support.

You can contact Synopsys Support in several ways:

- Online: https://www.synopsys.com/software-integrity/support.html
- Phone: See the Contact Us section at the bottom of our support page to find your local phone number.

To open a support case, please log in to the Synopsys Software Integrity Community site at https://community.synopsys.com/s/contactsupport.

Another convenient resource available at all times is the online customer portal.

Synopsys Software Integrity Community

The Synopsys Software Integrity Community is our primary online resource for customer support, solutions, and information. The Community allows users to quickly and easily open support cases and monitor progress, learn important product information, search a knowledgebase, and gain insights from other Software Integrity Group (SIG) customers. The many features included in the Community center around the following collaborative actions:

- Connect Open support cases and monitor their progress, as well as, monitor issues that require Engineering or Product Management assistance
- Learn Insights and best practices from other SIG product users to allow you to learn valuable lessons from a diverse group of industry leading companies. In addition, the Customer Hub puts all the latest product news and updates from Synopsys at your fingertips, helping you to better utilize our products and services to maximize the value of open source within your organization.
- Solve Quickly and easily get the answers you're seeking with the access to rich content and product knowledge from SIG experts and our Knowledgebase.
- Share Collaborate and connect with Software Integrity Group staff and other customers to crowdsource solutions and share your thoughts on product direction.

Access the Customer Success Community. If you do not have an account or have trouble accessing the system, click here to get started, or send an email to community.manager@synopsys.com.

Training

Synopsys Software Integrity, Customer Education (SIG Edu) is a one-stop resource for all your Black Duck education needs. It provides you with 24x7 access to online training courses and how-to videos.

New videos and courses are added monthly.

At Synopsys Software Integrity, Customer Education (SIG Edu), you can:

- Learn at your own pace.
- Review courses as often as you wish.

Release Notes Preface

- Take assessments to test your skills.
- Print certificates of completion to showcase your accomplishments.

Learn more at https://community.synopsys.com/s/education or for help with Black Duck, select Black Duck

Tutorials from the Help menu () in the Black Duck UI.

Synopsys Statement on Inclusivity and Diversity

Synopsys is committed to creating an inclusive environment where every employee, customer, and partner feels welcomed. We are reviewing and removing exclusionary language from our products and supporting customer-facing collateral. Our effort also includes internal initiatives to remove biased language from our engineering and working environment, including terms that are embedded in our software and IPs. At the same time, we are working to ensure that our web content and software applications are usable to people of varying abilities. You may still find examples of non-inclusive language in our software or documentation as our IPs implement industry-standard specifications that are currently under review to remove exclusionary language.

Announcements for Version 2022.7.1

There are no new announcements for Black Duck 2022.7.1.

New and Changed Features in Version 2022.7.1

There are no new or changed features in Black Duck 2022.7.1.

Container versions

- blackducksoftware/blackduck-postgres:11-2.15
- blackducksoftware/blackduck-authentication:2022.7.1
- blackducksoftware/blackduck-webapp:2022.7.1
- blackducksoftware/blackduck-scan:2022.7.1
- blackducksoftware/blackduck-jobrunner:2022.7.1
- blackducksoftware/blackduck-cfssl:1.0.9
- blackducksoftware/blackduck-logstash:1.0.20
- blackducksoftware/blackduck-registration:2022.7.1
- blackducksoftware/blackduck-nginx:2.0.25
- blackducksoftware/blackduck-documentation:2022.7.1
- blackducksoftware/blackduck-upload-cache: 1.0.27
- blackducksoftware/blackduck-redis:2022.7.1
- blackducksoftware/blackduck-bomengine:2022.7.1
- blackducksoftware/blackduck-matchengine:2022.7.1
- blackducksoftware/blackduck-webui:2022.7.1
- sigsynopsys/bdba-worker:2022.6.0
- blackducksoftware/rabbitmq:1.2.10

API Enhancements

There are no new or changed API requests in Black Duck 2022.7.1. For more information on API requests, please refer to the REST API Developers Guide available in Black Duck.

Fixed Issues in 2022.7.1

The following customer-reported issues were fixed in this release:

- (HUB-34472, HUB-34682, HUB-34781, HUB-35244). Fixed an issue where modifying licenses on the Component Version page was not reflected in the BOM report.
- (HUB-34618). Improved the performance when generating the Version Detail report on KB On-prem environments.
- (HUB-35304). Fixed an issue where the super user role assigned to a user group was not migrated to the new roles introduced in 2022.7.0 when upgrading to 2022.7.0.
- (HUB-35349). Fixed an issue where Rapid Scans scans could fail after upgrading to Black Duck 2022.7.0 due to messages being sent after the matching process was finished. It was more likely to occur when the environment had multiple match containers running.

Announcements for Version 2022.7.0

Extended database schema upgrade time for Black Duck 2022.10.0

Upcoming in Black Duck 2022.10.0, a database schema update will require more time and temporary disk space than normal to upgrade, depending upon your database size. Users with 1TB+ databases should plan for up to 4 hours of downtime. All users will need at least as much free space as the size of the st.scan_composite_leaf table. The size can be found with the following query:

```
select pg_size_pretty(pg_total_relation_size('st.scan_composite_leaf'));
```

PostgreSQL 9.6 deprecation

As previously announced, support for running Black Duck on PostgreSQL 9.6 ended with the 2021.6.0 release of Black Duck. Starting with the 2022.7.0 release of Black Duck, attempting to run Black Duck with PostgreSQL 9.6 will generate an error, and Black Duck will fail to start.

Upcoming PostgreSQL 11 deprecation

Support for running Black Duck on PostgreSQL 11 will end with the 2022.10.0 release. Starting with that release, attempting to run Black Duck with PostgreSQL 11 will generate an error and Black Duck will fail to start.

PostgreSQL container migration from 11 to 13

Black Duck will migrate its PostgreSQL image from version 11 to version 13 with the **2022.10.0** release. Customers not using the Synopsys-supplied PostgreSQL image will not be affected.

Upcoming custom-fields API change

In the 2023.1.0 release of Black Duck, the following APIs will change to return errors when trying to read or change a custom field that is disabled. The field will need to be re-enabled before it can be accessed.

- GET api/components/{componentId}/custom-fields/{custom-field-id}
- PUT api/components/{componentId}/custom-fields/{custom-field-id}
- GET api/components/{componentId}/versions/{componentVersionId}/customfields/{custom-field-id}
- PUT api/components/{componentId}/versions/{componentVersionId}/customfields/{custom-field-id}

Support for legacy signature scans and legacy package manager scans deprecation

This functionality will be officially sunset in the Black Duck 2023.7.0 release.

Customers should upgrade to Detect 8.x to ensure compatibility. Detect 8.x is tentatively targeted for release in May/June 2022 which aligns with Black Duck 2022.7.0 release and this deprecation release note. This will give customers a one year period to upgrade Detect in alignment to the future sunset date.

Upcoming Helm2 end of support

Starting with the 2023.1.0 release, Black Duck will no longer support Helm2 for Kubernetes deployments. The minimum supported version of Kubernetes will increase to 1.13 (the oldest version supported by Helm3).

Correction: Git repository SCM Integration - Phase 1

Instructions provided in the 2022.4.0 release notes regarding enabling Git repository SCM Integration in Black Duck for Swarm users were incorrect. The correct variable setup is as follows:

For your docker-compose. yaml webapp environment:

Also, in your blackduck-config.env file, add the following:

```
blackduck.scan.scm.enableIntegration=true
```

Updated PostgreSQL support schedule

Starting with the upcoming **2022.10.0** release, Black Duck will end support for external PostgreSQL 11. Please see the table below for the projected dates for the beginning and end of support for future PostgreSQL versions.

PG Version	First Release	Last Release	BD External Support Added	BD External Support End
16.x	Late 2023	Late 2028	2024.7.0	2026.10.0
15.x	Late 2022	Late 2027	2023.7.0	2025.10.0
14.x	September 2021	November 2026	2022.7.0	2024.10.0

13.x	September 2020	November 2025	2021.8.0	2023.10.0
12.x	October 2019	November 2024	X	X
11.x	October 2018	November 2023	2020.6.0	2022.10.0

Japanese language

The 2022.4.0 version of the UI, online help, and release notes has been localized to Japanese.

Simplified Chinese language

The 2022.4.0 version of the UI, online help, and release notes has been localized to Simplified Chinese.

New and Changed Features in Version 2022.7.0

PostgreSQL 14 support for external databases

Black Duck now supports and recommends PostgreSQL 14 for new installations that use external PostgreSQL. Migrating to Black Duck 2022.7.x does not require migration to PostgreSQL 14.

No action is required for users of the internal PostgreSQL container.

NOTE: Due to an index corruption bug in PostgreSQL 14.0 through 14.3, the minimum supported version of PostgreSQL 14 is 14.4.

Split of super user role into Admin domain roles

Currently, any Black Duck user with the Super User role can create/amend the permissions of all users such that they can assign the system administrator role to any user including their own user. This leads to any Super User having the ability to gain complete access and control of the Black Duck instance, including the SysAdmin role. This appears as a privilege escalation defect however the role is functioning as intended.

In order to prevent this scenario, the Super User role has been removed and new roles have been created to handle various responsibilities formerly associated to it: Global Project Administrator, Global Project Group Administrator, User Administrator and Custom Field Administrator. Additional information on these new roles can be found in the Black Duck Help.

New Infrastructure as Code (IaC) issues display

Applications are not just the application code, the infrastructure and deployment methods are a critical component for ensuring application security. IaC is therefore being used to automate this deployment and setup of applications in different cloud and on-prem environments. These configuration options play a key role in ensuring application security and are particularly important for containerised or service based applications.

Now with Black Duck 2022.7.0, you can now see IaC issues when viewing the BOM of a project's version page if the scan included IaC. The information displayed will provide you with information needed to take action on any potential issues found in your code.

Please note that to run IaC scans, you must meet the following operating system requirements and have Detect 7.14 or later.

For more information regarding Infrastructure as Code scanning, please refer to our Community page.

Improved robustness for scan CLI

Scan CLI has been improved to prevent hanging when it completes on the server by introducing a retry mechanism. This means that scans will complete and upload normally even after Hub, scan, or nginx services restart.

New support for bulk comments for a project version components

This new feature provides the ability to add bulk comments to ease user review and curation of the BOM. For example, instead of applying comments to components individually, you can select any number of components on the project version page and add a comment to the selected items simultaneously.

New automated API access token purging

This new feature will allow User Administrators of the Black Duck system to better maintain and control access to Black Duck via access tokens by setting up a schedule to automatically purge inactive access tokens. This functionality can be found on the new **Admin > Access Tokens** page. You can also manually curate all existing access tokens as well through this page.

Increased binary scan container memory allocation

In order to prevent binary scans failures, we have increased the binary scan container memory from 2GB to 4GB.

Enhanced Policy Rule user experience

When creating or editing a policy, the Component Conditions will now display instructions to clarify how to add or exclude a component version to a policy when the "in" or "not in" operators are used.

Updated Black Duck KnowledgeBase search

The **Find** > **Black Duck KnowledgeBase** page has had some minor changes to its appearance and how the results are displayed after performing a search.

In the earlier releases, Black Duck KnowledgeBase searches displayed Black Duck projects and Custom Components along with KnowledgeBase components in the result set. Starting with 2022.7.0, Black Duck KnowledgeBase searches return only KnowledgeBase Component data. In order to search for Custom Components, users should leverage the Components search tab. To search for Black Duck projects, users should use the Projects search tab.

In addition, the Component Source filters on the Black Duck KnowledgeBase page (Custom Components and Black Duck Projects) have been removed.

Enhanced KnowledgeBase update job tasks

Previously, tasks that made up a KnowledgeBase update job (component, component version, license, NVD vulnerability, and BDSA vulnerability) were run in preset order. If the component task failed, subsequent tasks would not be executed. New to 2022.7.0, a continuation mechanism has been introduced that manages failed tasks, which prevents the blocking of the execution of subsequent tasks.

Additionally, this provides better optics from a jobs page perspective as long as some detail is present on why a specific task failed.

New Rapid Scan properties added

The following properties have been added to the output of Rapid Scans:

- cwelds: List of Common Weakness Enumeration (CWE) IDs for this security vulnerability.
- shortTermUpgradeGuidance: Suggested component version to upgrade to as a short term course of action to address this vulnerability as it is the same major version as the one in use.
- longTermUpgradeGuidance: Suggested component version to upgrade to as a long term course of action. Taking this course of action might require major version number upgrade and must be more carefully planned.

New upgrade guidance information to Detect endpoint

The following have been added to the Detect component scan results:

- shortTermUpgradeGuidance: Suggested component version to upgrade to as a short term course of action to address this vulnerability as it is the same major version as the one in use.
- longTermUpgradeGuidance: Suggested component version to upgrade to as a long term course of action. Taking this course of action might require major version number upgrade and must be more carefully planned.

Updated data retention management for project versions

You can now better manage your project versions' data retention policy. If Automatic Data Removal has been enabled in your environment, you can now select specific project versions to protect from deletion. This can be enabled when creating a new project or by editing existing project versions. When viewing your project, project versions protected from Automatic Data Removal will have a lock icon displayed at the end of its row.

Updated Software Bill of Materials (SBOM) Report type and export formats

You can now export the Software Bill of Materials report for your projects in CycloneDX v1.4 format. The CycloneDX v1.4 format includes security vulnerability information; BDSA records will now be included along with NVD records.

For more information on CycloneDX v1.4, please visit the CycloneDX v1.4 reference page.

The report type (SPDX, CycloneDX v1.3, or CycloneDX v1.4) will also be included in the report name to better identify the type used after report generation.

In addition, new report formats are available when generating a SBOM report. You can now select from JSON, YAML, RDF, and tag:value as an output for your report.

New database partition job

The Journal table is now partitioned by months. The first partition is special and contains all existing journal events. The JournalPartitionMaintenanceJob job creates new database partitions for the project audit trails and drops old partitions and Journal events older than 5 years.

Scan state/status refactoring

Previously, scan status was a design combination of scan state and scan progress which does not work

well in the current queue-based scan architecture. The new approach will provide a state and then a way to track the progress of the scan as it progresses through the system. This approach should be flexible enough so the traditional scan architecture can be retrofitted so a single approach is used. State should remain in the database, while progress, being transient and updated more frequently should be moved to cache.

Reporting database enhancements

Added exposed on field in reporting.component vulnerability materialized view.

Minor Reporting schema change

In 2023.1.0, the type of the basedir column in reporting.scan_view will change from character varying to text to accommodate paths longer than 255 characters.

Supported browser versions

- Safari Version 15.5 (17613.2.7.1.8)
 - Safari versions 13.0 and below are no longer supported
- Chrome Version 103.0.5060.114 (Official Build) (x86_64)
 - Chrome versions 71 and below are no longer supported
- Firefox Version 102.0 (64-bit)
 - Firefox versions 71 and below are no longer supported
- Microsoft Edge Version 103.0.1264.44 (Official build) (64-bit)
 - Microsoft Edge versions 78 and below are no longer supported

Container versions

- blackducksoftware/blackduck-postgres:11-2.15
- blackducksoftware/blackduck-authentication:2022.7.0
- blackducksoftware/blackduck-webapp:2022.7.0
- blackducksoftware/blackduck-scan:2022.7.0
- blackducksoftware/blackduck-jobrunner:2022.7.0
- blackducksoftware/blackduck-cfssl:1.0.9
- blackducksoftware/blackduck-logstash:1.0.20
- blackducksoftware/blackduck-registration:2022.7.0
- blackducksoftware/blackduck-nginx:2.0.25
- blackducksoftware/blackduck-documentation:2022.7.0
- blackducksoftware/blackduck-upload-cache:1.0.27
- blackducksoftware/blackduck-redis:2022.7.0
- blackducksoftware/blackduck-bomengine:2022.7.0
- blackducksoftware/blackduck-matchengine:2022.7.0
- blackducksoftware/blackduck-webui:2022.7.0
- sigsynopsys/bdba-worker:2022.6.0
- blackducksoftware/rabbitmq:1.2.10

API Enhancements

For more details on new or changed API requests, please refer to the API doc available in Black Duck.

New API to download Sigma Scanner

A new endpoint has been created to download the Sigma binary from upload-cache directly. The API request has a path variable, arch, which is required to indicate the desired architecture as well as an optional header parameter called version.

■ GET /api/tools/sigma?arch={arch}

Fixed Issues in 2022.7.0

The following customer-reported issues were fixed in this release:

- (HUB-33231). Fixed an issue where sorting scans by scan size on the Scans page was not displaying the list in the correct order.
- (HUB-33974). Fixed an issue where the affected project count for vulnerabilities might be misleading.
 Ignoring a component will change the number of components with a given risk on the summary page.
 Vulnerability searches will not count ignored components, but the component search will.
- (HUB-32773). Fixed an issue when a component has been modified locally would cause our system to consider it a local component and not originating from the KnowledgeBase. The BOM computation would not query the KnowledgeBase when fetching new information for the component.
- (HUB-34468). Fixed issue where rapid scans would time out while waiting in queue for other, longer running scan types to finish matching.
- (HUB-34459). Fixed an issue where the --matchConfidenceThreshold parameter was not functioning when used with the traditional scan.cli.
- (HUB-33477). Fixed an issue where the Black Duck Metadata URL download button was available if SAML was disabled.
- (HUB-33549). Fixed an issue where the "Match Type" selection list for "Policy Management > Create Policy Rule > Component Conditions" doesn't have "Direct Dependency Binary" and "Transitive Dependency Binary" options.
- (HUB-34215). Updated the jackson-databind and gson components in responses to finding 4 high vulnerabilities.
- (HUB-33551). Fixed an issue where uploading a BDIO file with a null code location would fail with status code 400.
- (HUB-32919). Fixed an issue when attempting to download a scan using aggregate mode BDIO from Hub would produce a corrupt/empty BDIO of 0 bytes.
- (HUB-29445). Fixed an issue where the Projects REST API filtering did not support project names with commas.
- (HUB-33164). Fixed an issue where system logs were not downloadable from the Blackduck UI when excessive in size.
- (HUB-34282). Fixed an issue with the system_check.sh script where it could produce false warnings if
 the limits and reservations for memory are set to exceeding 512MB higher than Java heap size. the
 script has been updated to flag when the overhead is >20% and >1024Mb of memory so that smaller

- containers will not cause false warnings when set up in accordance to the documentation.
- (HUB-33923). Fixed an issue when refreshing the Admin > Diagnostics > System Information > Job page, the statistics for job history could display significantly different counts.
- (HUB-34195). Updated the REST API documentation to remove SBOM as a value from reportType from the Creating a Version Report section (or the /api/versions/ {projectVersionId}/reports request).
- (HUB-34296). Fixed an issue where the policy override date info cannot be displayed in Japanese settings due to an incorrect i18n character.
- (HUB-32008). Fixed an issue where the Security Risk Ranking page can get stuck Processing due to "Up-to-date with error" events not being auto-cleaned-up by the QuartzVersionBomEventCleanupJob job.
- (HUB-33727). Fixed a UI bug when updating remediation status or comment of a vulnerability (In Security tab of Project Version).
- (HUB-33691). Fixed a UI bug where the warning icons were missing on the Cryptography tab for encryption algorithms with known weaknesses.
- (HUB-34240). Fixed an issue with the /api/projects/{projectId}/custom-fields/{customFieldId} request where it could generate a 400 error when posting a null value.
- (HUB-34246). Fixed browser display issues on the Project Version Comparison view.
- (HUB-33246). Clarified the REST API documentation; replaced references to https://server-url>/api/.
- (HUB-33481). Fixed an issue with the inconsistent response of /api/projects/ {pid}/versions/{vid}/matched-files?offset={larger than totalCount} between 2021.8.x and later versions. The matched-files endpoint should return now consistently return a 200 OK response with empty items even if the offset > totalCount.
- (HUB-34468). Fixed an issue where Rapid Scan was failing with the following error: "Error getting developer scan result. Timeout may have occurred." or a HTTP 404 Not Found response caused by a delay in the match engine.
- (HUB-33512). Updated the text for Test Connection, User Authentication and Field Mapping found under Administration > Settings > User Authentication. Removed the mention of "and shows result of mapping test-user's meta-data".
- (HUB-34836). Fixed an issue where it was possible to edit unmatched components as the project itself when the BLACKDUCK HUB SHOW UNMATCHED flag was enabled.
- (HUB-34380). Fixed an issue when trying to scan a new version into a project that has had a very large number of adjustments made to it could cause the BOM scan of the new version to fail on the server with the message "Exception occurred Too many parameters".
- (HUB-33793). Fixed an issue where Project Version details report was failing when a registration key not licensed with "Black Duck Security Advisory" was used with a change in security risk ranking.
- (HUB-33375). Fixed some bad SQL grammar in the query building code where ORDER BY was

- outside of the loop that determines which field by which to sort. If there were no sort fields, the ORDER BY would be null.
- (HUB-34780). Fixed an issue where the statistics on Administration -> Diagnostics -> usage: project -> Project_created/Version_Created/Version_Deleted was limited to 500 even if more than 500 projects/version were created or deleted.
- (HUB-34592). Fixed a deserialization of CodeLocationBomMatchCacheEntry error when there are zero matched components, but both empty and existing fails in the test.
- (HUB-34588). Fixed an issue with the copyright links for the conan package not working due to unencoded hash character in link.
- (HUB-24664). Fixed an issue where BDSBackgroundUpdateWorker was still trying to communicate out to the registration servers over HTTP rather than HTTPS.
- (HUB-33679). Fixed an issue where MaaS enabled scans sometimes fail when extracting composite elements.
- (HUB-34218). Updated the REST API documentation to include "componentVersionName" and "componentVersion" for "BOM Component Representation".

New and Changed Features in Version 2022.4.2

Improved performance on database migration script

Performance improvements have been made to the database migration script used when upgrading Black Duck versions resulting in faster installation times.

Container versions

- blackducksoftware/blackduck-postgres:11-2.13
- blackducksoftware/blackduck-authentication:2022.4.2
- blackducksoftware/blackduck-webapp:2022.4.2
- blackducksoftware/blackduck-scan:2022.4.2
- blackducksoftware/blackduck-jobrunner:2022.4.2
- blackducksoftware/blackduck-cfssl:1.0.7
- blackducksoftware/blackduck-logstash:1.0.18
- blackducksoftware/blackduck-registration:2022.4.2
- blackducksoftware/blackduck-nginx:2.0.16
- blackducksoftware/blackduck-documentation:2022.4.2
- blackducksoftware/blackduck-upload-cache:1.0.27
- blackducksoftware/blackduck-redis:2022.4.2
- blackducksoftware/blackduck-bomengine:2022.4.2
- blackducksoftware/blackduck-matchengine:2022.4.2
- blackducksoftware/blackduck-webui:2022.4.2
- sigsynopsys/bdba-worker:2022.3.0
- blackducksoftware/rabbitmg:1.2.7

API Enhancements

For more details on new or changed API requests, please refer to the API doc available in Black Duck.

Fixed Issues in 2022.4.2

Black Duck 2022.4.2 contains no fixed customer-reported issues.

New and Changed Features in Version 2022.4.1

New BDSA Auto Remediation setting to automatically ignore CVEs with related unmatched BDSA records

Activating this setting will automatically remediate new CVE vulnerabilities with related unmapped BDSAs by setting the remediation status to IGNORED and adding a message to describe why the vulnerability was remediated.

This new setting only applies to CVE vulnerabilities with a related BDSA vulnerability. If the CVE is mapped to a component version, but its related BDSA is not also mapped to that component version then the system may automatically remediate the CVE vulnerability based on the system setting.

The BDSA Auto Remediation feature can be enabled from the Admin > System Settings > BDSA Auto Remediation page.

New Rapid Scan properties added

The following properties have been added to the output of Rapid Scans:

- cwelds: List of Common Weakness Enumeration (CWE) IDs for this security vulnerability.
- shortTermUpgradeGuidance: Suggested component version to upgrade to as a short term course of action to address this vulnerability as it is the same major version as the one in use.
- longTermUpgradeGuidance: Suggested component version to upgrade to as a long term course of action. Taking this course of action might require major version number upgrade and must be more carefully planned.

Improved user permission evaluations performance

Improvements were made to user permission evaluations for most API requests. This should result in more consistent loading times including loading BOMs regardless of the user's role or permissions.

Updated Synopsysctl

Synopsysctl has been updated to 3.0.1 to add Black Duck 2022.4.0 installation support for sizes-gen03 deployment sizes.

Container versions

- blackducksoftware/blackduck-postgres:11-2.11
- blackducksoftware/blackduck-authentication:2022.4.1
- blackducksoftware/blackduck-webapp:2022.4.1
- blackducksoftware/blackduck-scan:2022.4.1
- blackducksoftware/blackduck-jobrunner:2022.4.1
- blackducksoftware/blackduck-cfssl:1.0.7
- blackducksoftware/blackduck-logstash:1.0.18
- blackducksoftware/blackduck-registration:2022.4.1
- blackducksoftware/blackduck-nginx:2.0.16

- blackducksoftware/blackduck-documentation:2022.4.1
- blackducksoftware/blackduck-upload-cache:1.0.23
- blackducksoftware/blackduck-redis:2022.4.1
- blackducksoftware/blackduck-bomengine:2022.4.1
- blackducksoftware/blackduck-matchengine:2022.4.1
- blackducksoftware/blackduck-webui:2022.4.1
- sigsynopsys/bdba-worker:2022.3.0
- blackducksoftware/rabbitmg:1.2.7

API Enhancements

For more details on new or changed API requests, please refer to the API doc available in Black Duck.

Performance Improvements for project endpoints

The following API project endpoints were found to be underperforming and have been optimized:

- | /api/projects/{ID}/versions/{ID}/compare/projects/{ID}/versions/ | {ID}/components
- /api/projects/{ID}/versions/{ID}/components

Fixed Issues in 2022.4.1

The following customer-reported issues were fixed in this release:

- (HUB-32395, HUB-33033). Fixed an issue where the modified declared license to matched component is sometimes not displayed on SPDX reports.
- (HUB-29532). Fixed an issue where Linux distro package matching was broken when the rootfs pathin
 an distro image was not starting at the root directory but at a subdirectory.
- (HUB-33947). Fixed an issue where the Security Risk was not updated when updating the Remediation Status from 'Affected Projects' page.
- (HUB-33551). Fixed an issue when uploading a bdio file with code location name as null, the request would fail with the status code 400 and throwing exception in background.
- (HUB-34065). Fixed SPDX 2.2 report format that was causing the following error in the SPDX validation tools:

```
The following warning(s) were raised: [object instance has properties which are not allowed by the schema: ["packageSupplier"] for {"pointer":"/packages/0"}
```

- (HUB-33616). Fixed an issue where the scan client would in some cases (when there are duplicated archive entries inside scanned archive), generate a BDIO with incorrect ids, which in turn could produce an error when the bdio file is stored to the database.
- (HUB-33915, HUB-33865). Fixed an issue where the scan upload API submitted the entire scan data as one message into RabbitMQ without chunking, causing a message size error.
- (HUB-24664). Fixed an issue where the registration container logs were showing attempted

communication over HTTP.

- (HUB-33579). Fixed an issue where the --matchConfidenceThreshold parameter was not functioning when used with the traditional scan.cli.
- (HUB-33311). Fixed an issue where the signature scanner could fail with the error code 74. A retry function was introduced to mitigate this error.

Announcements for Version 2021.4.0

New containers and changes to system requirements

In the 2021.6.0 release:

- A new container, blackduck-webui, will be added for improved Black Duck performance, better caching, and future scalability.
- The Rapid Scanning feature will be available to all Black Duck customers. This feature requires a new container, currently called blackduck-kb, which will manage connections to the Black Duck KnowledgeBase and cache KnowledgeBase results for short intervals.

The following will be the minimum hardware that will be needed to run a single instance of all containers. Note that memory requirements depend on the number of concurrent Rapid Scans you want to support.

- 7 CPUs
- 28.5 GB RAM for the minimum Redis configuration; 31.5 GB RAM for an optimal configuration providing higher availability for Redis-driven caching. This will support up to 100 concurrent Rapid Scans.

30 GB RAM for the minimum Redis configuration; 33 GB RAM for an optimal configuration providing higher availability for Redis-driven caching. This will support more than 150 Rapid Scans, however, the maximum number of supported Rapid Scans is still being determined.

- 250 GB of free disk space for the database and other Black Duck containers
- Commensurate space for database backups

The following is the minimum hardware that is needed to run Black Duck with Black Duck - Binary Analysis.

- 8 CPUs
- 32.5 GB RAM for the minimum Redis configuration; 35.5 GB RAM for an optimal configuration providing higher availability for Redis-driven caching. This will support up to 100 concurrent Rapid Scans.

34 GB RAM for the minimum Redis configuration; 37 GB RAM for an optimal configuration providing higher availability for Redis-driven caching. This will support more than 150 Rapid Scans, however, the maximum number of supported Rapid Scans is still being determined.

- 350 GB of free disk space for the database and other Black Duck containers
- Commensurate space for database backups

Note: An additional CPU, 2 GB RAM, and 100 GB of free disk space will be needed for every additional binaryscanner container.

Retention period for unmapped code locations

In the Black Duck 2021.6.0 release, the default retention period for unmapped code locations will be changing from 365 days to 30 days.

Deprecated APIs

The following endpoint has been deprecated and will be removed in a future release:

```
GET /api/scan/{scanId}/bom-entries
```

The following endpoint will be deprecated as of April 30, 2021:

```
GET /api/components/{componentId}/versions/{componentVersionId}/origins/
{originId}/direct-dependencies
```

New job implementation in 2021.6.0 release

In the Black Duck version 2021.6.0, the jobs subsystem is being replaced with a new implementation, which will cause the following job Rest API calls not to function.

■ GET /jobs/{jobID}

This call gets the job details for a specific job by ID. As of the Black Duck 2021.6.0 release, this call will return a 404 Not Found status code.

The following calls are out-of-service since Black Duck version 2020.2.0, returning a 404 Not Found status code, and will remain non-functional in Black Duck version 2021.6.0.

■ PUT /jobs/{jobID}

This call reschedules a job.

■ DELETE /jobs/{jobID}

This call terminates a job.

The functionality will be replaced with a new Job Rest API implementation which will be available in a future release.

Japanese language

The 2021.2.0 version of the UI, online help, and release notes has been localized to Japanese.

New and Changed Features in Version 2022.4.0

Spring Framework Update

Spring Framework has been updated to 5.3.18 to address the critical CVE-2022-22965 vulnerability.

New vulnerability metrics comparison

This new feature makes a change to a vulnerability's Overview page so that you can now see a side-by-side view of the metrics where applicable. When viewing a vulnerability that has both a BDSA and NVD record, you will see a graph in the Scores and Metrics section comparing both vulnerability types; BDSA and NVD. You can also alternate between CVSS v2 and CVSS v3.x to get more information.

Git repository SCM Integration - Phase 1

Black Duck 2022.4.0 is introducing a way to simplify onboarding of new projects for customers by leveraging integrations for management of repositories, branches, builds, and releases. Starting with Phase 1, we are adding a new SCM URL field to the Create Project modal and Project Settings page, and a SCM Branch field to the Project Version Settings page.

These fields are manually populated in this phase. However, in an upcoming Detect release, they will be automatically populated after scanning a git repository. Detect will automatically identify the associated git repository URL and branch and then send that information to Black Duck.

Please note that this feature is not enabled by default in Black Duck and must be activated by adding the following in your environment:

For Swarm users, add this to your docker-compose.yml webapp environment:

```
webapp:
    environment: {blackduck.scan.scm.enableIntegration: true}
```

For Kubernetes users, add this to your webapp container environment:

```
containers:
- env:
- name: blackduck.scan.scm.enableIntegration
   value: true
```

New Components tab for BDSA vulnerabilities

A new Components tab has been added to BDSA vulnerability records. This tab will allow you to see all known component versions affected by a particular BDSA vulnerability.

Enhanced Component dashboard materialized view query

All the queries relating to the SearchDashboardRefreshJob have been optimized for better performance. The LicenseDashboardRefreshJob is longer available and the view relating to it will be refreshed under SearchDashboardRefreshJob. This means the counts displayed in the License Management page will now be updated as SearchDashboardRefreshJob finishes.

NOTE: As a result of these changes, upgrading to Black Duck 2022.4.0 may take longer than usual due to the execution of migration scripts.

PostgreSQL 11 container migration

In Kubernetes and OpenShift deployments using the Synopsys-provided PostgreSQL container, the following persistent volume claim added in 2022.2.0 is no longer needed. It and its associated persistent volume may be safely deleted.

```
{{ .Release.Name }}-blackduck-postgres-tmp
```

Updated Java heap size allocation and new environment variable

In previous releases, Java was allowed to slowly increase its heap size up to <code>HUB_MAX_MEMORY</code>. Starting with Black Duck 2022.4.0, in order to take advantage of efficiencies and predictability, we will now preallocate the entire <code>HUB_MAX_MEMORY</code> on startup.

As part of this update, a new environment variable has been added: HUB_MIN_MEMORY. This variable will allow you to set the lower boundary for Java heap size.

By default and as the optimal setting, <code>HUB_MIN_MEMORY</code> is set equal to <code>HUB_MAX_MEMORY</code>, but can be set explicitly to a smaller amount (for example, 512m) to allow Java, once again, to acquire memory gradually starting from <code>HUB_MIN_MEMORY</code> to no more than <code>HUB_MAX_MEMORY</code>.

Limit Rapid Scan policy overrides to specific vulnerabilities

In previous Black Duck versions, Rapid Scan policy violations could be overridden by policy and component. However, if new vulnerabilities were subsequently found, existing overrides could suppress the violation, resulting in a false negative.

Now in Black Duck 2022.4.0, you can now override a specific vulnerability in rapid scans using the existing yaml upload mechanism.

The vulnerability Id is validated to match the expected format.

```
version: 1.0
policy:
   overrides:
    - policyName: policyA
    components:
    - name: component1
       version: version1
       vulnerabilities:
       - vulnerabilityId1
       - vulnerabilityId2
       - name: component2
       policyName: policyB
       components:
       - name: component3
```

New Rapid Scan vulnerability properties added

The following properties have been added to vulnerabilities in the output of Rapid Scans:

- publishedDate (Date value)
- vendorFixDate (Date value)
- workaround (String value)
- solution (String value)

New BDSA Automatic Remediation setting (Beta)

When the Black Duck Security Advisory (BDSA) team analyzes a CVE vulnerability, they check to see what component versions are affected by the vulnerability. Sometimes they find that the vulnerability applies to a different set of versions. This new feature will give you the ability to automatically ignore CVE vulnerabilities if the BDSA team has found that the vulnerability does not apply to that component version. This only affects vulnerabilities with the NEW status.

The BDSA Automatic Remediation is a **beta feature** and is **not** enabled by default. To enable this feature, the following environment variable must be set:

```
BDSA_AUTO_REMEDIATION=true
```

The BDSA Auto Remediation setting can then be changed on the Admin > System Settings > BDSA Auto Remediation page.

NOTE: Whenever the user saves the setting, the system checks and may update vulnerabilities for all projects. On large systems, this can take a long time and have an impact on Black Duck performance.

Updated Users & Groups management display

The look and feel of the Users and Groups tabs under Admin > Users & Groups have been updated to display more cleanly by breaking up the various sections (User/Group Details, Overall Roles, Project Groups, Projects, Users/User Groups) into their own individual pages making it easier to manage your users and groups.

New Component Condition rule for policies

A new component condition for Unconfirmed Snippets has been added. The new policy condition gives you the ability to create or edit a policy that allows you to trigger a policy violation for snippets that have not been reviewed.

New Software Bill of Materials (SBOM) Report CycloneDX v1.3 export format

You can now export the Software Bill of Materials report for your projects in CycloneDX v1.3 format. This can be done by viewing a project version, clicking the Reports tab, clicking the Create Report button, and then selecting CycloneDX v1.3 - JSON. For more information on CycloneDX v1.3, please visit the CycloneDX v1.3 reference page.

New Component Dependency Duplication Sensitivity system property

A new system property has been added to Black Duck to control the maximum number of nodes (matches) per component added to resulting dependency tree in package manager scan:

blackduck.match.limit.per.component

The default value of this system property is 10, thus the number of duplicated components in the tree can

not exceed the blackduck.match.limit.per.component value (match limit per component).

Supported browser versions

- Safari Version 15.4 (16613.1.17.1.13, 16613)
 - Safari versions 13.0 and below are no longer supported
- Chrome Version 100.0.4896.75 (Official Build) (x86_64)
 - Chrome versions 71 and below are no longer supported
- Firefox Version 99.0 (64-bit)
 - Firefox versions 71 and below are no longer supported
- Microsoft Edge Version 100.0.1185.36 (Official build) (64-bit)
 - · Microsoft Edge versions 78 and below are no longer supported

Container versions

- blackducksoftware/blackduck-postgres:11-2.11
- blackducksoftware/blackduck-authentication:2022.4.0
- blackducksoftware/blackduck-webapp:2022.4.0
- blackducksoftware/blackduck-scan:2022.4.0
- blackducksoftware/blackduck-jobrunner:2022.4.0
- blackducksoftware/blackduck-cfssl:1.0.7
- blackducksoftware/blackduck-logstash:1.0.18
- blackducksoftware/blackduck-registration:2022.4.0
- blackducksoftware/blackduck-nginx:2.0.14
- blackducksoftware/blackduck-documentation:2022.4.0
- blackducksoftware/blackduck-upload-cache:1.0.23
- blackducksoftware/blackduck-redis:2022.4.0
- blackducksoftware/blackduck-bomengine:2022.4.0
- blackducksoftware/blackduck-matchengine:2022.4.0
- blackducksoftware/blackduck-webui:2022.4.0
- sigsynopsys/bdba-worker:2021.12.2
- blackducksoftware/rabbitmg:1.2.7

API Enhancements

For more details on new or changed API requests, please refer to the API doc available in Black Duck.

Performance Improvements for project endpoints

The following API project endpoints were found to be underperforming and have been optimized:

- | /api/projects/{ID}/versions/{ID}/compare/projects/{ID}/versions/ | {ID}/components
- /api/projects/{ID}/versions/{ID}/components

Fixed Issues in 2022.4.0

The following customer-reported issues were fixed in this release:

- (HUB-33047). Fixed an issue where Null Pointer Exception errors occurring during the KbUpdateJob process could cause the job to progress very slowly or appear to be stuck.
- (HUB-32336). Renamed the Components filter on the BOM page to Component Versions to bring it in line with the actual functionality.
- (HUB-32316). Fixed an issue where the HUB_MAX_MEMORY environment variable to define maximum memory allocation pool for the JVM was left unset in docker registration container deployments.
- (HUB-32492). Fixed an issue where components with the MIT license could trigger a policy violation for "License Not Approved" and "License Unreviewed" in Rapid Scan, although MIT License is set as "Approved" in BlackDuck.
- (HUB-31839). Fixed an issue where the BDIO upload endpoint project and version values were not URL decoded.
- (HUB-32692, HUB-32672). Fixed an issue where if a component had multiple vulnerabilities, each
 with different vulnerability statuses, policy rules would not trigger a policy violation unless all the
 vulnerabilities for the component matched the selected policy rules.
- (HUB-31872). Fixed an issue where Rapid Scans did not validate the user permissions. If a scan finds
 a matching project version BOM but the user does not have permission the scan will run without
 project version or BOM component data.
- (HUB-33231). Fixed an issue where sorting scans by scan size on the Scans page was not displaying the list in the correct order.
- (HUB-33096). Fixed an issue where filtering by license family may not display modified KnowledgeBase licenses correctly.
- (HUB-30463). Fixed an issue where the golang.org/x/sys component was not displaying in the Hub UI KnowledgeBase search.
- (HUB-31891). Fixed an issue where searching for the "Apache HTTP Server" component would link to the debian component page.
- (HUB-28406). Fixed an issue where sometimes a different number of vulnerabilities would be shown on the Security Tab and the Details Tab in some OSS component and versions.
- (HUB-32883). Fixed an issue where the accessTokenValiditySeconds setting's Max-Age and Expires
 fields did not align with the expiry value of the JSON Web Token (JWT).
- (HUB-32313). Fixed a performance issue with the REST API /api/projects/<id>/versions/<id>/components endpoint when dealing with a high package manager scan data load.
- (HUB-32571). Fixed an issue with how the namespace of origin was displayed inconsistently in the component version Copyrights tab and Black Duck notice reports (and BOM Security tab).
- (HUB-32949). Fixed an issue where having a user directly assigned to a Project Group and the same
 user assigned to a User Group that's also assigned to the Project Group would result in multiple
 project groups being returned by the API, resulting in a Detect failure.
- (HUB-33132). Fixed an issue where the dependency-paths API was consuming large amount of service memory and paging to disk.

- (HUB-33155). Fixed an issue where refreshes of HUB registration could stall, causing the jobrunner to hold a lock much longer than it should potentially resulting in blocked queries.
- (HUB-32010). Fixed an issue where when navigating through the Project Groups hierarchy, clicking a
 project within a subgroup could return the user back to the root project group.
- (HUB-32977). Fixed an issue where mixed case tags were not triggering policy rules as expected.
- (HUB-33305). Fixed an indentation issue in the docker-compose.local-overrides.yml file.
- (HUB-27940). Fixed an issue when deploying to EKS, without a minimum CPU resource specified, the pod will be allocated .25 (250m) CPU core causing bomengine/rabbitmq to not work.
- (HUB-33455). Fixed an issue where the link to the Vulnerability Detail Page for CVE-2022-23395 would go to a 404 Not Found error page.
- (HUB-32256). Fixed an issue where submitting an empty value for the custom signature level would generate an incorrect error message.
- (HUB-32800). Fixed an issue where the matchengine could restart or jobs could hang in jobrunner during bitbake/yocto scans due to very large numbers of matches per component in dependency tree resulting in OutOfMemory exceptions. See the New Component Dependency Duplication Sensitivity system property item in the New and Changed Features section above for more details.
- (HUB-33349). Fixed an issue where the webapp container needed a persistent volume named "{ {
 .Release.Name } }-blackduck-webapp" by default where "Release.Name" is typically "hub" or
 another label chosen at deployment time. In addition, some customers may have configured a custom
 persistent volume name by configuring the persistent VolumeClaimName in the webapp
 values.yaml overrides. These configurations, the persistent volume and the persistent volume
 claim, are no longer necessary and can be safely deleted.
- (HUB-32678). Fixed an issue where the default IP scan was not supporting the scan.cli argument —
 matchConfidenceThreshold to filter matched components.
- (HUB-29532). Fixed an issue where Linux distro package matching was broken when the rootfs path
 in an distro image was not starting at the root directory but at a subdirectory.

New and Changed Features in Version 2022.2.2

Black Duck version 2022.2.2 is a maintenance release and contains no new or changed features. A fix was made to the online help to prevent a security vulnerability.

Container versions

- blackducksoftware/blackduck-postgres:11-2.8
- blackducksoftware/blackduck-authentication:2022.2.2
- blackducksoftware/blackduck-webapp:2022.2.2
- blackducksoftware/blackduck-scan:2022.2.2
- blackducksoftware/blackduck-jobrunner:2022.2.2
- blackducksoftware/blackduck-cfssl:1.0.6
- blackducksoftware/blackduck-logstash:1.0.16
- blackducksoftware/blackduck-registration:2022.2.2
- blackducksoftware/blackduck-nginx:2.0.12
- blackducksoftware/blackduck-documentation:2022.2.2
- blackducksoftware/blackduck-upload-cache:1.0.21
- blackducksoftware/blackduck-redis:2022.2.2
- blackducksoftware/blackduck-bomengine:2022.2.2
- blackducksoftware/blackduck-matchengine:2022.2.2
- blackducksoftware/blackduck-webui:2022.2.2
- sigsynopsys/bdba-worker:2021.12.2
- blackducksoftware/rabbitmg:1.2.7

API Enhancements

For more details on new or changed API requests, please refer to the API doc available in Black Duck.

Fixed Issues in 2022.2.2

The following customer-reported issues were fixed in this release:

(HUB-34065). Fixed SPDX 2.2 report format that was causing the following error in the SPDX validation tools:

The following warning(s) were raised: [object instance has properties which are not allowed by the schema: ["packageSupplier"] for {"pointer":"/packages/0"}

New and Changed Features in Version 2022.2.1

Updated Data Removal feature (Beta)

The data removal feature allows you to explore ways to automatically delete ProjectVersions according defined criteria. For users with version limits, disk space constraints or database bottlenecks, the buildup of obsolete versions can become problematic to either their process or to their system performance. This feature is helpful if you generate multiple ProjectVersions over time which become obsolete over time.

Added in Black Duck 2022.2.0, a new environment variable has been added:

- BLACKDUCK_AUTOMATIC_VERSION_REMOVAL_RELEASE_PHASES
 - Defines what ProjectVersion phases are applicable to the data removal process.
 - Release phases values are: Planning, Development, Released, Deprecated, Archived, and Prerelease
 - If not set, the default value is Development.
 - · Values are case insensitive.
 - Multiple release phases can be added with the phases delimited by comma.

Updated role assignment for Projects and Project Groups

You can now add users to Projects and Project Groups as a Project Viewer. When adding a user to a Project or Project Group, the role of Project Viewer is now automatically selected and serves as the default role. You can then add further roles to the user as needed.

Updated minimum scan interval configuration

Starting from Detect 7.13 and later, the Black Duck Hub scan setting for Minimum Scan Interval will be disabled. Minimum scan interval should be configured as a command argument through Detect as follows:

```
--detect.blackduck.signature.scanner.arguments='--min-scan-interval=\#\#' where \#\# is the time in hours.
```

Container versions

- blackducksoftware/blackduck-postgres:11-2.8
- blackducksoftware/blackduck-authentication:2022.2.1
- blackducksoftware/blackduck-webapp:2022.2.1
- blackducksoftware/blackduck-scan:2022.2.1
- blackducksoftware/blackduck-jobrunner:2022.2.1
- blackducksoftware/blackduck-cfssl:1.0.6

- blackducksoftware/blackduck-logstash:1.0.16
- blackducksoftware/blackduck-registration:2022.2.1
- blackducksoftware/blackduck-nginx:2.0.12
- blackducksoftware/blackduck-documentation:2022.2.1
- blackducksoftware/blackduck-upload-cache:1.0.21
- blackducksoftware/blackduck-redis:2022.2.1
- blackducksoftware/blackduck-bomengine:2022.2.1
- blackducksoftware/blackduck-matchengine:2022.2.1
- blackducksoftware/blackduck-webui:2022.2.1
- sigsynopsys/bdba-worker:2021.12.2
- blackducksoftware/rabbitmq:1.2.7

API Enhancements

For more details on new or changed API requests, please refer to the API doc available in Black Duck.

Fixed Issues in 2022.2.1

The following customer-reported issues were fixed in this release:

- (HUB-32540). Fixed a rare issue with the KbUpdateJob where a duplicate value insert could slow down or fail the job.
- (HUB-32544). Fixed a race condition issue where the KbUpdateJob tries to insert a version_bom_component already inserted by a scan.
- (HUB-33045). Fixed an issue where creating a policy rule specifically for Rapid Scans could cause all
 project versions to enter a re-computation state where the BOM's Status would change to
 "Processing".
- (HUB-32363 and HUB-33027). Fixed a possible race condition while unmapping code location for the following scenarios (without using --detect.project.codelocation.unmap=true):
 - Code location is rescanned and mapped to other project version.
 - Code location is manually unmapped from UI.
 - Code location is manually deleted from UI.
 - Code location is deleted by ScanPurgeJob.
- (HUB-33155). Fixed an issue where refreshes of HUB registration could stall, causing the jobrunner to hold a lock much longer than it should potentially resulting in blocked queries.
- (HUB-33132). Fixed an issue where the dependency-paths API was consuming large amount of service memory and paging to disk.
- (HUB-31212). Fixed an issue where members of one sub-project group could access all project groups and their tree.
- (HUB-33162). Fixed an issue where vulnerability results in Rapid Scans could display incorrect information when the highest priority Security Risk Ranking set does not match the vulnerability type (BDSA vs NVD) and the CVSS preference.
- (HUB-31756). Fixed an issue where the Project Viewer and Project Group Viewer roles were not

assignable to users added to Projects and Project Groups.

 (HUB-33047). Fixed an issue where Null Pointer Exception errors occurring during the KbUpdateJob process could cause the job to progress very slowly or appear to be stuck.

Announcements for Version 2022.2.0

Enhanced Signature Generation

Starting with Black Duck 2022.2.0, the Signature Scanner will default to generation of signatures on the client rather than the server.

If you are using the Blackduck hosted service or if you are using the Helm Charts or Docker Swarm 'yaml' files included in the release, this change will be seamless with no action is required on your part. There will not be any interruption to your service.

However, if you have customized your Helm Charts or use an override file, please refer to <u>Rebalancing</u> Guidance on our Community page for additional information to assist you with the transition.

Page Limit Maximums on API Requests

In an ongoing effort to better manage system resources, a maximum page limit has been introduced to certain API requests. The maximum page limit will be set to 1000 pages with the possibility of change in future Blackduck versions. See the API Enhancements section below for a list of the affected API requests in the 2022.2.0 version.

Deprecated APIs

With Blackduck 2022.2.0, the <code>/cpes/{cpeId}/variants</code> endpoint will be deprecated, to be replaced with <code>/cpes/{cpeId}/origins</code>. The <code>/cpes/{cpeId}/variants</code> will be removed in Blackduck 2022.4.0. The API link in the metadata for <code>/api/cpes</code> has also been updated to return <code>/api/cpes/{cpeId}/origins</code> instead of <code>/api/cpes/{cpeId}/variants</code>.

Upcoming Resource Guidance Changes

In the upcoming Black Duck 2022.4.0 release, the default resource settings will be updated and the recommended settings will increase for all scan volumes. The 2022.4.0 release will be accompanied by instructions on how to continue to use the existing settings.

Please note, the exact possible scan throughput will vary based on your scan size, type and composition. However, we used this breakdown in our internal testing to gather the information in the table below:

- 50% full signature scans
- 40% full package manager scans
- 10% developer package manager scans

File Organization Changes

In addition to the changes mentioned above, starting in 2022.4.0, the organization of resource override YAML files will change.

For Kubernetes, the organization of resource override YAML files in the Helm chart will change.

- The values folder will be renamed to sizes-gen01.
- The 4 previous t-shirt size files (small.yaml, etc.) will be moved to the new sizes-gen02 directory.
- A new directory, sizes-gen03, will contain a resource overrides file for each of the configurations named in the table below; they are named 10sph.yaml, 120sph.yaml, etc.

For Swarm, Black Duck will no longer allocate container resources directly in docker-compose.yml. Instead, resources will be specified in a separate overrides file. The current resource allocations will be moved to sizes-gen02/resources.yaml. For Black Duck 2022.4.0 and later, multiple possible allocations will be provided in the sizes-gen03 folder.

For both Kubernetes and Swarm, there will be 7 allocations based on load as measured in average scans per hour; if your anticipated load does not match one of the predefined allocations, round up. For example, if you anticipate 100 scans per hour, select sizes-gen03/120sph.yaml.

Resource Guidance & Container Scalability

These settings will apply to both Kubernetes and Swarm installations.

Name	Scans/Hour	Black Duck Services	PostgreSQL	Total
10sph	10	CPU: 10 core	CPU: 2 core	CPU: 12 core
		Memory: 29 GB	Memory: 8 GB	Memory: 37 GB
120sph	120	CPU: 12 core	CPU: 4 core	CPU: 16 core
		Memory: 46 GB	Memory: 16 GB	Memory: 62 GB
250sph	250	CPU: 16 core	CPU: 6 core	CPU: 22 core
		Memory: 106 GB	Memory: 24 GB	Memory: 131 GB
500sph	500	CPU: 27 core	CPU: 10 core	CPU: 37 core
		Memory: 208 GB	Memory: 40 GB	Memory: 249 GB
1000sph	1000	CPU: 47 core	CPU: 18 core	CPU: 65 core
		Memory: 408 GB	Memory: 72 GB	Memory: 480 GB
1500sph	1500	CPU: 66 core	CPU: 26 core	CPU: 92 core
		Memory: 593 GB	Memory: 104 GB	Memory: 697 GB
2000sph	2000	CPU: 66 core	CPU: 34 core	CPU: 100 core
		Memory: 593 GB	Memory: 136 GB	Memory: 729 GB

PostgreSQL Settings

Customers using the PostgreSQL container will need to set the values manually using ALTER SYSTEM, and changes to <code>shared_buffers</code> won't take effect until after the next time that PostgreSQL is restarted. These settings will apply to both Kubernetes and Swarm installations.

Name	Scans/Hour	PostgreSQL CPU/Memory	shared_buffers (MB)	effective_cache_size (MB)
10sph	10	CPU: 2 core	2654	3185
		Memory: 8 GB		
120sph	120	CPU: 4 core	5338	6406
		Memory: 16 GB		
250sph	250	CPU: 6 core	8018	9622
		Memory: 24 GB		
500sph	500	CPU: 10 core	13377	16053
		Memory: 40 GB		
1000sph	1000	CPU: 18 core	24129	28955
		Memory: 72 GB		
1500sph	1500	CPU: 26 core	34880	41857
		Memory: 104 GB		
2000sph	2000	CPU: 34 core	45600	54720
		Memory: 136 GB		

Japanese language

The 2021.10.0 version of the UI, online help, and release notes has been localized to Japanese.

Simplified Chinese language

The 2021.10.0 version of the UI, online help, and release notes has been localized to Simplified Chinese.

New and Changed Features in Version 2022.2.0

Logstash Update

In order to address the <u>CVE-2021-44832</u> vulnerability, the Logstash image used in Black Duck has been upgraded to 7.16.3 which uses Log4j2 version 2.17.1.

Enhanced Signature Generation

As mentioned in the Announcements, the Signature Scanner will default to generation of signatures on the client rather than the server.

If you are using the Blackduck hosted service or if you are using the Helm Charts or Docker Swarm 'yaml' files included in the release, this change will be seamless and no manual action is required. There will not be any interruption to your service.

However, if you have customized your Helm Charts or use an override file, please refer to our <u>Rebalancing</u>

Guidance article on Community for additional information to assist you with the transition.

You can also find more information regarding Monitoring Black Duck using Prometheus and Grafana on Community.

Rapid Scan Enhancements

The same endpoints are used but a new header was added to accept the rapid scan mode. New HTTP header is named 'X-BD-RAPID-SCAN-MODE' and accepts the following values:

- ALL: The default operation. It will evaluate policy rules that are RAPID or (RAPID and FULL). When
 the header is null this is the default.
- BOM_COMPARE: Will evaluate all policy rules like ALL, but will now evaluate differently based on the type of policy rule modes. When the policy rule is (RAPID and FULL) it will behave like BOM_COMPARE_STRICT but if the the policy rule is only (RAPID) it will behave like ALL. Policies that are only are RAPID will have a null policy status in the results.
- BOM_COMPARE_STRICT: Will only evaluate policy rules that are (RAPID and FULL). All policy rules found in the positive result will have statuses of NEW or RESOLVED. Policy violations are compared to the existing project version BOM. If the policy violation was already known and visible in the BOM (active or overridden) it is not part of the rapid scan positive result, it will still be part of the full result following existing restrictions.

In order to run either of the BOM_COMPARE modes there must be an existing project version in HUB.

PostgreSQL 11 Container Migration

The CentOS PostgreSQL 9.6 container has now been replaced by the Blackduck PostgreSQL 11 container. The new blackduck-postgres-upgrader container will migrate the database from PostgreSQL 9.6 to PostgreSQL 11 and will exit upon completion.

Customers with non-core PG extensions are STRONGLY encouraged to uninstall them before migrating and reinstall them after the migration completes successfully; otherwise, the migration is likely to fail.

Customers with replication set up will need to follow the instructions in the-pg_upgrade documentation
BEFORE they migrate. If the preparations described there are not made, the migration will likely succeed, but the replication setup will break.

IMPORTANT: Before starting the migration:

- Ensure that you have an extra 10% disk space to avoid unexpected issues arising from disk usage due to the data copying of system catalogs.
- Review root directory space and volume mounts to avoid running out of disk space as this can cause Linux system disruptions.

Updating to 2022.2.0 with synopsysctl will perform the following tasks:

- Stop the Black Duck instance
- Run a database migration job for users of the Synopsys-supplied PG container
- Update and restart the instance

For Kubernetes and OpenShift users:

- The migration is performed by a one-time job:
 - · Stop Black Duck; e.g.,

```
kubectl scale --replicas=0 -n <your_namespace> deployments --selector
app=blackduck
```

· Run the upgrade job; e.g.,

```
helm upgrade <your_deployment_name> . -n <your_namespace> <your_
normal_helm_options> --set status=Stopped --set
runPostgresMigration=true
```

- Restart Black Duck as normal with helm upgrade.
- This migration replaces the use of a CentOS PostgreSQL container with a Synopsys-provided container. Also, the synopsys-init container is replaced with the blackduck-postgreswaiter container.
- On plain Kubernetes, the container of the upgrade job will run as root. However, the only requirement is that the job runs as the same UID as the owner of the PostgreSQL data volume.
- On OpenShift, the upgrade job assumes that it will run with the same UID as the owner of the PostgreSQL data volume.

For Swarm users:

- The migration is completely automatic; no extra actions are needed beyond those for a standard Black Duck upgrade.
- The blackduck-postgres-upgrader container MUST run as root in order to make the layout and UID changes described above.
- On subsequent Black Duck restarts, blackduck-postgres-upgrader will determine that no migration is needed and immediately exit.
- OPTIONAL: After a successful migration, the blackduck-postgres-upgrader container no longer needs to run as root.

Updated Security Risk Ranking

Based on general industry trend, the default security risk ranking now uses CVSS 3.0 scores as the primary score metric along with BDSA to increase vulnerability scoring accuracy.

The new default ranking is:

- BDSA (CVSS v3.x)
- NVD (CVSS v3.x)
- BDSA (CVSS v2)
- NVD (CVSS v2)

This update will only change the ranking for new installs. Any upgrades to existing instances should maintain whatever ranking order was previously set.

Version Detail Component Report Enhancement

A new **Component Link** column has been added to the Version Detail Component Report. This column will contain the component's URL as displayed when viewing the component's details page. This report is generated by selecting the desired project on the Dashboard, selecting a version, clicking the Reports tab, clicking the Create button, and then selecting Version Details Report. In the following pop-up, ensure the Component checkbox is checked to generate the components report which includes the new Component Link column.

Vulnerability Warning Display Enhancement

When viewing component vulnerabilities in your projects, Black Duck will now warn you if the vulnerability in question has a linked BDSA not associated with the version of the component used by this project version. Viewing the specified vulnerability will display a message stating one of the following messages.

In the case where a BDSA vulnerability does not have an associated NVD record:

The Black Duck Security Advisory (BDSA) team mapped <vulnerability ID> to this component version, but it was not included in the National Vulnerability Database (NVD)'s associated record.

In the case where a NVD vulnerability does not have an associated BDSA record:

The National Vulnerability Database (NVD) mapped <vulnerability ID> to this component version, but the Black Duck Security Advisory team has determined that it is not affected.

Please consult the Black Duck help documentation for more details on BDSA vulnerabilities.

Jobrunner Heap and CPU based throttling

Starting in Blackduck 2022.2.0, jobrunner containers will monitor their heap and CPU usage and can reduce their workload based on the current resource usage. For example, if the heap usage surpasses 90%, the jobrunner can pause itself until the memory resources have recovered. When resources become available, the jobrunner will then increase its workload in proportion to available resources.

If the jobrunner pauses itself, it will be displayed on the Admin > Diagnostics > System Information > jobruntime page. You will see an entry such as:

```
1 Active job runner endpoint(s):
docker-swarm_jobrunner_1.docker-warm_default/58993e70a84c
(172.23.0.15), paused=true
```

The "paused=true" indicates that this jobrunner is not taking any more work as a result of resource constraints. Once the resource utilization recovers, the entry will change to paused=false and the jobrunner will start to take on new work.

Ignored Snippets in the Source Report

You can now configure your environment to have ignored snippets included in your Source report. This can be done by setting the environment variable <code>INCLUDE_IGNORED_COMPONENTS_IN_REPORT=TRUE</code>.

Component Search Version Count Enhancement

You will now be able to see how many versions a particular component has when searching for

components to add to your projects. The count will be dynamically displayed in the search results as you type the component name.

Security Vulnerability Remediation Enhancement

The process to remediate security vulnerabilities has been clarified to prevent confusion when attempting to change the remediation status on projects. When viewing a security vulnerability in a project, you may see rows that are hashed out and cannot be selected for remediation. This is due to the project having a linked type of security vulnerability record, either BDSA or CVE. If that vulnerability record is not prioritized in the Security Risk Ranking, a Remediation Plan cannot be undertaken for that project. Switching to the prioritized security vulnerability record will allow you to update the Remediation Plan for that project.

Project Version Cloning Enhancement

You now have the ability to include deep license data when cloning project versions. This can be done by selecting a project on your Dashboard and clicking the Settings tab when viewing the project's versions.

Search by Project Tags

You now have the ability to search and select projects by tags on the Find page. This allows the creation of saved searches for project grouped by tag - supporting dashboards for projects which could be in a common application identified by tag.

New Vulnerability Condition Rule for Policies

A new policy condition for Vulnerability IDs has been added. The new policy condition gives you the ability to create or edit a policy that allows you to target specific vulnerability (CVE or BDSA) IDs to flag components.

New Software Bill of Materials (SBOM) Report SPDX Format

You can now export the Software Bill of Materials report for your projects in SPDX format. This can be done by viewing a project version, clicking the Reports tab, and then clicking the Create Report button. We currently support SPDX 2.2 with plans to support other formats in later Blackduck versions.

Enhanced Signature Scanning Request Volume Management

In an effort to better manage higher request volumes that can occur for Enhanced Signature Scanning over a specific period of time, scan services will now return a HTTP 429 (TOO MANY REQUESTS) error that will be handled by the client if the scan services are at maximum operating limit. The client will then retry in increments of 30 seconds for 10 minutes before declaring that the scan has failed.

New Sorting Option on the Find Page

Projects can now be sorted by Project Group on the Find page, making it easier to search for projects that are assigned to specific project groups within your organization.

New projectGroupMembership filter for /api/search/project-versions

Using this filter will return all project versions that are descendant of the given project group and match conditions specified in the other filters. The projectGroupMembership filter will only return project groups to which the user has access. An usage example being

/api/search/projectversions?filter=projectGroupMembership:PG~{projectGroupId).

Report Database Enhancement

Added a new view has been added to the reporting schema:

reporting.scan_view

Secured Communication Between Blackduck and Identity Provider (IdP)

Blackduck will now create a self signed certificate with 5 years of validity to sign SAML authentication requests. The administrator can configure whether requests require to be signed or not by going to Admin > System Settings > User Authentication, selecting SAML in the **External Authentication** section, and then checking the **Send Signed Authentication Request** checkbox.

The default setting for this option is unchecked or not required. When enabled, a link to download the Blackduck public certificate will be made available and should be distributed to your users for their IdPs to verify authentication requests.

Assigning Unmatched Components to Known Components

It is now possible to assign unmatched components found during a BOM scan to a known component.

New Rapid Scan Component Dependency Tree

We will now show the dependency tree for all instances of the vulnerable component in the project in Rapid Scans outputs. This will allow you to clearly see how that component is being referenced by other referenced components or by sub-projects, etc. An example Rapid Scan output for the jackson-core component with three parent dependencies:

Updated Project Group Role Names

The name for roles associated to project groups have been updated by removing the "project groups" wording. The roles' functionality have not been changed by this update. See the list below for how the roles have been updated.

- Project Group Manager → Project Manager
- Project Group Security Manager → Security Manager
- Project Group BOM Annotator → BOM Annotator

- Project Group BOM Manager → BOM Manager
- Project Group Code Scanner → Project Code Scanner
- Project Group Policy Violation Reviewer → Policy Violation Reviewer
- Project Group Viewer → Project Viewer

Project and Project Group Management Enhancements

You can now more easily add several users and project groups to projects and project groups. Dropdown menus have been enhanced to allow multiple selections in a single add user or project group interaction.

Logstash Container Memory Increase

Due to potential crashing or restarts caused by out of memory issues, we have increased the memory allocated to the Logstash container from 1024M to 2560M. This should result in fewer webapp interruptions, impacting your operations.

Project Group Deletion Enhancement

It is now no longer possible to delete a project group if it is referred to in any existing policy rule expression.

Added new extensions when searching for strings

The following extensions have been added to the list of extensions we allow to search for strings to maintain extension compatibility with FLLD/FLCD scanning in the KnowledgeBase.

- pkginfo
- properties
- pc

Supported browser versions

- Safari Version 15.0 (16612.1.29.41.4, 16612)
 - Safari versions 13.0 and below are no longer supported
- Chrome Version 94.0.4606.71 (Official Build) (x86_64)
 - Chrome versions 71 and below are no longer supported
- Firefox Version 92.0.1 (64-bit)
 - Firefox versions 71 and below are no longer supported
- Microsoft Edge Version 94.0.992.38 (Official build) (64-bit)
 - Microsoft Edge versions 78 and below are no longer supported

- blackducksoftware/blackduck-postgres:11-2.7
- blackducksoftware/blackduck-authentication:2022.2.0
- blackducksoftware/blackduck-webapp:2022.2.0
- blackducksoftware/blackduck-scan:2022.2.0
- blackducksoftware/blackduck-jobrunner:2022.2.0
- blackducksoftware/blackduck-cfssl:1.0.5

- blackducksoftware/blackduck-logstash:1.0.16
- blackducksoftware/blackduck-registration:2022.2.0
- blackducksoftware/blackduck-nginx:2.0.12
- blackducksoftware/blackduck-documentation:2022.2.0
- blackducksoftware/blackduck-upload-cache:1.0.21
- blackducksoftware/blackduck-redis:2022.2.0
- blackducksoftware/blackduck-bomengine:2022.2.0
- blackducksoftware/blackduck-matchengine:2022.2.0
- blackducksoftware/blackduck-webui:2022.2.0
- sigsynopsys/bdba-worker:2021.12.1
- blackducksoftware/rabbitmg:1.2.6

API Enhancements

For more details on new or changed API requests, please refer to the API doc available in Blackduck.

New Signed Authentication Request Field

A new <code>sendSignedAuthenticationRequest</code> field has been added to the API request below to determine whether Blackduck should send signed authentication request to IdP. The default value for this field is FALSE. The Meta link to download certificate will be available only if the Signed Authentication Request configuration is set to TRUE.

■ GET, POST /api/sso/configuration

New /api/active-users Endpoint

This new query will return all the user last-login information for users who have logged into the system since the provided date. This query takes the same sinceDays query parameter as dormant-users.

New Project Version Report Endpoints

The following public endpoints have been added to support all version reports regardless of type (Notices File, Version Report, Vulnerability Remediation, Vulnerability Status, Vulnerability Update, Software Bill of Materials Report):

- GET /api/projects/{projectId}/versions/{projectVersionId}/reports
- GET /api/projects/{projectId}/versions/{projectVersionId}/reports/
 {reportId}
- DELETE /api/projects/{projectId}/versions/{projectVersionId}/reports/
 {reportId}
- GET /api/projects/{projectId}/versions/{projectVersionId}/reports/
 {reportId}/contents
- GET /api/projects/{projectId}/versions/{projectVersionId}/reports/
 {reportId}/download

New Policy Rules Public Endpoint

A new public API request has been added to retrieve active policy rules:

■ GET /api/projects/{projectId}/versions/{projectVersionId}/policy-rules

New /api/cpes/{cpeld}/origins Endpoint

With Blackduck 2022.2.0, the /api/cpes/{cpeId}/variants endpoint will be deprecated, to be replaced with /api/cpes/{cpeId}/origins. The /api/cpes/{cpeId}/variants will be removed in Blackduck 2022.4.0. The API link in the metadata for /api/cpes has also been updated to return /api/cpes/{cpeId}/origins instead of /api/cpes/{cpeId}/variants.

Page Limit Maximums on API Requests

The following API requests now have a page limit maximum in order to better moderate system resource usage. The limit is currently set to 1000 items.

- GET /api/projects/<id>/versions/<id>/components
- GET /api/projects/<id>/versions/<id>/vulnerable-bom-components
- GET /api/codelocations
- GET /api/projects/<id>/versions
- GET /api/projects
- GET /api/users

New Sorting filter for API Endpoints

A new sort option called parentProjectGroupName is available for the following API endpoints. This will allow for sorting project versions by parent project group name.

- /api/search/project-versions
- /api/watched-projects
- | /api/dashboards/users/{id}/saved-searches/{id}

New GET /api/scan-readiness API Endpoint

A new public API endpoint has been added which provides the readiness state of all scan containers.

■ GET /api/scan-readiness

Sample response:

- In a multiple scan replica environment, if all scan container replicas are healthy, the aggregated state will be ACCEPTING. The system can accept and process new scans without issue.
- In a multiple scan replica environment, if one scan container is not healthy and other replicas are healthy the aggregated state will be PARTIAL. In this state, the system is becoming overloaded. Scan performance may be degraded. Scans have a slight chance of timing out or failing.
- In a multiple scan replica environment, if all the scan containers are not healthy, the aggregated state will be DEGRADED. The system is overloaded cannot accept new scans. If set to reject, new scan requests will not be accepted and a HTTP 429 return code will be sent back.
- If a container goes down, its entry will be removed after 5 minutes (interval which is configurable).

Updated Response for GET /api/codelocations/{codeLocationId}/scan-summaries

The scanType value found in the API response generated for the /api/codelocations/ {codeLocationId}/scan-summaries will now split into different types to avoid ambiguity. The new values now include:

- PACKAGE MANAGER
- BINARY
- BOM IMPORT
- SIGNATURE

Traditional scans will still use BDIO for scanType value.

Please note that this change was introduced in Black Duck 2021.8.0.

Fixed Issues in 2022.2.0

The following customer-reported issues were fixed in this release:

- (HUB-31267). Fixed an issue where users without any global roles had access to all projects via scans page or via the project URL directly. Users without scan permissions will now not see the Upload Scans button on the projects/.../versions/.../codelocations screen.
- (HUB-31734). Fixed an issue where the filters on the Components page did not work for project-level users.
- (HUB-31993). Fixed an issue where scans could fail if the uploaded BDIO file had a null value for version/release. Scans will no longer fail if the version/release value is missing.
- (HUB-31964). Fixed an issue where the some reports could not be generated due to VersionReportJob failing for a project-version as a result of JDBC query having too many parameters.
- (HUB-30479, HUB-31842). Fixed an issue where the remediation of vulnerabilities with both a BDSA and a CVE record did not work when the non-prioritized vulnerability record was used for remediation.
 In order to remediate a vulnerability, the prioritized vulnerability record type must be used.
- (HUB-31207). Fixed an issue where remediating a vulnerability under an archived project did not update the security risk counts once applied. Users cannot remediate vulnerabilities of archived project-versions, so now the "update" button for vulnerability remediations will be greyed-out when the project-version is archived.
- (HUB-32029). Fixed an issue where some "ignored" components could become "unignored" after a rescan.

- (HUB-31768). Fixed an issue when generating the notices file, copyrights based on ignored snippets were included erroneously.
- (HUB-32296, HUB-32255). Fixed an issue where REST API GET /api/vulnerabilities/CVE-2021-44228/affected-projects returns 0 items. Also note that the affected-projects count in both the search results and endpoint will now also count components with the related vulnerability.
- (HUB-31801, HUB-32424). Fixed an issue where the Refresh button for copyrights was appearing to the Super User role. This functionality will now only appear to roles who have the permission to update copyrights.
- (HUB-32692). Fixed an issue where if a component had multiple vulnerabilities, each with different vulnerability statuses, policy rules would not trigger a policy violation unless all vulnerabilities for the component matched the selected policy rules.
- (HUB-32357). Fixed an issue with the KnowledgeBase activity jobs that process KB Updates for components, component versions, licenses, NVD vulnerabilities, and BDSA vulnerabilities. Previously in the event of any errors/issues it would fall back to processing singular updates across all applicable project versions. This has the potential to create a lot of churn and slow down the KB Update jobs.
- (HUB-32543). Fixed an issue where the Project Manager and Project Group Manager roles could
 override policies and remediate vulnerabilities if the setting are turned off for the Project Manager role
 by assigning those roles. The security roles can now only be assigned by Project Managers with those
 permissions or super users.
- (HUB-31129). Fixed an issue where project versions reports in the Hub (for example the Vulnerability Detail report) would print out a URL for the vulnerabilities with CVEs containing a BDSA record if the component has a BDSA record as well. The vulnerability reports will now not print the CVE link with the BDSA number appended.
- (HUB-31044). Fixed an issue where setting the policy using the API with an incorrect custom field ID value would not display the policy screen correctly afterwards.
- (HUB-31753). Fixed an issue where the CollectScanStatsJob job could take longer than expected to compete, leading to unnecessary database bloat.
- (HUB-31663). Fixed an issue where the QuartzSearchDashboardRefreshJob could get into a condition where it tried to schedule multiple instances of this job potentially causing a large amount of blocked queries to the database.
- (HUB-31862). Fixed a missing translation for BOM Annotator Role in the Japanese localization.
- (HUB-31208). Fixed an issue where the IBM COS SDK For Java 2.10.0 component showed as vulnerable in the BOM and Component Version Security Tab, but Component Version page showed no vulnerabilities.
- (HUB-31735). Fixed an issue with snippet record discrepancies between the report (source.csv) and the Source page. The INCLUDE_IGNORED_COMPONENTS_IN_REPORT environment variable will now also drive if ignored snippets are included in a report.
- (HUB-31566). Fixed an issue where services could experience database connection errors due to job over-scheduling, out-of-memory issues, and/or long-running jobs.
- (HUB-31997). Corrected the vulnerability information for the json-schema v0.3.0 component.
- (HUB-32527). Fixed an issue when creating a Notices File Report, the following modal would display
 the incorrect report type name.
- (HUB-31750). Fixed broken links found on the BDSA-2021-0395 page.

- (HUB-31976). Fixed an issue where a user with 'Super User' role was unable to manage scans within the project version scans page.
- (HUB-32566). Fixed an issue where the user was unable to map a file to Apache Pulsar component.
- (HUB-31201). Fixed an issue where a user could not be assigned a user to a project (group) with only the project (group) viewer role.
- (HUB-31251). Fixed an issue where deleting a custom field option could break policy APIs.
- (HUB-29676, HUB-32912). Fixed an issue where some component versions could not be selected from the Add/Edit Component dialog box.
- (HUB-30847). Fixed an issue when the webapp container was run as a non root user, a Permission denied error was generated on the webapp-logstash pod which caused it to crash.
- (HUB-31375). Fixed an issue where the values of 'Last Updated' on Project Overview and 'Updated' on Find > Projects did not match.
- (HUB-30004). Fixed a permission issue in OpenShift environments where successful binary scans using Detect could produce blank BOMs on HUB.
- (HUB-32159). Fixed an issue where submitting an empty value for the custom signature level would generate an incorrect error message.
- (HUB-32142). Fixed an issue where RabbitMQ could fail to install on Openshift as a result of missing permissions.
- (HUB-32216). Fixed an issue when a user would try to override a policy violation for the component and the specific version then tried to undo it for the component version, nothing would happen.
- (HUB-32312). Fixed an issue where the KBUpdateWorkflow job Component Version Update would saturate and run out of memory, failing to advance the timestamp.
- (HUB-31916). Fixed an issue where the Project settings update API would not appear to take effect until the UI page was refreshed.
- (HUB-30088). Fixed an issue whereby the logout page did not appear when logging out of a SSO account.
- (HUB-32442). Fixed an issue where the API query used to retrieve dependency paths was taking significantly longer than expected to complete.
- (HUB-32538, HUB-32541). Fixed an issue where the kbUpdateJob could fail and fall back to granular updates which would take significantly longer to complete.
- (HUB-32708). Removed a statistics query introduced in Black Duck 2021.10.0 which was taking a long time to execute, causing overall slowness on Azure systems running PostgreSQL 11. This has been raised with Microsoft support, who are investigating the problem. Other installations are not affected by this issue.
- (HUB-32364, HUB-31606). Fixed an issue where the scans page could freeze and become unresponsive if there were more than 15 scans in the table and the user attempted to bulk delete them.
- (HUB-32602). Fixed an issue where the ScanPurgeJob process could erroneously cause the current scan status for package manager scans done via the IP code path to be changed to FAILED.
- (HUB-31122). Fixed an issue where sometimes scans would get skipped in the bomengine due to the ScanPurgeJob process running in the background.
- (HUB-30882). Fixed an issue where the Target Date/Actual Date of vulnerability remediation in the

Report would become 1 day before than the input date due to timezone conversion.

- (HUB-32434). Fixed an issue where clicking the bell icon to show all notifications and then clicking on a project name that had generated a notification would generate an error.
- (HUB-32027). Fixed an incorrect translation for Transitive Dependency Binary for the Japanese localization.
- (HUB-30788). Added new endpoints to support all version reports regardless of types. See API Enhancements section above for additional details.
- (HUB-32843). Fixed a missing translation for "Snippets" in "Components" tab of the project version page for the Japanese localization.
- (HUB-31964). Fixed an issue where some reports could not be generated due to VersionReportJob failing for a project-version as a result of JDBC having too many parameters.
- (HUB-32393). Fixed an issue where if a snippet match was present in the BOM, the upper view would sometimes not be populated with Security/License/Operational risks if the results were filtered.
- (HUB-32604). Fixed an issue when the environment variable BLACKDUCK_CORS_ALLOWED_ ORIGINS PROP NAME was set as a wildcard, the CORS functionality would not work.

Announcements for Version 2021.10.3

Security Advisory for Apache Log4J2 (CVE-2021-45046 and CVE-2021-45105)

The Apache Organization released a new version (2.17.0) of the Log4j2 component, which addresses an additional vulnerability not fixed in versions 2.15.0 and 2.16.0.

CVE-2021-45046 allows attackers with control over Thread Context Map (MDC) input data when the logging configuration uses a non-default Pattern Layout with either a Context Lookup or a Thread Context Map pattern to craft malicious input data using a JNDI Lookup pattern resulting in a denial of service (DOS) attack.

<u>CVE-2021-45105</u> allows attackers with control over Thread Context Map (MDC) input data to craft malicious input data that contains a recursive lookup, resulting in a StackOverflowError that will terminate the process resulting in a denial of service (DOS) attack.

For more information, see Apache's Log4j Security Vulnerabilities page.

As stated with the Black Duck 2021.10.2 version, we believe that there is limited exposure to Synopsys' products, services and systems. To the extent we have had exposure, we have remediated or are in the process of remediating the situation. Please continue monitoring our community page for further updates.

New and Changed Features in Version 2021.10.3

Log4j Update

The Apache Log4j 2 Java library has been updated to 2.17.0 to address the critical CVE-2021-45046 and CVE-2021-45105 vulnerabilities.

Logstash Update

The Logstash image used in Black Duck has been upgraded to 7.16.2 which uses Log4j2 version 2.17.0.

- blackducksoftware/blackduck-postgres:9.6-1.4
- blackducksoftware/blackduck-authentication:2021.10.3
- blackducksoftware/blackduck-webapp:2021.10.3

- blackducksoftware/blackduck-scan:2021.10.3
- blackducksoftware/blackduck-jobrunner:2021.10.3
- blackducksoftware/blackduck-cfssl:1.0.4
- blackducksoftware/blackduck-logstash:1.0.15
- blackducksoftware/blackduck-registration:2021.10.3
- blackducksoftware/blackduck-nginx:2.0.9
- blackducksoftware/blackduck-documentation:2021.10.3
- blackducksoftware/blackduck-upload-cache:1.0.19
- blackducksoftware/blackduck-redis:2021.10.3
- blackducksoftware/blackduck-bomengine:2021.10.3
- blackducksoftware/blackduck-matchengine:2021.10.3
- blackducksoftware/blackduck-webui:2021.10.3
- sigsynopsys/bdba-worker:2021.9.2
- blackducksoftware/rabbitmg:1.2.5

Fixed Issues in 2021.10.3

The following issues were fixed in this release:

- (HUB-32233). Upgraded Log4j to version 2.17.0 in response to CVE-2021-45046 and CVE-2021-45105.
- (HUB-32295). Updated Bitnami Logstash to 7.16.2 version with Log4j 2.17.0.

Announcements for Version 2021.10.2

Security Advisory for Apache Log4J2 (CVE-2021-44228)

Synopsys is aware of the security issue relating to the open-source Apache Log4j 2 Java library dubbed Log4Shell (or LogJam) which was disclosed publicly via the project's GitHub on December 9, 2021. The vulnerability allows for unauthenticated remote code execution and impacts Apache Log4j 2 versions 2.0 to 2.14.1. For more information, see the official CVE posting.

Based on what we know at this time, we believe that there is limited exposure to Synopsys' products, services and systems. To the extent we have had exposure, we have remediated or are in the process of remediating the situation. Please continue monitoring our <u>community page</u> for further updates.

See also: https://www.synopsys.com/blogs/software-security/zero-day-exploit-log4j-analysis/

New and Changed Features in Version 2021.10.2

Log4j Update

The Apache Log4j 2 Java library has been updated to 2.15.0 to address the critical CVE-2021-44228 vulnerability.

Container versions

- blackducksoftware/blackduck-postgres:9.6-1.4
- blackducksoftware/blackduck-authentication:2021.10.2
- blackducksoftware/blackduck-webapp:2021.10.2
- blackducksoftware/blackduck-scan:2021.10.2
- blackducksoftware/blackduck-jobrunner:2021.10.2
- blackducksoftware/blackduck-cfssl:1.0.4
- blackducksoftware/blackduck-logstash:1.0.13
- blackducksoftware/blackduck-registration:2021.10.2
- blackducksoftware/blackduck-nginx:2.0.9
- blackducksoftware/blackduck-documentation:2021.10.2
- blackducksoftware/blackduck-upload-cache: 1.0.19
- blackducksoftware/blackduck-redis:2021.10.2
- blackducksoftware/blackduck-bomengine:2021.10.2
- blackducksoftware/blackduck-matchengine:2021.10.2
- blackducksoftware/blackduck-webui:2021.10.2
- sigsynopsys/bdba-worker:2021.9.2
- blackducksoftware/rabbitmg:1.2.5

Fixed Issues in 2021.10.2

The following issue wasfixed in this release:

(HUB-32174). Upgraded Log4j to version 2.15.0 in response to CVE-2021-44228.

New and Changed Features in Version 2021.10.1

RestResponseErrorHandler Improvement

RestResponseErrorHandle now more gracefully accommodates unexpected responses from the KnowledgeBase and other servers within the network to improve the reliability of Black Duck features.

Container versions

- blackducksoftware/blackduck-postgres:9.6-1.4
- blackducksoftware/blackduck-authentication:2021.10.1
- blackducksoftware/blackduck-webapp:2021.10.1
- blackducksoftware/blackduck-scan:2021.10.1
- blackducksoftware/blackduck-jobrunner:2021.10.1
- blackducksoftware/blackduck-cfssl:1.0.4
- blackducksoftware/blackduck-logstash:1.0.11
- blackducksoftware/blackduck-registration:2021.10.1
- blackducksoftware/blackduck-nginx:2.0.9
- blackducksoftware/blackduck-documentation:2021.10.1
- blackducksoftware/blackduck-upload-cache: 1.0.19
- blackducksoftware/blackduck-redis:2021.10.1
- blackducksoftware/blackduck-bomengine:2021.10.1
- blackducksoftware/blackduck-matchengine:2021.10.1
- blackducksoftware/blackduck-webui:2021.10.1
- sigsynopsys/bdba-worker:2021.9.1
- blackducksoftware/rabbitmg:1.2.5

Fixed Issues in 2021.10.1

The following customer-reported issues were fixed in this release:

- (HUB-31129). Fixed an issue where project versions reports in the Hub (for example the Vulnerability Detail report) would print out a URL for the vulnerabilities with CVEs containing a BDSA record if the component has a BDSA record as well. The vulnerability reports will now not print the CVE link with the BDSA number appended.
- (HUB-31293). Fixed an issue where Python transitive dependencies were changed to direct dependencies after upgrading to 2021.8.x.
- (HUB-31764). Fixed an issue causing Null Pointer Exceptions during BOM computation when the remediation status of a vulnerability was updated.
- (HUB-30004). Fixed a permission issue in OpenShift environments where successful binary scans using Detect could produce blank BOMs on HUB.
- (HUB-31879). Fixed an issue where scans could get stuck during the building bom phase. See the RestResponseErrorHandler improvement in the New and Changed Features section above for more details.
- (HUB-31896). Fixed an issue where remediation updates to BOM vulnerabilities via public api did not persist after re-scan.
- (HUB-31753). Fixed an issue where the CollectScanStatsJob job could take longer than expected to compete, leading to unnecessary database bloat.
- (HUB-31663). Fixed an issue where the QuartzSearchDashboardRefreshJob could get into a condition where it tried to schedule multiple instances of this job potentially causing a large amount of

blocked queries to the database.

- (HUB-31755). Fixed an issue when generating a Project Version report that could cause VersionReportJob to run out of memory due to cyclic project structure.
- (HUB-31566). Fixed an issue where services could experience database connection errors due to job over-scheduling, out-of-memory issues, and/or long-running jobs.

Announcements for Version 2021.10.0

Enhanced Signature Scanning

The same performance improvements that were introduced to Package Manager Scanning in the 2021.8.0 release are available in the 2021.10.0 release for Signature Scanning. A key part of these improvements is Duplicate BOM Detection. With this feature, if a Signature Scan will not alter the BOM already associated with the specific Project and Version, then BOM Computation is bypassed.

Additionally, with Enhanced Signature Scanning the JobRunner no longer plays a role in processing of incoming Package Manager or Signature Scans. Although more system resources are not required to run Enhanced Signature Scans, it is possible that minor rebalancing of the containers is required. Please reach out to Synopsys support who can help you understand if any rebalancing is needed. We encourage all our customers to do so and take advantage of these improved capabilities.

Clarification on Detect 7.4 with Black Duck 2021.8.0

In order to ensure full functionality and compatibility, Black Duck version 2021.8.0 requires Detect 7.4. Users can continue to use older versions of Detect with Black Duck, but may encounter inaccurate dependency types or source views in the BOM when using aggregated BDIO files.

Upgrading to Detect 7.4 will ensure you avoid these inaccuracies in the BOM.

PostgreSQL container migration from 9.6 to 11

Black Duck will migrate its PostgreSQL image from version 9.6 to version 11 with the **2022.2.0** release. Customers not using the Synopsys-supplied PostgreSQL image will not be affected.

Black Duck PostgreSQL 9.6 deprecation

As announced in the Black Duck 2020.6.0 release, Black Duck was to end support for external PostgreSQL 9.6 for the 2021.6.0 release. Starting with the **2022.2.0** release, Black Duck will no longer work with PostgreSQL 9.6 and will fail to start if pointed to a PostgreSQL 9.6 instance.

PostgreSQL support schedule

Starting with the upcoming **2022.10.0** release, Black Duck will end support for external PostgreSQL 11. Please see the table below for the projected dates for the beginning and end of support for future PostgreSQL versions.

PG Version	First Release	Last Release	BD External Support Added	BD External Support End
16.x	Late 2023	Late 2028	2024.10.0	2026.10.0
15.x	Late 2022	Late 2027	2023.10.0	2025.10.0

14.x	September 2021	November 2026	2022.10.0	2024.10.0
13.x	September 2020	November 2025	2021.8.0	2023.10.0
12.x	October 2019	November 2024	X	Х
11.x	October 2018	November 2023	2020.6.0	2022.10.0

Database bds_hub_report deprecation starting with 2021.10.0

Starting with 2021.10.0, new installations of Black Duck will no longer create the bds_hub_report database. We plan to finally delete bds_hub_report in 2022.10.0.

Also, the hub_create_data_dump.sh and hub_db_migrate.sh scripts (which are distributed with our orchestration files) will no longer fail if bds hub report does not exist.

- The hub_create_data_dump.sh script will dump bds_hub_report if it exists but will not fail if it doesn't. If bds hub report is absent, the script will print a message saying it was skipped.
- The hub_db_migrate.sh script will try to restore bds_hub_report if it exists, regardless of whether or not a dump file is present (matching the behavior of prior releases). If bds_hub_report is not present, it will not try to restore it, also regardless of whether or not a dump file is present.
- A new script, hub_recreate_reportdb.sh is added to recreate bds_hub_report if a user wants propagate their bds_hub_report DBs from 2021.8.x or earlier to a new install of 2021.10.0 or later. In this case:
 - Run hub create data dump.sh on the old BD instance.
 - Run hub recreate reportdb.sh on the new BD instance.
 - Run hub db migrate.sh on the new BD instance with the dumps created in step #1.

Upcoming max page limit enforcement for API requests

Starting with Black Duck **2022.2.0**, max page limits on API requests will be enforced. Users should make singular requests that include a limit request parameter smaller or equal to the documented page limit. Requests for pages greater than the documented limit will be truncated to only return the maximum accepted page limit. Requests for page sizes will not be rejected but return a maximum number of results per paged request.

This will be an ongoing effort lasting subsequent releases to improve application stability and prevent performance degradation from unreasonably large requests.

Deprecated APIs

The following defunct endpoints will now return a 404 NOT FOUND error to indicate that access to the target resource is no longer available:

- GET /oauthclients
- POST /oauthclients
- DELETE /oauthclients/{oAuthClientId}
- GET /oauthclients/{oAuthClientId}
- PUT /oauthclients/{oAuthClientId}

POST /vulnerabilities/vulndb-copy

Japanese language

The 2021.8.0 version of the UI, online help, and release notes has been localized to Japanese.

Simplified Chinese language

The 2021.8.0 version of the UI, online help, and release notes has been localized to Simplified Chinese.

New and Changed Features in Version 2021.10.0

Signature scanner dry run update

Previously, when performing a Signature Scanner dry run, the output would produce a JSON file. Starting with Black Duck 2021.10.0, the produced output file will be a .bdio extension, and is a zip file. It will continue to be generated in the same directory as dry run as traditional signature scanning.

Updated error messages for the Enhanced Signature Generation

Signature scanning server-side error messages have been updated. A complete list of error messages will be made available in the user guide in an upcoming release.

Unmapped scans data retention configuration setting

A new configuration setting is now available for administrators to change the default retention period for unmapped scans. Starting with Black Duck 2021.10.0, this setting will be enabled by default and set to a period of 30 days (previously 365 days). This retention setting can be updated and set to as low as 1 day and to as high as 365 days.

To change this setting in the UI, click Admin, click Settings, and then click Data Retention.



Estimated Security Risk

This estimated risk statistic is formulated by looking at all the versions of a component sorted by security vulnerability severity category and calculating the maximum vulnerability count for each severity category for each component version. The maximum vulnerability count for each severity category is shown in the "Estimated Security Risk by Severity Category" on the Bill of Material for Security risk. The highest severity category counts may reference different component versions. For example:

- Version 1.1 has 2 Critical, 3 High, 15 Medium, 4 Low
- Version 1.2 has 2 Critical, 4 High, 12 Medium, 1 Low
- Estimated Security Risk by severity category for components with unknown versions would return as 2 Critical, 4 High, 15 Medium, 4 Low on the BoM.

Users should choose the exact version used in the application to view the accurate risk instead of the estimated risk. This estimated risk information is provided to help prioritize what components to review first. Users are encouraged to use estimated risk information in conjunction with BD Policy Management to further prioritize what components to triage first based on their company's security policies.

Note: The information presented is only a statistical data estimation. As a result, the estimated security risks will not have CVE data.

Generating Notices report when deep license data is enabled

The notices file will now place any declared licenses before additional ones. The declared and additional licenses will then be sorted alphabetically.

Addition of comments to the Source view and the Source report

Comments can now be added to entries in the Source view of a project. File comments are also shown in the snippet view. These comments also appear in the Source Report in the new column labeled Comments. Select the Source check box for the Version Detail Report in the Report tab to create a Source Report.

You can leave a comment for a particular entry in the Source tab by:

- clicking the
 ☐ icon found at the end of that component's row and selecting Comments from the dropdown menu or clicking the ☐ icon if there are already comments present.
- clicking the entry in the Source view, clicking the Name of the component, clicking the icon, and then selecting Comments from the dropdown menu or by clicking the picon if there are already comments present.

Policy Management Enhancement - Project Groups

Black Duck users will now have the ability to apply policy rules to project group(s) and its descendants. To

do so, go to **Policy Management** and either click the **Create Policy Rule** button or the button and select **Edit**. When the Create/Edit Policy Rule modal opens, ensure the **A Subset of Projects, filtered by...** option is enabled to see the Project Conditions filter dropdown.

Policy Management Enhancement - Added (RCE) Remote Code Execution to Vulnerability Conditions

Black Duck users will now have the ability to add Remote Code Execution (RCE) as a filter option when creating or editing policies. To do so, go to **Policy Management** and either click the **Create Policy Rule**

button or the button and select **Edit**. The new (RCE) Remote Code Execution value will be displayed in the Vulnerability Conditions dropdown menu.

Changes to Project Group Manager permissions

Previously, the actual permissions of the Project Group Manager were not affected by the global settings for allowing a project manager to remediate vulnerabilities or override policy. Now, the Project Group Manager role permissions will be adjusted based on Project Manager Role Settings.

Supported browser versions

- Safari Version 15.0 (16612.1.29.41.4, 16612)
 - · Safari versions 13.0 and below are no longer supported
- Chrome Version 94.0.4606.71 (Official Build) (x86_64)

- Firefox Version 92.0.1 (64-bit)
- Microsoft Edge Version 94.0.992.38 (Official build) (64-bit)
 - Microsoft Edge versions 79 and below are no longer supported

Container versions

- blackducksoftware/blackduck-postgres:9.6-1.3
- blackducksoftware/blackduck-authentication:2021.10.0
- blackducksoftware/blackduck-webapp:2021.10.0
- blackducksoftware/blackduck-scan:2021.10.0
- blackducksoftware/blackduck-jobrunner:2021.10.0
- blackducksoftware/blackduck-cfssl:1.0.4
- blackducksoftware/blackduck-logstash:1.0.11
- blackducksoftware/blackduck-registration:2021.10.0
- blackducksoftware/blackduck-nginx:2.0.9
- blackducksoftware/blackduck-documentation:2021.10.0
- blackducksoftware/blackduck-upload-cache:1.0.19
- blackducksoftware/blackduck-redis:2021.10.0
- blackducksoftware/blackduck-bomengine:2021.10.0
- blackducksoftware/blackduck-matchengine:2021.10.0
- blackducksoftware/blackduck-webui:2021.10.0
- sigsynopsys/bdba-worker:2021.9.1
- blackducksoftware/rabbitmq:1.2.5

API Enhancements

Permission fixes to GET /api/project-groups

The following fixes have been made to the GET /api/project-groups api endpoints:

- GET api/project-groups will only return the project groups the user is authorized to view as search results.
- GET api/project-groups/<project group ID> will return a HTTP 200 OK for users with the Super User role or a HTTP 403 FORBIDDEN response otherwise.

Permission changes to GET /api/users/{userId}

The GET /api/users/{userId} endpoint now no longer has a permission check (previously required a USERMGMT_READ check).

- The GET /api/users/endpoint (that lists all users) will continue to be protected with the USERMGMT READ permissions.
- The projectOwner user (regardless of the user's permission status) in the /api/projects/ {projectId} API will still be provided.
- The USERMGMT_READ permission that was added to project roles in Black Duck version 2021.8.2 will still be removed.

New filter parameter for GET /api/project-groups

A new filter parameter called exactName has been added to help find specific project groups. When true, the exactName filter will ensure only the project group that matches the name value in q is returned. The search criteria for the project group is case-insensitive. If none match, then nothing is returned. Also, the q parameter must be specified when the exactName filter is true otherwise no project groups will be returned.

See below for how the filter is used in a /api/project-groups request:

/api/project-groups?q=name:ct group name>&filter=exactName:true

Improved CPE Support APIs

Three new public APIs have been added:

- GET /api/cpes [Requires a searchParam. Returns matching CPE IDs]
- GET /api/cpes/{cpeId}/versions [Returns component-versions matching the CPE ID]
- GET /api/cpes/{cpeId}/variants [Returns component-origins matching the CPE ID]

Copyright 2.0 data and new legacy endpoint

Black Duck is now rolling out Copyright 2.0 data using the existing endpoint (below) to serve this new copyright data. No response fields are being dropped or added.

GET /api/components/{componentId}/versions/{componentVersionId}/origin/
{originId}/file-copyrights

We will continue to serve Copyright 1.0 (aka legacy) data by creating a new endpoint:

GET /api/components/{componentId}/versions/{componentVersionId}/origin/
{originId}/file-copyrights-legacy

Note: This new endpoint is not directly used in Black Duck UI, only through the public API directly. Also, since the existing endpoint will now return Copyright 2.0 data, all Black Duck customers (regardless of the version they use) should see this new data.

Exposure of lastScanDate through a Public API

The following API will now expose lastScanDate in the Public API response:

■ GET /api/projects/{projectId}/versions/{projectVersionId}/bom-status

Fixed Issues in 2021.10.0

The following customer-reported issues were fixed in this release:

- (HUB-29413). Searching for components in the Add Component or Edit Component modals is now more accurate, and Custom Components are more easily found.
- (HUB-26545 and HUB-30185). Fixed an issue where the following Public REST API endpoints did not update the componentModification, componentModified, and componentPurpose component conditions as expected.
 - /api/projects/{projectId}/versions/{projectVersionId}/components/

{componentId}

- /api/projects/{projectId}/versions/{projectVersionId}/components/ {componentId}/versions/{componentVersionId}
- (HUB-30474). Fixed an issue where the count displayed on the Affected Projects page was not matching the actual results when the user has no access to certain projects.
- (HUB-30623). Fixed issues where a number of client-initiated errors were creating heavy log churn via logging of stacktraces or were incorrectly logged at a more severe log level than they actually represented.
- (HUB-30099). Fixed an issue where Vulnerability statuses were not updated for existing BOMs by KB update. BoM Component-Version Vulnerability remediations (found in the BoM-security view) will now be updated by the KB Update Job when the remediation status changes if the current status is not user or system updated.
- (HUB-29773). Fixed an issue where the /api/projects/<project ID>/versions/<version ID>/vulnerable-bom-components endpoint would have longer than expected response times. The request now only includes one license definition per version BOM component which should improve the response time. Users should only see a lower number of results if they had a Protex BOM imported with license overrides.
- (HUB-26924). Fixed an issue so that a user-friendly error message now appears when a SAML SSO user login fails. If the SSO configuration is wrong, an error page will be displayed to indicate a configuration issue. If the user is disabled in HUB, an error page will be displayed, notifying the user to contact the system administrator or Unauthorized page.
- (HUB-31176). Fixed an issue where Rapid Scan policy evaluation was not checking the BOM status when the remediation status is associated with a specific project-version.
- (HUB-30808). Fixed an issue where custom fields created under the BOM Component tab in Custom Fields Management were not returning when reviewing a component's "Additional fields" within any project's BOM. We will display up to 100 custom fields when editing the custom fields on BOM component.
- (HUB-30922). Fixed an issue where the descriptions on the Project Version level were not displayed.
 This field will now display the description used on the Project level.
- (HUB-31482). Fixed an issue where licenses were not shown on the Snippet confirmation page after HUB 2021.6.2.
- (HUB-31003). Fixed an issue where users could get a HTTP 500 Internal Server Error when attempting to perform bulk remediation for vulnerabilities.
- (HUB-31425). Fixed an issue where the Version Detail Report was taking a significant amount of time to run/complete the query when started compared to previous versions of HUB.
- (HUB-29598). Fixed an issue where the number of vulnerabilities in the PDF generated by "Print" button on component page would get pushed out due to the bar being too long.
- (HUB-30133). Fixed an issue where the t-shirt sizing ymls in the helm deployments have the webui container with less memory for an XL deployment than large. The webui container's memory limit is increased to 1024 Mi in x-large.yaml tshirt size.
- (HUB-28889). Fixed an issue where the BOM Engine could fail to start if RabbitMQ is not reachable.
- (HUB-30215). Fixed an issue where BDSA-2020-1311 was incorrectly reporting a workaround was available.

- (HUB-30857). Fixed a bug where the "Affected Projects" page for vulnerabilities was omitting vulnerabilities from ignored components in the items displayed but including them when finding the count for the total items. Now the count for total items also omits vulnerabilities from ignored components.
- (HUB-30603). Fixed an issue where a user could see the entirety of a comment under a BDSA or CVE record under the security tab of a project if it was grayed out.
- (HUB-28753). Fixed an issue where the BomEngine did not accept the value of the HUB_PROXY_ PASSWORD_FILE secret when created in docker and would return a 407 AUTHENTICATION REQUIRED error.
- (HUB-31483). Fixed an issue where the policy override date and user information in the Policy Violations modal was displayed incorrectly the Japanese localization.

New and Changed Features in Version 2021.8.8

Black Duck version 2021.8.8 is a maintenance release and contains no new or changed features. A fix was made to the online help to address CVE-2022-30278 which could allow an unauthenticated remote attacker to conduct a cross-site scripting attack.

Container versions

- blackducksoftware/blackduck-postgres:9.6-1.1
- blackducksoftware/blackduck-authentication:2021.8.8
- blackducksoftware/blackduck-webapp:2021.8.8
- blackducksoftware/blackduck-scan:2021.8.8
- blackducksoftware/blackduck-jobrunner:2021.8.8
- blackducksoftware/blackduck-cfssl:1.0.3
- blackducksoftware/blackduck-logstash:1.0.15
- blackducksoftware/blackduck-registration:2021.8.8
- blackducksoftware/blackduck-nginx:2.0.6
- blackducksoftware/blackduck-documentation:2021.8.8
- blackducksoftware/blackduck-upload-cache: 1.0.18
- blackducksoftware/blackduck-redis:2021.8.8
- blackducksoftware/blackduck-bomengine:2021.8.8
- blackducksoftware/blackduck-matchengine:2021.8.8
- blackducksoftware/blackduck-webui:2021.8.8
- sigsynopsys/bdba-worker:2021.7.0
- blackducksoftware/rabbitmg:1.2.3

Fixed Issues in 2021.8.8

The following customer-reported issues have been fixed:

 (HUB-32811). Fixed an issue where some reports could not be generated due to VersionReportJob failing for a project-version as a result of JDBC having too many parameters.

Announcements for Version 2021.8.7

Security Advisory for Apache Log4J2 (CVE-2021-45046 and CVE-2021-45105)

The Apache Organization released a new version (2.17.0) of the Log4j2 component, which addresses an additional vulnerability not fixed in versions 2.15.0 and 2.16.0.

CVE-2021-45046 allows attackers with control over Thread Context Map (MDC) input data when the logging configuration uses a non-default Pattern Layout with either a Context Lookup or a Thread Context Map pattern to craft malicious input data using a JNDI Lookup pattern resulting in a denial of service (DOS) attack.

<u>CVE-2021-45105</u> allows attackers with control over Thread Context Map (MDC) input data to craft malicious input data that contains a recursive lookup, resulting in a StackOverflowError that will terminate the process resulting in a denial of service (DOS) attack.

For more information, see Apache's Log4j Security Vulnerabilities page.

As stated with the Black Duck 2021.8.6 version, we believe that there is limited exposure to Synopsys' products, services and systems. To the extent we have had exposure, we have remediated or are in the process of remediating the situation. Please continue monitoring our community page for further updates.

New and Changed Features in Version 2021.8.7

Log4j Update

The Apache Log4j 2 Java library has been updated to 2.17.0 to address the critical CVE-2021-45046 and CVE-2021-45105 vulnerabilities.

Logstash Update

The Logstash image used in Black Duck has been upgraded to 7.16.2 which uses Log4j2 version 2.17.0.

- blackducksoftware/blackduck-postgres:9.6-1.1
- blackducksoftware/blackduck-authentication:2021.8.7
- blackducksoftware/blackduck-webapp:2021.8.7
- blackducksoftware/blackduck-scan:2021.8.7
- blackducksoftware/blackduck-jobrunner:2021.8.7
- blackducksoftware/blackduck-cfssl:1.0.3
- blackducksoftware/blackduck-logstash:1.0.15
- blackducksoftware/blackduck-registration:2021.8.7
- blackducksoftware/blackduck-nginx:2.0.6
- blackducksoftware/blackduck-documentation:2021.8.7
- blackducksoftware/blackduck-upload-cache: 1.0.18
- blackducksoftware/blackduck-redis:2021.8.7

- blackducksoftware/blackduck-bomengine:2021.8.7
- blackducksoftware/blackduck-matchengine:2021.8.7
- blackducksoftware/blackduck-webui:2021.8.7
- sigsynopsys/bdba-worker:2021.7.0
- blackducksoftware/rabbitmg:1.2.3

Fixed Issues in 2021.8.7

The following issues have been fixed:

- (HUB-32233). Upgraded Log4j to version 2.17.0 in response to CVE-2021-45046 and CVE-2021-45105.
- (HUB-32295). Updated Bitnami Logstash to 7.16.2 version with Log4j 2.17.0.

Announcements for Version 2021.8.6

Security Advisory for Apache Log4J2 (CVE-2021-44228)

Synopsys is aware of the security issue relating to the open-source Apache Log4j 2 Java library dubbed Log4Shell (or LogJam) which was disclosed publicly via the project's GitHub on December 9, 2021. The vulnerability allows for unauthenticated remote code execution and impacts Apache Log4j 2 versions 2.0 to 2.14.1. For more information, see the official CVE posting.

Based on what we know at this time, we believe that there is limited exposure to Synopsys' products, services and systems. To the extent we have had exposure, we have remediated or are in the process of remediating the situation. Please continue monitoring our community page for further updates.

See also: https://www.synopsys.com/blogs/software-security/zero-day-exploit-log4j-analysis/

New and Changed Features in Version 2021.8.6

Log4j Update

The Apache Log4j 2 Java library has been updated to 2.15.0 to address the critical CVE-2021-44228 vulnerability.

- blackducksoftware/blackduck-postgres:9.6-1.1
- blackducksoftware/blackduck-authentication:2021.8.6
- blackducksoftware/blackduck-webapp:2021.8.6
- blackducksoftware/blackduck-scan:2021.8.6
- blackducksoftware/blackduck-jobrunner:2021.8.6
- blackducksoftware/blackduck-cfssl:1.0.3
- blackducksoftware/blackduck-logstash:1.0.13
- blackducksoftware/blackduck-registration:2021.8.6
- blackducksoftware/blackduck-nginx:2.0.6

- blackducksoftware/blackduck-documentation:2021.8.6
- blackducksoftware/blackduck-upload-cache:1.0.18
- blackducksoftware/blackduck-redis:2021.8.6
- blackducksoftware/blackduck-bomengine:2021.8.6
- blackducksoftware/blackduck-matchengine:2021.8.6
- blackducksoftware/blackduck-webui:2021.8.6
- sigsynopsys/bdba-worker:2021.7.0
- blackducksoftware/rabbitmg:1.2.3

Fixed Issues in 2021.8.6

The following issues have been fixed:

(HUB-32174). Upgraded Log4j to version 2.15.0 in response to CVE-2021-44228.

New and Changed Features in Version 2021.8.5

Black Duck version 2021.8.5 is a maintenance release and contains no new or changed features.

Fixed Issues in 2021.8.5

- (HUB-31482). Fixed an issue where licenses were not shown on the Snippet confirmation page after Black Duck version 2021.6.2.
- (HUB-31663). Fixed an issue where the QuartzSearchDashboardRefreshJob could get into a condition where it tries to schedule multiple instances of this job causing a large amount of blocked queries.

- blackducksoftware/blackduck-postgres:9.6-1.1
- blackducksoftware/blackduck-authentication:2021.8.5
- blackducksoftware/blackduck-webapp:2021.8.5
- blackducksoftware/blackduck-scan:2021.8.5
- blackducksoftware/blackduck-jobrunner:2021.8.5
- blackducksoftware/blackduck-cfssl:1.0.3
- blackducksoftware/blackduck-logstash:1.0.10
- blackducksoftware/blackduck-registration:2021.8.5
- blackducksoftware/blackduck-nginx:2.0.6
- blackducksoftware/blackduck-documentation:2021.8.5
- blackducksoftware/blackduck-upload-cache: 1.0.18
- blackducksoftware/blackduck-redis:2021.8.5
- blackducksoftware/blackduck-bomengine:2021.8.5
- blackducksoftware/blackduck-matchengine:2021.8.5
- blackducksoftware/blackduck-webui:2021.8.5

- sigsynopsys/bdba-worker:2021.7.0
- blackducksoftware/rabbitmq:1.2.3

New and Changed Features in Version 2021.8.4

Black Duck version 2021.8.4 is a maintenance release and contains no new or changed features.

Fixed Issues in 2021.8.4

 (HUB-31425). Fixed an issue where the Version Detail Report was taking a significant amount of time to run/complete the query when started compared to previous versions of HUB.

Container versions

- blackducksoftware/blackduck-postgres:9.6-1.1
- blackducksoftware/blackduck-authentication:2021.8.4
- blackducksoftware/blackduck-webapp:2021.8.4
- blackducksoftware/blackduck-scan:2021.8.4
- blackducksoftware/blackduck-jobrunner:2021.8.4
- blackducksoftware/blackduck-cfssl:1.0.3
- blackducksoftware/blackduck-logstash:1.0.10
- blackducksoftware/blackduck-registration:2021.8.4
- blackducksoftware/blackduck-nginx:2.0.6
- blackducksoftware/blackduck-documentation:2021.8.4
- blackducksoftware/blackduck-upload-cache:1.0.18
- blackducksoftware/blackduck-redis:2021.8.4
- blackducksoftware/blackduck-bomengine:2021.8.4
- blackducksoftware/blackduck-matchengine:2021.8.4
- blackducksoftware/blackduck-webui:2021.8.4
- sigsynopsys/bdba-worker:2021.7.0
- blackducksoftware/rabbitmg:1.2.3

New and Changed Features in Version 2021.8.3

Reporting database enhancements

Added the following data to scan_stats_view under the reporting schema:

scan_size

Fixed Issues in 2021.8.3

The following customer-reported issues were fixed in this release:

- (HUB-29959, HUB-30391, and HUB-30397). Fixed an issue where scans would not complete due to a 500 Internal Error response from the KnowledgeBase while preparing the Bill of Materials.
- (HUB-31047). Fixed an issue when populating the version BOM components page, the UI makes duplicate calls to the back-end generating unnecessary stress to the database.
- (HUB-30074). Fixed an issue where very small code locations snippet scans sometimes finish before
 upload source info is updated giving the appearance that the uploaded source was lost.

Container versions

- blackducksoftware/blackduck-postgres:9.6-1.1
- blackducksoftware/blackduck-authentication:2021.8.3
- blackducksoftware/blackduck-webapp:2021.8.3
- blackducksoftware/blackduck-scan:2021.8.3
- blackducksoftware/blackduck-jobrunner:2021.8.3
- blackducksoftware/blackduck-cfssl:1.0.3
- blackducksoftware/blackduck-logstash:1.0.10
- blackducksoftware/blackduck-registration:2021.8.3
- blackducksoftware/blackduck-nginx:2.0.6
- blackducksoftware/blackduck-documentation:2021.8.3
- blackducksoftware/blackduck-upload-cache:1.0.18
- blackducksoftware/blackduck-redis:2021.8.3
- blackducksoftware/blackduck-bomengine:2021.8.3
- blackducksoftware/blackduck-matchengine:2021.8.3
- blackducksoftware/blackduck-webui:2021.8.3
- sigsynopsys/bdba-worker:2021.7.0
- blackducksoftware/rabbitmq:1.2.3

New and Changed Features in Version 2021.8.2

Black Duck version 2021.8.2 is a maintenance release and contains no new or changed features.

Fixed Issues in 2021.8.2

The following customer-reported issues were fixed in this release:

- (HUB-31078). Documented an issue where install and upgrade to Black Duck 2021.8 would fail in Kubernetes when the --reuse-values flag is used as part of the installation/upgrade. Please refer to the REAME.md under Helm charts for more details.
- (HUB-31086). Fixed an issue where the snippets box at top right side of BOM Page was missing for few project versions.

 (HUB-31156). Fixed an issue where users with the Project level BOM Manager role and without any Global or Overall roles would not able to access the Project BOM.

Container versions

- blackducksoftware/blackduck-postgres:9.6-1.1
- blackducksoftware/blackduck-authentication:2021.8.2
- blackducksoftware/blackduck-webapp:2021.8.2
- blackducksoftware/blackduck-scan:2021.8.2
- blackducksoftware/blackduck-jobrunner:2021.8.2
- blackducksoftware/blackduck-cfssl:1.0.3
- blackducksoftware/blackduck-logstash:1.0.10
- blackducksoftware/blackduck-registration:2021.8.2
- blackducksoftware/blackduck-nginx:2.0.6
- blackducksoftware/blackduck-documentation:2021.8.2
- blackducksoftware/blackduck-upload-cache:1.0.18
- blackducksoftware/blackduck-redis:2021.8.2
- blackducksoftware/blackduck-bomengine:2021.8.2
- blackducksoftware/blackduck-matchengine:2021.8.2
- blackducksoftware/blackduck-webui:2021.8.2
- sigsynopsys/bdba-worker:2021.7.0
- blackducksoftware/rabbitmg:1.2.3

New and Changed Features in Version 2021.8.1

Black Duck version 2021.8.1 is a maintenance release and contains no new or changed features.

Fixed Issues in 2021.8.1

The following customer-reported issues were fixed in this release:

- (HUB-31029). Fixed an issue where the Project Manager Role settings was overriding the individual/group's Super User role.
- (HUB-30808). Fixed an issue where custom fields created under the BOM Component tab in Custom Fields Management were not returning when reviewing a component's "Additional fields" within any project's BOM.
- (HUB-30655). Fixed an issue where users without the Super User role could see "Project Group Management" option in the Management menu.
- (HUB-31077). Fixed an issue where upgrading Black Duck HUB from 2021.6.0 to 2021.8.x would fail
 for Kubernetes deployments due to a change made to a property in the helm chart. Other prior
 versions are unaffected.

Container versions

- blackducksoftware/blackduck-postgres:9.6-1.1
- blackducksoftware/blackduck-authentication:2021.8.1
- blackducksoftware/blackduck-webapp:2021.8.1
- blackducksoftware/blackduck-scan:2021.8.1
- blackducksoftware/blackduck-jobrunner:2021.8.1
- blackducksoftware/blackduck-cfssl:1.0.3
- blackducksoftware/blackduck-logstash:1.0.10
- blackducksoftware/blackduck-registration:2021.8.1
- blackducksoftware/blackduck-nginx:2.0.6
- blackducksoftware/blackduck-documentation:2021.8.1
- blackducksoftware/blackduck-upload-cache: 1.0.18
- blackducksoftware/blackduck-redis:2021.8.1
- blackducksoftware/blackduck-bomengine:2021.8.1
- blackducksoftware/blackduck-matchengine:2021.8.1
- blackducksoftware/blackduck-webui:2021.8.1
- sigsynopsys/bdba-worker:2021.7.0
- blackducksoftware/rabbitmg:1.2.3

Announcements for Version 2021.8.0

Detect 7.4 required for Black Duck 2021.8.0 release

Black Duck version 2021.8.0 requires Detect 7.4 in order to run. Please ensure you meet this minimum version requirement when upgrading.

Desktop Scanner on CentOS-7

As a result of updated dependencies, the latest version of Desktop Scanner will not run on CentOS-7. Therefore, a different RPM was created specifically for the CentOS-7 build which will be running with an older version of Electron 12. We will maintain this separate CentOS-7 build for as long as Electron 12 is supported.

In addition to our current downloads, a link has been added on the Tools page specifically for the CentOS-7 download. The regular RPM, debian package, macOS and Windows installers are available as usual.

Japanese language

The 2021.6.0 version of the UI, online help, and release notes has been localized to Japanese.

Simplified Chinese language

The 2021.2.0 version of the UI, online help, and release notes has been localized to Simplified Chinese.

Deprecated APIs

The following endpoint has been removed:

■ GET /api/scan/{scanId}/bom-entries

The following defunct endpoints will now return a 410 GONE error to indicate that access to the target resource is no longer available:

- GET /oauthclients
- POST /oauthclients
- DELETE /oauthclients/{oAuthClientId}
- GET /oauthclients/{oAuthClientId}
- PUT /oauthclients/{oAuthClientId}
- POST /vulnerabilities/vulndb-copy

New and Changed Features in Version 2021.8.0

PostgreSQL 13 support for external databases

Black Duck now supports and recommends PostgreSQL 13 for new installs that use external PostgreSQL. Migrating to 2021.8.x does not require migration to PostgreSQL 13.

No action is required for users of the internal PostgreSQL container.

Please note that PostgreSQL 12 is not supported.

Installation documentation will be updated in an upcoming release.

Notice for Azure customers

Support for Black Duck on Azure PostgreSQL 13 will be best-effort only with no guarantee of resolution until Azure PostgreSQL 13 is fully released. As such, we very strongly recommend against using Azure PostgreSQL 13 for production deployments and customer should use Azure PostgreSQL 11.

For more information on Azure support for PostgreSQL 13, please visit https://docs.microsoft.com/en-us/azure/postgresql/concepts-version-policy.

New System Setting for scans: Component Dependency Duplication Sensitivity

This setting allows users to change how the system displays duplicate package ID's for components on the Source page that are found during scans. In previous releases and as the default setting in 2021.8.0 (set to 1), the Source page will only display one package ID discovery regardless of how often it is found in your scan. Changing this setting to greater than 1 will display more entries allowing for greater layer-by-layer insight to help determine from which layer each component originated. This feature is especially useful to customers who are scanning in Detect with BOM aggregation enabled and want to see package ID references across the various modules that have been aggregated into 1 scan.

New System Setting for scans: Minimum Scan Interval

This setting allows users to change the minimum hourly frequency of which signature scans can be performed for a given code location when using the LCA enhanced signature scanning. The default setting is set to 0, or no minimum scan interval, meaning scans are not prevented from occurring regardless of frequency. If set to greater than 0, signature scans will not be processed if they occur before the set scan interval. For example, a setting of 4 will not allow signature rescans before 4 hours of time have elapsed.

This setting may be configured globally in the Administration > System Settings > Scan page or through the Detect client as a command line option. Note: This setting is only used if customer scan using the parameter --detect.blackduck.signature.scanner.arguments='--signature-generation'.

Note: When this feature is enabled, signature scans with Detect will finish with a status of success even if the signature scan was not run due to the scan interval. A warning message will appear in the logs indicating the scan was not run, but there will be no other indication given to the user.

Changes in Rapid Scan policy application

Rapid Scan users now have the ability to configure how policies are applied to the results of Full (traditional) scans, Rapid Scans, or both. The default setting for new installations of Black Duck starting from version 2021.8.0 will be set to apply to full scans only. To use Rapid Scan to fetch all vulnerabilities regardless of policies, simply create a single policy, setting the condition severity >=0.

Added phone-home cumulative count of the number of rapid scans done

This count is accurate and data is not lost, but there might be some timing issues where some of the scans are from the subsequent day's data.

Rapid Scan vulnerability conditions added to Policy Management

The following vulnerability conditions are now available in Policy Management:

- CWE IDs
- Solution Available
- Workaround Available
- Exploit Available
- Reachable from Source
- Remediation Status

Project Group Management

Black Duck now provides the ability to logically group all your projects in the Hub, allowing you to organize which projects belong to which business unit making it easier for you to view risk across the organization. Project groups can contain both projects and other project groups to provide a multi-level hierarchy.

Users and Groups can be assigned to Project Groups with any number of roles. That assignment will give those users access to the projects below that group with the specified roles unless that assignment is explicitly overridden at the lower levels. This concept allows for setting users with default access to projects that haven't been created yet.

In addition, the search dashboard has been enhanced to return search results for projects the user has access to via a project group.

New Global Release Creator, Project Group BOM Annotator user roles, and changes to existing roles

The Project Creator and Global Code Scanner roles have had their access to the Global Release Create permission revoked and will no longer be able to create releases of projects they do not own or have access to. A new role, Global Release Creator, has been made to fill in the gap for users who depended on

this functionality. All current users with Project Creator and/or Global Code Scanner will automatically inherit this role as part of the upgrade migration script. That means this change will be specifically opt-out for current users looking to take advantage of the more narrow security change.

The Project Group BOM Annotator has the BOM Annotator permissions for every project in the assigned project group. This means they can add or edit comments and edit custom fields for projects associated with the project group.

Protex BOM Tool token access support enhancement

The Protex BOM tool now supports the BD_HUB_TOKEN environment variable to upload json exported from Protex to the Hub. You can set the token by adding "-T" using command prompt.

Add BD_HUB_TOKEN=[insert token here] variable to .bash_profile to make the change permanent.

Vulnerability Notifications enhancement

Added a new environment variable: BLACKDUCK_NOTIFY_WHEN_REMEDIATED in the blackduck-config.ev file. It defaults to true, but when set to false Black Duck will no longer send/create "new" vulnerability notifications for vulnerabilities with a remediation status of "Ignored, Remediation Complete, Mitigated, or Patched."

Signature scan timeout message enhancement

Network timeouts during a signature scan (waiting for a response from HUB) now return an accurate error message that indicates a network timeout and not an I/O error (code 74). The new message format will display Scan <Corresponding Scan ID> failed: [<Reason why it happened and whether to contact an administrator or retry the scan>].

Request Retry mechanism for Black Duck Hub enhancement

A waiter has been introduced which will retry uploading the scan to Hub when it receives HTTP 502/503/504 responses. It will retry in increments of 30 seconds for 10 minutes before declaring that the scan is failed.

Scans page enhancement

A new Created column was added to the Scans page allowing you to see when the scan was created. The date displayed in the column with make it easier to compare dates when filtering scans using the Created Date option.

Surface license risk info for Components without versions

New logic has been introduced to determine a default license for components with an unknown version. This is an estimated license based on greatest number of times it shows up across the top 1,000 versions of the component. With this, you will be able to calculate license risk without requiring a version to be selected. It is, however, recommended that you review these components and manually specify a version for more accurate results.

Reporting database enhancements

Added the following data to scan_stats_view under the reporting schema:

- user id
- project_id
- project_name
- version id
- version name
- scan id
- scan name
- code location id
- code location name
- scan_type
- scan status
- scan start at
- scan_end_at
- scan duration
- scan age
- scan archived at
- application_id

Policy rule condition enhancement

A new policy condition operator was added for policy rules Vulnerability Conditions Category for Overall Score. You may now select "Less than or equal to" when creating or editing policy rules.

API enhancements

- New API added that enables bulk confirm/un-confirm ignore/un-ignore of snippet matches.
 - PUT /api/projects/{projectId}/versions/{versionId}/bulk-snippet-bom-entries Media Type: application/vnd.blackducksoftware.bill-of-materials-6+json
- The following API endpoints have been updated to consider projects the user can access via project group membership. The query parameter has also changed from name to entityName for parity with the response content.
 - GET /api/users/{userId}/assignable-projects
 - GET /api/users/{userId}/assignable-project-groups/
 - GET /api/usergroups/{userGroupId}/assignable-projects
 - GET /api/usergroups/{userGroupId}/assignable-project-groups

- blackducksoftware/blackduck-postgres:9.6-1.1
- blackducksoftware/blackduck-authentication:2021.8.0
- blackducksoftware/blackduck-webapp:2021.8.0
- blackducksoftware/blackduck-scan:2021.8.0

- blackducksoftware/blackduck-jobrunner:2021.8.0
- blackducksoftware/blackduck-cfssl:1.0.3
- blackducksoftware/blackduck-logstash:1.0.10
- blackducksoftware/blackduck-registration:2021.8.0
- blackducksoftware/blackduck-nginx:2.0.5
- blackducksoftware/blackduck-documentation:2021.8.0
- blackducksoftware/blackduck-upload-cache:1.0.18
- blackducksoftware/blackduck-redis:2021.8.0
- blackducksoftware/blackduck-bomengine:2021.8.0
- blackducksoftware/blackduck-matchengine:2021.8.0
- blackducksoftware/blackduck-webui:2021.8.0
- sigsynopsys/bdba-worker:2021.7.0
- blackducksoftware/rabbitmg:1.2.3

Fixed Issues in 2021.8.0

- (HUB-29341). Fixed an issue when exporting BOM from Protex using the --include-files flag and then importing it to a Hub instance would generate a Java heap space error.
- (HUB-29005). Fixed an issue where if a BOM has two components with the exact same name but different UUIDs, the filter API
 - (/api/projects/projectId/versions/versionId/components-filters?filterKey=bomComponents) should return two separate components based on ID and their versions (if present) rather than grouping them by name.
- (HUB-29567). Fixed an issue where the "Updated" (or "Last Settings Update" in 2021.8.0) timestamp would be updated but not the updated by user name on the Project version > Details view. The "Last Settings Update" timestamp and updated by user name will now only be updated when project version details are changed.
- (HUB-30139). Fixed an issue in the Protex BOM tool where an Unmarshalling Error: Illegal character occurred when using the --include-files flag.
- (HUB-12280). Fixed an issue where uploading a bdio file with relationships to the project are not visible when they are also located lower in the 'bdio tree'.
- (HUB-29481). Fixed an issue where licenses with the same name but different capital letters were being omitted from notices reports.
- (HUB-30143). Fixed an issue where the Protex BOM tool 2021.6.0 did not work with latest JDK (11.0.11).
- (HUB-29274). Fixed an issue where VersionReportJob could cause jobrunner Out Of Memory issue when there are circular references on BOM page.
- (HUB-29381). Fixed an issue when a project version is added as a component (using Add > Project), the component entry would show an invalid Operational Risk level.
- (HUB-30087). Fixed an issue where the project version query fails to find the version when version name includes multi-byte alpha-numeric characters.
- (HUB-23686). Fixed an issue when running Detect against a node file the signature scanner would get stuck.

- (HUB-25592). Fixed an issue where component (or component version)'s adjustments got dropped automatically from BOM.
- (HUB-25552). Fixed an issue where component (or component version) with 'MATCH' type adjustments were automatically added/deleted from BOM.
- (HUB-29196). Fixed an issue where the policy violation pop-up did not disappear when it was clicked and the mouse cursor was moved away from the policy violation symbol quickly.
- (HUB-29573). Fixed an issue where line breaks in a policy rule's description were ignored when viewing the policy violation modal.
- (HUB-30611). Fixed an issue with where numeric usernames were causing errors in a database migration script.
- (HUB-26611). Fixed an issue where Direct/Transitive dependencies were not reported correctly when using aggregation in Detect. Please note that this fix is resolved only when using Detect 7.4 and requires using the new SUBPROJECT detect.bom.aggregate.remediation.mode in Detect.
- (HUB-22379). Fixed performance issues where project tagging and having tag policy can take hours on some instances.
- (HUB-30141). Fixed an issue with Hub swarm docker-compose.yml containing the unsupported "links" options.
- (HUB-29549). Fixed a performance issue with the loading of the BOM page caused by permission checks.

New and Changed Features in Version 2021.6.2

Black Duck version 2021.6.2 is a maintenance release and contains no new or changed features.

Container versions

- blackducksoftware/blackduck-postgres:9.6-1.1
- blackducksoftware/blackduck-authentication:2021.6.2
- blackducksoftware/blackduck-webapp:2021.6.2
- blackducksoftware/blackduck-scan:2021.6.2
- blackducksoftware/blackduck-jobrunner:2021.6.2
- blackducksoftware/blackduck-cfssl:1.0.2
- blackducksoftware/blackduck-logstash:1.0.10
- blackducksoftware/blackduck-registration:2021.6.2
- blackducksoftware/blackduck-nginx:2.0.5
- blackducksoftware/blackduck-documentation:2021.6.2
- blackducksoftware/blackduck-upload-cache:1.0.17
- blackducksoftware/blackduck-redis:2021.6.2
- blackducksoftware/blackduck-bomengine:2021.6.2
- blackducksoftware/blackduck-matchengine:2021.6.2
- blackducksoftware/blackduck-webui:2021.6.2
- sigsynopsys/bdba-worker:2021.06
- blackducksoftware/rabbitmq:1.2.2

Fixed Issues in 2021.6.2

The following customer-reported issues were fixed in this release:

 (HUB-30493). Fixed an issue where the Blackduck Alert instance was not accessible for hosted users due to specifying the proxy certificate location for Alert in NGINX configuration.

New and Changed Features in Version 2021.6.1

Black Duck Security Advisory (BDSA) Remote Code Execution Exposure

Black Duck highlights vulnerabilities that may allow Remote Code Execution (RCE) in the 2021.6.1 release.

In the Black Duck UI, if the BDSA vulnerability has a RCE tag it will appear in the full BDSA record, the table of vulnerabilities, and in the Security tab of a particular component.

The vulnerability APIs report the vulnerability using an array with the name bdsaTags. If the bdsaTag array includes "RCE" then that vulnerability may allow Remote Code Execution.

- /api/components/{componentId}/vulnerabilities
- /api/components/{componentId}/versions/{componentVersionId}/vulnerabilities
- /api/components/{componentId}/versions/{componentVersionId}/origin/ {componentVersionOriginId}/vulnerabilities
- /api/projects/{projectId}/versions/{versionId}/components/{componentId}/versions/ {componentVersionId}/origins/{componentVersionOriginId}/vulnerabilities

Container versions

- blackducksoftware/blackduck-postgres:9.6-1.1
- blackducksoftware/blackduck-datadog:1.0.1
- blackducksoftware/blackduck-solr:1.0.0
- blackducksoftware/blackduck-authentication:2021.6.1
- blackducksoftware/blackduck-webapp:2021.6.1
- blackducksoftware/blackduck-scan:2021.6.1
- blackducksoftware/blackduck-jobrunner:2021.6.1
- blackducksoftware/blackduck-cfssl:1.0.2
- blackducksoftware/blackduck-logstash:1.0.10
- blackducksoftware/blackduck-registration:2021.6.1
- blackducksoftware/blackduck-nginx:2.0.3
- blackducksoftware/blackduck-documentation:2021.6.1
- blackducksoftware/blackduck-upload-cache: 1.0.17
- blackducksoftware/blackduck-redis:2021.6.1
- blackducksoftware/blackduck-bomengine:2021.6.1
- blackducksoftware/blackduck-matchengine:2021.6.1
- blackducksoftware/blackduck-webui:2021.6.1
- sigsynopsys/bdba-worker:2021.06
- blackducksoftware/rabbitmq:1.2.2

Fixed Issues in 2021.6.1

The following customer-reported issues were fixed in this release:

- (HUB-29202). Fixed an issue where the binary scan container(bdba-worker) of 2021.4.0 did not work on docker SWARM by increasing timeout and retry values.
- (HUB-29405). Fixed an issue where matches were being dropped, due to the identification of a core_

i7 architecture.

- (HUB-30134). Fixed an issue where the BOM engine silently fails to start due to RabbitMQ connectivity issue.
- (HUB-30170). Fixed an issue where Redis fails to start due to incorrect configuration in the dockerentrypoint when utilizing dual stack Kubernetes.
- (HUB-30202). Fixed an issue where the vulnerability details page does not correctly change the display of the score metrics when the user clicks from BDSA scoring to NVD scoring and vice versa.

Announcements for Version 2021.6.0

Support ending for PostgreSQL version 9.6 for external databases

As of the Black Duck 2021.6.0 release, Synopsys has ended support for PostgreSQL version 9.6 for external databases.

Black Duck will now only support PostgreSQL version 11.x for external databases.

Deprecated page

As announced previously, the Scans > Components page has been removed.

Deprecated APIs

The following endpoints have been deprecated:

- GET /oauthclients
- POST /oauthclients
- DELETE /oauthclients/{oAuthClientId}
- GET /oauthclients/{oAuthClientId}
- PUT /oauthclients/{oAuthClientId}
- POST /vulnerabilities/vulndb-copy

Japanese language

The 2021.4.0 version of the UI, online help, and release notes has been localized to Japanese.

New and Changed Features in Version 2021.6.0

New containers and changes to system requirements

In the 2021.6.0 release:

- A new container, blackduck-webui, has been added for improved Black Duck performance, better caching, and future scalability.
- The Rapid Scanning feature is now available to all Black Duck customers. This feature requires a new container, blackduck-matchengine, which manages connections to the Black Duck KnowledgeBase and cache KnowledgeBase results for short intervals.

The following are now the minimum hardware that will be needed to run a single instance of all containers.

Note that memory requirements depend on the number of concurrent Rapid Scans you want to support.

- 7 CPUs
- 28.5 GB RAM for the minimum Redis configuration; 31.5 GB RAM for an optimal configuration providing higher availability for Redis-driven caching. This will support up to 100 concurrent Rapid Scans.

30 GB RAM for the minimum Redis configuration; 33 GB RAM for an optimal configuration providing higher availability for Redis-driven caching. This will support more than 150 Rapid Scans, however, the maximum number of supported Rapid Scans is still being determined.

- 250 GB of free disk space for the database and other Black Duck containers
- Commensurate space for database backups

The following is the minimum hardware that is needed to run Black Duck with Black Duck - Binary Analysis.

- 8 CPUs
- 32.5 GB RAM for the minimum Redis configuration; 35.5 GB RAM for an optimal configuration providing higher availability for Redis-driven caching. This will support up to 100 concurrent Rapid Scans.

34 GB RAM for the minimum Redis configuration; 37 GB RAM for an optimal configuration providing higher availability for Redis-driven caching. This will support more than 150 Rapid Scans, however, the maximum number of supported Rapid Scans is still being determined.

- 350 GB of free disk space for the database and other Black Duck containers
- Commensurate space for database backups

Note: An additional CPU, 2 GB RAM, and 100 GB of free disk space will be needed for every additional binaryscanner container.

Rapid Scanning

Rapid Scanning is now available for all customers.

Black Duck's Rapid Scanning provides a way for developers to quickly determine if the versions of open source components included in a project violate corporate policies surrounding the use of open source. Using Synopsys Detect, Rapid Scanning quickly returns results as it only employs package manager scanning and does not interact with the Black Duck server database. Use Rapid Scanning when you need quick feedback and when persisting the data in Black Duck is not necessary.

Using Rapid Scanning enables you to run thousands of scans while eliminating the need to deploy additional instances of Black Duck. It provides you with actionable results (such as failing the build) that can be used without a project version or without access to Black Duck's user interface.

New jobs subsystem

The jobs subsystem has been replaced with a new implementation.

- Possible status for a job can now be:
 - Pending
 - · In progress
 - Complete
 - Error
- You can filter jobs based on their schedule: periodic or on demand.
- With the new implementation, the following jobs have been added:
 - BomAggregatePurgeOrphansCheckJob. Checks to see if any BOM data is not associated with a project version and starts the necessary jobs.
 - BomVulnerabilityDataRecomputationCheckJob. Checks if BOM computations are required when certain settings change and starts the necessary jobs.
 - BomVulnerabilityDataRecomputationJob. Updates component information received from the KnowledgeBase.
 - HierarchicalVersionBomCheckJob. Checks if hierarchical BOM computations are required and starts the necessary jobs to process them
 - JobHistoryStatsJob-Calculate Daily Statistics. Calculates daily statistics based on job activity.
 - JobHistoryStatsJob-Calculate Five Minute Statistics. Calculates statistics in 5-minute intervals based on job activity.
 - JobHistoryStatsJob-Calculate Hourly Statistics. Calculates statistics in one-hour periods based on job activity.
 - JobHistoryStatsJob-Prune Job History. Prunes old records from the job history based on the retention settings.
 - KBUpdateCheckJob. Initiates updates received from the KnowledgeBase.
 - KbUpdateWorkflowJob-BDSA Vulnerability Update. Updates BDSA vulnerability information received from the KnowledgeBase.
 - KbUpdateWorkflowJob-Component Update. Updates component information received from the KnowledgeBase.
 - KbUpdateWorkflowJob-Component Version Update. Processes component version updates received from the KnowledgeBase.
 - KbUpdateWorkflowJob-License Update. Updates license information received from the KnowledgeBase.
 - KbUpdateWorkflowJob-NVD Vulnerability Update. Updates NVD vulnerability information received from the KnowledgeBase.
 - KbUpdateWorkflowJob-Summary.Issues a summary report about the most recent KnowledgeBase update.
 - LicenseTermFulfillmentCheckJob. Checks if license fulfillment processing is required and starts the necessary jobs.
 - NotificationPurgeCheckJob. Checks if there are notifications that need cleanup and starts the necessary jobs.
 - QuartzVersionBomEventCleanupJob. Cleans up BOM events based on the retention policy.
 - · VersionBomComputationCheckJob. Checks if BOM computations are required and starts the

necessary jobs to process them.

- VersionBomNotificationCheckJob. Issues notifications for BOM computation results.
- WatchdogJob. Monitors recurring jobs to ensure they are running properly and reports on or fixes issues as they are determined.
- The following jobs have been removed:
 - KbUpdateJob

Report enhancements

- A new project version report, license_conflicts_date_time.csv has been added. It lists the license conflicts for this project version. This report has the following columns:
 - · Component id
 - · Version id
 - · Component name
 - · Component version name
 - Usage
 - · License ids
 - License names
 - Source/Type
 - · License Term Responsibility
 - · License Term Category
 - · License Term Name
 - Description
 - · Conflicting License Id
 - · Conflicting License Name
 - Conflicting License Term Source Type
 - Conflicting License Term Responsibility
 - Conflicting License Term Category
 - · Conflicting License Term Name
 - Conflicting License Term Description
- A new column, Has License Conflicts, has been added to the end of the components_date_ time.csv project version report. This column indicates whether this component version has a license conflict.
- File names for reports now use the system timezone instead of UTC.

Ability to refresh Black Duck KnowledgeBase copyright information

Black Duck now provides the ability for you to view updated Black Duck KnowledgeBase copyright information for a component origin. If there is new or updated data, Black Duck updates the information shown while keeping any edits that you made.

New role

A new role, BOM Annotator, has been added to Black Duck. Users with this role have read-only access to a

project and can add or edit comments in a BOM and update BOM custom fields.

LDAP or SAML group synchronization

if you enabled group synchronization when configuring LDAP or SAML for Black Duck, the name of this group in the external authentication system (LDAP or SSO) now appears in the **External Group Name** field on the *Group Name* page. Now, if a group names changes on the external system, you can edit it to keep the Black Duck group name in sync with the external authentication system group name.

Enforcement of required custom fields

Black Duck now provides an option so that users *must* enter values when editing objects which have required custom fields.

New filters for project search

Black Duck now provides these filters when searching for projects:

- Never Scanned. Use this filter to find all project versions that were never part of a scan.
- Not Scanned Since. Use this filter to find all project version that have not been scanned since the selected time period.

Retention period for unmapped code locations

The default retention period for unmapped code locations has changed from 365 days to 30 days.

Additional information in the Add/Edit Component dialog boxes

So that you can more easily determine the component you wish to use, the Add Component and Edit Component dialog boxes now include the component's home page URL and the number of project versions that use this component.

Policy enhancements

The following component conditions now include a "false" option:

- License Conflict with Project Version
- Unfulfilled License Terms
- Unknown Component Version

Improved C/C++ matching

In the 2021.6.0 release, BOM accuracy has been improved for customers scanning C/C++ in the Linux domain.

New match types

Two new match types have been added in the 2021.6.0 release.

- Direct Dependency Binary. Scanning identified that the binaries in use are a direct dependency.
- Transitive Dependency Binary. Scanning identified that the binaries in use are a transitive dependency.

API enhancements

- With the change to the jobs subsystem:
 - The GET /jobs/{jobID} This call gets the job details for a specific job by ID. This call will now return a 404 Not Found status code.
 - The following calls are out-of-service since Black Duck version 2020.2.0, returning a 404 Not Found status code, and will remain non-functional in Black Duck version 2021.6.0:
 - ° PUT /jobs/{jobID} This call reschedules a job.
 - ° DELETE /jobs/{jobID} This call terminates a job.

The functionality will be replaced with a new Job Rest API implementation which will be available in a future release.

 Added new boolean field to policy view (/api/policy-rules/{policyRuleId}) expressions ("developerScanExpression") to identify rapid scan types.

Supported browser versions

- Safari Version 14.0.3 (15610.4.3.1.7, 15610)
- Chrome Version 90.0.4430.72 (Official Build) (x86_64)
- Firefox Version 88.0 (64-bit)
- Microsoft Edge Version 90.0.818.41 (Official build) (64-bit)

Container versions

- blackducksoftware/blackduck-postgres:9.6-1.1
- blackducksoftware/blackduck-authentication:2021.6.0
- blackducksoftware/blackduck-webapp:2021.6.0
- blackducksoftware/blackduck-scan:2021.6.0
- blackducksoftware/blackduck-jobrunner:2021.6.0
- blackducksoftware/blackduck-cfssl:1.0.2
- blackducksoftware/blackduck-logstash:1.0.10
- blackducksoftware/blackduck-registration:2021.6.0
- blackducksoftware/blackduck-nginx:2.0.0
- blackducksoftware/blackduck-documentation:2021.6.0
- blackducksoftware/blackduck-upload-cache:1.0.17
- blackducksoftware/blackduck-redis:2021.6.0
- blackducksoftware/blackduck-bomengine:2021.6.0
- blackducksoftware/blackduck-matchengine:2021.6.0
- blackducksoftware/blackduck-webui:2021.6.0
- sigsynopsys/bdba-worker:2021.03
- blackducksoftware/rabbitmq:1.2.2

Japanese language

The 2021.4.0 version of the UI, online help, and release notes has been localized to Japanese.

Fixed Issues in 2021.6.0

The following customer-reported issues were fixed in this release:

- (Hub-21613). Fixed an issue where the scan.cli version 2019.8.x displayed a non-meaningful warning message about performance degradation due to Java version used.
- (Hub-25227, 25521). Fixed an issue where the scan's status of Scan Complete on the Scans page was misleading.
- (Hub-26108). Fixed an issue where deploying Black Duck with Alert when using a customer certificate required manual intervention with the nginx alert configuration file.
- (Hub-26924). Fixed an issue so that a user-friendly error message now appears when a SAML SSO user login fails.
- (Hub-27209). Fixed an issue where the VersionBomComputationJob failed with the following error:
 "Error in job execution: could not extract ResultSet; SQL [n/a]; constraint [cvss2_severity]."
- (Hub-27681). Fixed an issue whereby the BOM Engine had to be started by a root user when deployed on Kubernetes with a custom security context.
- (Hub-27894). Fixed an issue so that the reset is set to 0 in new Black Duck searches.
- (Hub-28171). Fixed an issue where the copyright search failed for one project.
- (Hub-28305). Fixed an issue where the following error was seen in the logs: Failed class com.blackducksoftware.job.integration.domain.impl.JobMaintenanceJob.
- (Hub-28347). Fixed an issue whereby a snippet adjustment resulted in a duplicate key SnippetAdjustment error.
- (Hub-28351). Fixed a performance issue when saving BOM license changes.
- (Hub-28469). Fixed an issue where custom certificates could not be configured with Docker 20.10.x.
- (Hub-28726). Fixed an issue whereby Black Duck displayed the name of the user who cloned a
 project as the name of the component reviewer after the project was cloned.
- (Hub-28909). Fixed an issue where an incorrect error message appeared in the Black Duck UI after a
 user account was locked out.
- (Hub-29071). Fixed an issue with performance when bulk editing snippets.
- (Hub-29168). Fixed an issue where if there were no matches in a scan that was mapped to a project version, then project-level file adjustments were not applied to that project version.

New and Changed Features in Version 2021.4.1

Black Duck version 2021.4.1 is a maintenance release and contains no new or changed features.

Fixed Issues in 2021.4.1

The following customer-reported issues were fixed in this release:

- (Hub-28347). Fixed an issue where bulk snippet adjustments failed with the following error:
 "Adjustment Failed: The server encountered an error, please check your connection and try again."
- (Hub-28807). Fixed an issue where the following error was seen in the Artifactory plugin: "Too many parameters error on /api/projects/components/<components/<componentID>/versions/<componentVersionID>?offset=0&limit=100."
- (Hub-29002). Fixed an issue where filtering for unignored snippets in the Snippet Confirmation window displayed system-wide snippets.
- (Hub-29448). Fixed an issue where the LDAP user authorization failed with an IncorrectResultSizeDataAccessException error.

Announcements for Version 2021.4.0

New containers and changes to system requirements

In the 2021.6.0 release:

- A new container, blackduck-webui, will be added for improved Black Duck performance, better caching, and future scalability.
- The Rapid Scanning feature will be available to all Black Duck customers. This feature requires a new container, currently called blackduck-kb, which will manage connections to the Black Duck KnowledgeBase and cache KnowledgeBase results for short intervals.

The following will be the minimum hardware that will be needed to run a single instance of all containers. Note that memory requirements depend on the number of concurrent Rapid Scans you want to support.

- 7 CPUs
- 28.5 GB RAM for the minimum Redis configuration; 31.5 GB RAM for an optimal configuration

providing higher availability for Redis-driven caching. This will support up to 100 concurrent Rapid Scans.

30 GB RAM for the minimum Redis configuration; 33 GB RAM for an optimal configuration providing higher availability for Redis-driven caching. This will support more than 150 Rapid Scans, however, the maximum number of supported Rapid Scans is still being determined.

- 250 GB of free disk space for the database and other Black Duck containers
- Commensurate space for database backups

The following is the minimum hardware that is needed to run Black Duck with Black Duck - Binary Analysis.

- 8 CPUs
- 32.5 GB RAM for the minimum Redis configuration; 35.5 GB RAM for an optimal configuration providing higher availability for Redis-driven caching. This will support up to 100 concurrent Rapid Scans.

34 GB RAM for the minimum Redis configuration; 37 GB RAM for an optimal configuration providing higher availability for Redis-driven caching. This will support more than 150 Rapid Scans, however, the maximum number of supported Rapid Scans is still being determined.

- 350 GB of free disk space for the database and other Black Duck containers
- Commensurate space for database backups

Note: An additional CPU, 2 GB RAM, and 100 GB of free disk space will be needed for every additional binaryscanner container.

Retention period for unmapped code locations

In the Black Duck 2021.6.0 release, the default retention period for unmapped code locations will be changing from 365 days to 30 days.

Deprecated APIs

The following endpoint has been deprecated and will be removed in a future release:

```
GET /api/scan/{scanId}/bom-entries
```

The following endpoint will be deprecated as of April 30, 2021:

```
GET /api/components/{componentId}/versions/{componentVersionId}/origins/
{originId}/direct-dependencies
```

New job implementation in 2021.6.0 release

In the Black Duck version 2021.6.0, the jobs subsystem is being replaced with a new implementation, which will cause the following job Rest API calls not to function.

■ GET /jobs/{jobID}

This call gets the job details for a specific job by ID. As of the Black Duck 2021.6.0 release, this call will return a 404 Not Found status code.

The following calls are out-of-service since Black Duck version 2020.2.0, returning a 404 Not Found status code, and will remain non-functional in Black Duck version 2021.6.0.

■ PUT /jobs/{jobID}

This call reschedules a job.

■ DELETE /jobs/{jobID}

This call terminates a job.

The functionality will be replaced with a new Job Rest API implementation which will be available in a future release.

Japanese language

The 2021.2.0 version of the UI, online help, and release notes has been localized to Japanese.

New and Changed Features in Version 2021.4.0

Rapid Scanning - Limited Customer Availability feature

Black Duck's Rapid Scanning provides a way for developers to quickly determine if the versions of open source components included in a project violate corporate policies surrounding the use of open source. Using Synopsys Detect, Rapid Scanning quickly returns results as it only employs package manager scanning and does not interact with the Black Duck server database. Use Rapid Scanning when you need quick feedback and when persisting the data in Black Duck is not necessary.

Using Rapid Scanning enables you to run thousands of scans while eliminating the need to deploy additional instances of Black Duck. It provides you with actionable results (such as failing the build) that can be used without a project version or without access to Black Duck's user interface.

Note: Rapid Scanning is a limited customer access feature in the 2021.4.0 release. To use Rapid Scanning, contact your Synopsys account management team for assistance.

Duplicate BOM detection

Black Duck has added duplicate BOM detection which determines if a new package manager scan duplicates the existing BOM, and if so, stops processing the scan and denotes it as complete. For high-frequency scans that generate redundant (identical) data, Black Duck's duplicate BOM detection can provide significant performance improvements.

In Black Duck 2021.4.0, this feature only impacts package manager (dependency) scans when the set of dependencies discovered by Synopsys Detect is identical to the set from the previous scan. This capability will be extended in future releases.

Ability to configure Project Manager role

Black Duck now provides the ability for system administrators to define whether the Project Manager role can manage policy violations (override policy violations or remove overrides) or remediate security vulnerabilities for a project.

By default, users with the Project Manager role can manage policy violations and remediate security

vulnerabilities: users upgrading to version 2021.4.0 will not see any changes in the Project Manager role.

Multi-license editing enhancements

When editing a license for a KnowledgeBase or custom component version, Black Duck now gives you the ability to easily create new or edit existing multi-license scenarios for the components at the root level or at the same level as the original license.

Deep license data enhancement

Black Duck now provides the ability to add file level deep licenses or remove a manually added license.

Report enhancements

- The following enhancements were made to the component project version report (component_date time.csv):
 - A new column, Component origin id, has been added to the end of the report. This column
 provides the component origin ID value that previously could only be obtained using the API.
 - The user name, date, and time was added to each comment listed in the Comments column.
- A new column, Knowledgebase Timed Out, has been added to the end of the upgrade guidance project version report (project_version_upgrade_guidance_date_time.csv). It indicates whether or not a Black Duck KnowledgeBase timeout error occurred while fetching upgrade guidance data for a component version/origin.

Policy management enhancements

- Project and component conditions available for a policy rule have been reorganized into categories to make it easier to find and select a condition. Also, custom fields for projects and components have been separated by the type of custom field.
- A new license condition, License Expiration Date Comparison for declared or deep licenses, lets you compare a license expiration date with the release date for a project version.

Vulnerability Impact enhancement

A new vulnerability condition for policy rules, Reachable from Source, is now available enabling you to create policy rules for vulnerabilities which have been identified as reachable. Use this condition to prioritize those vulnerabilities with a different (higher) priority.

Changes to LDAP or SAML group synchonization

To reduce authentication errors, Black Duck has modified LDAP or SAML group synchonization. Now, if you enabled group synchronization when configuring LDAP or SAML for Black Duck, group names on your LDAP or SAML server and the Black Duck server must be identical. If you change the name of a group in Black Duck, you must also change the name of the group on your LDAP or SAML server to match the new name (and vice versa). If the names are not identical, then the groups may be out-of-sync and user permissions for that group will be lost.

Container enhancement

A health check was added to the Binaryscanner container.

Enhancement to the Source tab

A new filter, Code View Available, has been added to the project version **Source** tab.

Component and project search enhancement

The Find page for component and project searches now provides the ability to sort search results.

Saved search enhancement

Sorted search results are supported for saved searches letting you view the results in the interested order on the Dashboard page.

Performance improvement to the *Project Name* page

To improve performance, you now must select the policy violation icon ($^{\bigcirc}$) or override icon ($^{\bigcirc}$) to view policy violation information on the **Overview** tab on the *Project Name* page.

Cloning enhancements

The following enhancements were made to cloning a project version:

- The default cloning options have changed. Now, all cloning options are enabled when a project is created.
- A new option, Version Settings, has been added which clones these values:
 - License
 - Notes
 - Nickname
 - Release Date
 - Phase
 - Distribution
- A new Clone Version dialog box appears when you select Clone from the Project Name page. If the Version Settings cloning option is enabled, only the new version name appears in the dialog box.
- To eliminate confusion, the Version to Clone field has been removed from the Create a New Version dialog box.

License conflicts enhancement

Manual edits to a BOM, including changing the usage for a component or the license of the project version using the **License Conflicts** or **Components** tab will now trigger a recalculation of the license conflict.

Enhancements to the System Information page

The usage categories on the System Information page have been enhanced.

- In the usage: project section, the "Scans by project" section now lists "Top 10 scans by project."
- In the usage: rapid scan completion section, "Rapid Scans by User" now lists the "Top 10 rapid scans by User."
- The usage: scan completion section has been reformatted into tables and includes an "identical

package manager" row for duplicate BOM detection. Two new tables have also been added: "Code location summary information" and "Duplicate BOM information."

These pages show six months of data or the number of months the system has data, whichever value is smaller.

A new job, CollectScanStatsJob, collects scan statistics shown on the **usage: scan completion** section on the System Information page.

Removal of installation guides

The Installing Black Duck using Kubernetes and the Installing Black Duck using OpenShift guides have been removed from the documentation set. These documents only contained links to the latest documentation. These links have been added to the Black Duck documentation page in each PDF and to the home page of the online help.

Enhancement to the *Project Name* page

The *Project Name* page has been reorganized and enhanced and now includes the last scanned date for each project version.

Enhancement to the Dashboard page

The Policy Violations value for 'None" in the Policy Violations Pie Chart on the Dashboard page previously returned either 100% (no violations) or 0% (some violations), now reflects the actual percentage for violations.

API enhancements

- Added the capability to generate Postman collections in the API documentation through /api-doc/postman-collection-public.json. Users can import the postman-collection-public.json file as a Postman collection into Postman.
- Added the capability to generate OpenAPI Specification (OAS) for customer-facing endpoints through /api-doc/openapi3-public.json.
- Added the capability to filter projects by project owner by using /api/projects?filter=owner, which takes the URL of the user to search for the user-owned projects, for example, /api/projects?filter=owner:https://<bd server>/api/users/.
- Added license ownership information as a new ownership field to the /projects/ {projectId}/versions/{projectVersionId}/components endpoint.
- Added APIs for reading and altering the following application settings:
 - Reading analysis settings

```
GET /api/settings/analysis
```

· Updating analysis settings

```
PUT /api/settings/analysis
```

· Reading branding settings

GET /api/settings/branding

· Updating branding settings

PUT /api/settings/branding

· Reading license review settings

GET /api/settings/license-review

· Updating license review settings

PUT /api/settings/license-review

· Reading role settings

GET /api/settings/role

· Updating role settings

PUT /api/settings/role

- Added /api/component-migrations and /api/component-migrations/ {componentOrVersionId} endpoints to get component migration data based on specific dates or specific components from the KnowledgeBase.
- Made the /license-dashboard API public, which allows a user to see the in-use licenses.
- Resolved an issue with the api/vulnerabilities/{vulnerabilityId} endpoint returning a header overflow error when the vulnerability had over 100 references. The endpoint now provides a warning and includes meta links in the response body when 25 or more link headers are returned in the response headers.
- Removed the "Trigger type" filter from the Activity/Journal endpoints as it is only used for the "user" type.

Supported browser versions

- Safari Version 14.0.3 (15610.4.3.1.7, 15610)
- Chrome Version 90.0.4430.72 (Official Build) (x86_64)
- Firefox Version 88.0 (64-bit)
- Microsoft Edge Version 90.0.818.41 (Official build) (64-bit)

Container versions

- blackducksoftware/blackduck-postgres:1.0.16
- blackducksoftware/blackduck-authentication:2021.4.0
- blackducksoftware/blackduck-webapp:2021.4.0
- blackducksoftware/blackduck-scan:2021.4.0
- blackducksoftware/blackduck-jobrunner:2021.4.0

- blackducksoftware/blackduck-cfssl:1.0.1
- blackducksoftware/blackduck-logstash:1.0.9
- blackducksoftware/blackduck-registration:2021.4.0
- blackducksoftware/blackduck-nginx:1.0.31
- blackducksoftware/blackduck-documentation:2021.4.0
- blackducksoftware/blackduck-upload-cache:1.0.16
- blackducksoftware/blackduck-redis:2021.4.0
- blackducksoftware/blackduck-bomengine:2021.4.0
- sigsynopsys/bdba-worker:2021.03
- blackducksoftware/rabbitmq:1.2.2

Japanese language

The 2021.2.0 version of the UI, online help, and release notes has been localized to Japanese.

Fixed Issues in 2021.4.0

The following customer-reported issues were fixed in this release:

- (Hub-24015, 26281). Fixed an intermittent permission denied error seen in the Black Duck user interface.
- (HUB-25116). Fixed an issue where red dots appeared in the Snippet View dialog box for a file encoded in UCS-2, rendering the text unreadable.
- (HUB-25549). Fixed an issue with /api/uploads where the created code location was not mapped to the project version when codeLocationName contained Japanese characters.
- (HUB-25550). Added BOM update information to a project version's activity/journal.
- (HUB-25605, 27618). Fixed an issue when using /api/tokens/authenticate to authenticate with an API token, where after the token expired, the HTTP client got redirected to the SAML provider page or an error occurred when generating PDF reports.
- (Hub-25993). Fixed an issue where a duplicate record caused the following error message to appear in the job runner log: 'A conflicting object already exists.'
- (Hub-26481). Fixed an issue where a page would refresh completely after saving a new remediation status.
- (HUB-26588). Fixed an issue where running a binary scan on android-studio-ide-201.7199119windows.exe failed.
- (Hub-26695). Fixed an issue where scans took significantly longer during certain times of the day.
- (Hub-26897). Fixed an issue so that a 404 Not Found error code appears for invalid versions which are those not listed on the Component Name page.
- (Hub-26911). Fixed an issue where selecting an alternate snippet match incorrectly identified a component as having cryptography.
- (Hub-27159). Fixed an issue for policy rules using the 'Contributors in the past year', 'Commits in the past year' or 'New Version Count' component conditions. Although these conditions were defined to

trigger a violation if the value was equal to 0, policy violations were triggered when the value was greater than 0 or a component had no commit history.

Note: With this fix, new scans or rescans may remove some policy violations that were previously triggered.

- (Hub-27167). Fixed an issue whereby active users assigned to an inactive group with the Global Project Viewer role could see all projects in the Dashboard.
- (Hub-27175). Fixed an issue where the **Used count** value on the *Component Name* page was
 inaccurate as it was based on the number of component origins, not the component versions.
- (Hub-27282). Fixed an issue where the policy violation popup in the BOM occasionally got stuck open and could not be closed unless the page was refreshed.
- (Hub-27284, 27660). Fixed an issue where some dynamically linked components with a match type of transitive dependency were missing the match information in the Source column in the project version BOM.
- (Hub-27287). Fixed an issue so that risk counts shown on the Overview tab on the Project Name page use component version values (as the BOM page does), instead of by component origin.
- (Hub-27293). Fixed an issue where components marked as Reviewed were noted as Unreviewed when the project was rescanned.
- (Hub-27306). Fixed an issue where components were listed in case sensitive order in the Notices Report.
- (Hub-27308). Fixed an issue where the Black Duck KB Component Name page did not correctly show the number of vulnerabilities after the license for a component version was changed.
- (Hub-27326). Fixed an issue whereby deleting the application ID using the project's Settings tab did not actually delete the application ID.
- (Hub-27613). Fixed an issue where the source files for binaries could not be navigated in the Source tab.
- (Hub-27961). Fixed the legends for the graphs on the Dashboard page so that they did not appear clickable.
- (Hub-27982). Fixed an issue where the binary scan only identified the first and last files in an MSI archive.
- (Hub-27985). Fixed an issue with the message that appears when Black Duck is building the BOM which would disappear when you scrolled down the BOM page.
- (Hub-28094). Fixed an issue where the /api/usergroups endpoint was not properly using "_" or "%" in the search term.
- (Hub-28165). Fixed an issue with editing a license on the BOM page where selecting Cancel/Close still applied the changes.
- (Hub-28208). Fixed an issue where the code base size shown on the Registration page was incorrect.
- (Hub-28226). Fixed an issue so that components that are in violation of one or more policies will now generate a "policy cleared" notification when the code location that brought them in is unmapped or deleted.
- (Hub-28259). Fixed an issue with an unreview/unignore SQL query analysis.
- (Hub-28292). Fixed an issue where the HELM t-shirt sizing . yml files did not scale the BOM engine

container.

- (Hub-28370). Fixed an issue where critical vulnerabilities were not shown when using the comparison view of the BOM.
- (Hub-28375). Fixed an issue so that the Affected Projects tab for a CVE or BDBA record no longer displays vulnerabilities from components that have been ignored.
- (Hub-28383). Fixed an issue where if the Project Name page was filtered and as a result only one version appeared on the page, the version could not be deleted.
- (Hub-28416). Fixed an issue where the AND or OR operator for a group of licenses could not be modified.
- (Hub-28458). Fixed an issue where the SnippetScanAutoBom job displayed an "Error in job execution: Duplicate key" error message.
- (Hub-28562). Fixed an issue with a binary scan where the scan failed to complete post work and the following error message appeared: "Path is not a parent of null."
- (Hub-28580). Fixed an issue when attempting to access the My Access Tokens page caused the following error "The application has encountered an unknown error."
- (Hub-28639). Fixed an issue where the suffix of the downloaded report file had a .json extension instead of .zip if the project name contained both English and Chinese characters.
- (Hub-28681). Fixed an issue so that the usage is shown on the Source tab when the match type is direct or transitive dependency.
- (Hub-28765). Fixed an issue where the BOM page displayed snippets that were both confirmed and ignored.
- (Hub-28773). Fixed an issue so that TLSv1.1 was removed from the TLS_PROTOCOLS option in the hub-webserver.env file.

New and Changed Features in Version 2021.2.1

Black Duck version 2021.2.1 is a maintenance release and contains no new or changed features.

Fixed Issues in 2021.2.1

The following customer-reported issues were fixed in this release:

- (Hub-23928). Fixed an issue where a confirmed snippet match was changed after a rescan.
- (Hub-26898). Fixed an issue whereby a scan appeared to be completed, however, Synopsys Detect timed out as it failed to get a bom_complete notification from Black Duck.
- (Hub-27688). Fixed an issue whereby the API call for matched files returned no information for transitive and direct dependency matches.
- (Hub-28410). Fixed an issue where the RabbitMQ container could not be started on Kubernetes which
 was resolved by introducing a persistent volume.
- (Hub-28208, 28386). Fixed an issue whereby the incorrect code base size was displayed on the Product Registration page.
- (Hub-28278). Fixed an issue where a missing persistent volume for RabbitMQ container caused excessive logging in the BOM Engine and scan failures.
- (Hub-28292). Fixed an issue with scaling the BOM Engine container.

Announcements for Version 2021.2.0

Notice for Azure customers

Black Duck version 2021.2.0 is being released with a known issue which impacts customers who deploy on Azure Kubernetes Services (AKS) and use Azure Database for PostgreSQL as an external database. Please note, this is the standard, recommended configuration for Black Duck customers on the Azure platform. At this time, it is NOT recommended that customers running on the Azure platform with an external database upgrade to 2021.2.0. Doing so will leave your system inoperable and force you to restore your installation back to the prior state.

We expect this to be resolved in a future release of Black Duck and will make the announcement when the release details are known.

If you are running on AKS and use an internal PostgreSQL database, there is no issue and the system works as expected. However, this would be an atypical installation on the AKS platform.

If you have concerns and questions, please reach out to Black Duck support for assistance.

Deprecation of PostgreSQL version 9.6 for external databases

Synopsys will be ending support for PostgreSQL version 9.6 for external databases starting with the Black Duck 2021.6.0 release.

As of the Black Duck 2021.6.0 release, Black Duck will only support PostgreSQL version 11.x for external databases.

Internet Explorer 11 no longer supported

Synopsys has ended support for Internet Explorer 11.

Deprecated page

The Scans > Components page is deprecated as of the 2021.2.0 release and will be removed in a future release.

Japanese language

The 2020.12.0 version of the UI, online help, and release notes has been localized to Japanese.

New and Changed Features in Version 2021.2.0

New custom vulnerability dashboards

So that you can easily view the vulnerabilities that are important to you, in 2021.2.0, the Security Dashboard has been replaced with custom vulnerability dashboards based on your saved vulnerability searches. Black Duck now provides the ability for you to search for vulnerabilities used in your projects and/or the Black Duck KnowledgeBase using a variety of attributes, save the search, and then use the Dashboard page to view dashboards from those saved searches.

For each vulnerability, the custom vulnerability dashboard displays the following information:

- BDSA or NVD vulnerability ID. Selecting the vulnerability ID shows more information on the vulnerability, such as additional score values.
- Number of project versions affected by this vulnerability with a link to view the Affected Projects tab for the vulnerability which lists the project versions affected by this vulnerability.
- Overall risk score.
- Whether a solution, workaround, or exploit is available.
- Date when a vulnerability was first detected, published, and last modified.
- Common Weakness Enumeration (CWE) number for this security vulnerability.

Vulnerability search enhancements

Searching for vulnerabilities has been enhanced by the attributes you can use to search for the vulnerability and the information shown in the search results. You can select whether to search for vulnerabilities in your projects or vulnerabilities in the Black Duck KnowledgeBase.

The following attributes are available when searching for vulnerabilities:

- Affecting projects
- Default Remediation
- Reachable
- Exploit
- First Detected
- Remediation Status
- Solution
- Base Score
- Exploitability Score
- Impact Score
- Overall Score
- Published Year
- Severity
- Source (BDSA or NVD)
- Temporal Score
- Workaround

These vulnerability search results can now be saved and view in the Dashboard page, as described previously.

Ability to manage license conflicts for projects

To reduce the risk of license infringement, you need to understand when a component in your BOM has a license with terms that are incompatible with the declared license of a project. Black Duck now identifies these license term conflicts and displays them on a new **License Conflict** tab located on the **Legal** tab.

You can also set a policy rule that is triggered when a component's license is in conflict with the license of a project version.

Note that Black Duck only determines license conflicts for component versions with high license risk. For the Black Duck license risk model, "high risk" means that licenses in this family tend to have license conflicts under this business scenario (combination of distribution type and component usage) making them incompatible. Medium or low risks means it may have risks if the business scenario changes (or is defined incorrectly) or due to other, non-license conflicts factors.

Dependencies

When direct or transitive dependencies are found in a Synopsys Detect scan, Black Duck now lists the number of matches for each type of dependency in the project version's **Security** tab.

For transitive dependencies, a dependency tree shows the components that brought in this dependency, the vulnerabilities by severity level, and a match count for the number of times the component was brought in with that dependency path.

Report database enhancements

A new table for ignored components, (component ignored, has been added to the report database. It

has these columns:

- id. ID
- project version id. Project version ID.
- component id. Component ID.
- component version id. Component version ID.
- component name. Component name.
- component version name. Component version name.
- version origin id. Version origin ID.
- origin id. Origin ID.
- origin name. Origin name.
- ignored. Boolean that indicates whether the component is ignored.
- policy approval status. Policy approval status.
- review status. Review status of the component.
- reviewed by. User who reviewed the component.
- reviewed on. When the component was reviewed.
- security critical count. Number of critical security vulnerabilities.
- security high count. Number of high security vulnerabilities.
- security_medium_count. Number of medium security vulnerabilities.
- security low count. Number of low security vulnerabilities.
- security ok count. Number of no security vulnerabilities.
- license high count. Number of high license risk.
- license medium count. Number of medium license risk.
- license low count. Number of low license risk.
- license ok count. Number of no license risk.
- operational high count. Number of high operational risk.
- operational medium count. Number of medium operational risk.
- operational low count. Number of low operational risk.
- operational ok count. Number of ok operational risk.

A new table for user information, user, has been added to the report database. It has these columns.

- id. ID.
- first name. User's first name.
- last name. User's last name.
- username. User's username in Black Duck.
- email. User's email address.
- active. A boolean that indicates whether this user is active.
- last login. Time that the user last logged in to Black Duck.

License editing enhancements

The following enhancements were made when editing licenses in the BOM.

- When editing a license for a component, Black Duck now gives you the ability to easily create new or edit existing multi-license scenarios for the components in your BOM at the root level or at the same level as the original license.
- If you selected a different license for a component, you can now revert the license to its original license as defined in the Black Duck KnowledgeBase.
- A new option in the Component Name Version Component License dialog box makes it easily discernible that there is an edit mode.

Report enhancement

A new column, Archive Context and Path, has been added to the end of the <code>source_date_time.csv</code> project version report. This column concatenates the information shown in the existing Path and Archive Content columns to provide the full path for each component.

Notices File Report

The Notices File Report has been improved so that copyright data no longer contains duplicate information for a single component-origin.

Binary scan enhancement

Binary scans now return partial matches in addition to full matches.

Deep license data enhancement

When reviewing evidence of deep license data in a file, Black Duck now highlights the license text that triggered the license text match.

BOM Engine

To improve Black Duck UI response time, license updates will now be performed by the BOM Engine. This process can be seen as a "License Update" or "License Term Fulfillment Update" event in the BOM Processing Status dialog box, accessible from the BOM.

Black Duck tutorials

To easily view training for Black Duck, you can now select Black Duck Tutorials from the Help menu (



Modification to password configuration

Users with the System Administrator role can now set password requirements for local Black Duck accounts. Users with the Super User role can no longer configure password requirements.

Policy rule enhancement

Policy management now provides the ability to create policy rules based on project version custom fields for Boolean, Date, Drop Down, Multiple Selections, Single Selection, and Text field types.

Hosting location for Synopsys Detect

Black Duck customers with limited external connectivity can now define the internal hosting location of Synopsys Detect. Using this information, these users can leverage Code Sight for deployment across their developer base to run on-demand Software Composition Analysis (SCA) scans.

Saved search dashboard enhancements

For each saved search shown on the Dashboard page, Black Duck now lists the date and time the search was last updated. A popup displays the saved search filters with a link so that you can open the Find page to edit and save a revised saved search.

Snippet triage enhancement

Icons have been added to the **Source** tab to make it easier to differentiate unconfirmed (\bigcirc), confirmed (\bigcirc), and ignored (\bigcirc) snippets.

Supported browser versions

- Safari Version Version 14.0.3 (15610.4.3.1.6, 15610)
- Chrome Version Version 88.0.4324.150 (Official Build) (x86 64)
- Firefox Version 85.0.2 (64-bit)
- Microsoft Edge Version 88.0.705.63 (Official build) (64-bit)

Container versions

- blackducksoftware/blackduck-postgres:1.0.16
- blackducksoftware/blackduck-authentication:2021.2.0
- blackducksoftware/blackduck-webapp:2021.2.0
- blackducksoftware/blackduck-scan:2021.2.0
- blackducksoftware/blackduck-jobrunner:2021.2.0
- blackducksoftware/blackduck-cfssl:1.0.1
- blackducksoftware/blackduck-logstash:1.0.9
- blackducksoftware/blackduck-registration:2021.2.0
- blackducksoftware/blackduck-nginx:1.0.30
- blackducksoftware/blackduck-documentation:2021.2.0
- blackducksoftware/blackduck-upload-cache:1.0.15
- blackducksoftware/blackduck-redis:2021.2.0
- blackducksoftware/blackduck-bomengine:2021.2.0
- sigsynopsys/bdba-worker:2020.12-1
- blackducksoftware/rabbitmq:1.2.2

Supported Docker versions

Black Duck installation supports Docker versions 18.09.x, 19.03.x, and 20.10.x (CE or EE).

Docker webapp-volume

The Docker webapp-volume is no longer used in orchestration. Optionally, users can backup and prune the Docker webapp-volume; otherwise no action is required.

API enhancements

- API documentation is now only available at https://<Black Duck server URL>/api-doc/public.html.
- Added the capability to filter code locations (/api/codelocations) by creation date.
- Fixed the API used to download the SAML Identity Provider Metadata XML file (api/sso/idp-metadata endpoint) that was working incorrectly in previous versions.
- The remediation-guidance endpoint (GET /api/components/{componentId}/versions/ {componentVersionId}/remediating) no longer returns a "410 GONE" response. You must switch to the upgrade-guidance endpoint, (GET /api/components/{componentId}/versions/ {componentVersionId}/upgrade-guidance) which is incompatible with the remediation-guidance endpoint that was removed.
- Added a report dependency-paths endpoint to show dependency paths for a component:
 - /api/project/{projectId}/version/{projectVersionId}/origin/{originId}/dependency-paths
- Added the Synopsys Detect URI endpoint which is only used to set or update reading the Synopsys Detect URI on the System Settings page:

/external-config/detect-uri

Ubuntu operating system

The preferred operating system for installing Black Duck in a Docker environment for Ubuntu is now version 18.04.x.

Japanese language

The 2020.12.0 version of the UI, online help, and release notes has been localized to Japanese.

Fixed Issues in 2021.2.0

The following customer-reported issues were fixed in this release:

- (Hub-22103). Fixed an issue whereby the Black Duck server did not respond in time when updating a license status.
- (Hub-22623). Fixed an issue whereby the Summary Dashboard frequently timed out for enterprise customers when loading in the UI.
- (Hub-24332). Fixed an issue where scanning the same code location caused duplicated notifications.
- (Hub-25374). Fixed a permission error for database azure_maintenance.
- (Hub-25580). Fixed an issue whereby components shown in the BOM were incorrectly sorted after page 9.
- (Hub-25666). Fixed a pagination issue for the endpoint /usergroups/<group #>/roles.
- (Hub-26030). Fixed an issue where sorting options were not retained for a dashboard by project name after performing an action.

- (Hub-26324). Fixed an issue where the following error "java.lang.lllegalStateException: Parent of [file:/C:/src/External/PackageManager/ProjectTemplates/com.unity.template.universal-10.1.0.tgz] does not exist" occurred when uploading a scan.
- (Hub-26343). Fixed an issue where Black Duck could not be registered as the registration container ran out of heap space.
- (Hub-26493). Fixed a confusing error message which appeared when a user removed themselves as a member of a project.
- (Hub-26501). Fixed an issue whereby the cordova-plugin-inappbrowser component could not be selected in the Edit Component dialog box.
- (Hub-26536). Fixed an issue whereby a watched project displayed the Unwatched icon () in the page header.
- (Hub-26540). Fixed an issue whereby the initial configuration of SAML did not go into effect unless Black Duck was restarted.
- (Hub-26615). Fixed an issue whereby a user with the Project Manager role in Project A and Project
 Manager and Project Code Scanner roles in Project B could upload scans to Project A.
- (Hub-26616). Fixed an issue whereby attempting to ignore a snippet would fail with the following error message: "Unable to update existing snippet adjustment because changing the consumer, producer, adjustment type, start line, end line is not supported."
- (Hub-26712, 26962). Fixed an issue whereby the snippet icon shown in the tree view on the Source tab did not clear after a snippet match was confirmed.
- (Hub-26726). Fixed an issue whereby the "not in" option was not available for custom fields when creating a policy rule.
- (Hub-26807). Fixed an issue whereby a HTML status code 404 was received when attempting to GET custom fields for the BOM component version.
- (Hub-26815). Fixed an issue whereby saving SAML integration settings caused the page to reload and switch Identity Provider Metadata settings.
- (Hub-26904). Fixed an issue whereby the match count value shown on the project version Activity section on the Settings tab was not the same as on the Scan Name page.
- (Hub-26930). Fixed an issue where notifications where not triggered for a component.
- (Hub-27002). Fixed an issue whereby the wrong notification was sent when a cloned project was created.
- (Hub-27049). Fixed an issue whereby the License Terms category for a Project Version Report could not be seen in the Black Duck UI without a user being assigned the License Manager role.
- (Hub-27208). Fixed an issue with blackduck-nginx whereby Synopsys Alert failed to load when SAML was configured.
- (Hub-27227). Fixed an issue whereby snippet matching took a long time to complete.
- (Hub-27264). Fixed an issue whereby reviewing a component reset its usage to its default value.
- (Hub-27681). Fixed an issue whereby the BOM Engine had to be started by a root user when deployed on Kubernetes with a custom security context.

Announcements for Version 2020.12.0

New containers and changes to system requirements

There are two additional containers: BOM Engine and RabbitMQ (now a required container) for the 2020.12.0 release.

The minimum system requirements to run a single instance of all containers are:

- 6 CPUs
- 26 GB RAM for the minimum Redis configuration; 29 GB RAM for an optimal configuration providing higher availability for Redis-driven caching
- 250 GB of free disk space for the database and other Black Duck containers
- Commensurate space for database backups

The minimum hardware that is needed to run Black Duck with Black Duck - Binary Analysis are:

- 7 CPUs
- 30 GB RAM for the minimum Redis configuration; 33 GB RAM for an optimal configuration providing higher availability for Redis-driven caching
- 350 GB of free disk space for the database and other Black Duck containers
- Commensurate space for database backups

Note: An additional CPU, 2 GB RAM, and 100 GB of free disk space will be needed for every additional binaryscanner container.

Ending support for Internet Explorer 11

Support for Internet Explorer 11 is deprecated and Synopsys will be ending support for Internet Explorer 11 starting with the Black Duck 2021.2.0 release.

Japanese language

The 2020.10.0 version of the UI, online help, and release notes has been localized to Japanese.

New and Changed Features in Version 2020.12.0

New containers and changes to system requirements

There are two additional containers: BOM Engine and RabbitMQ (now a required container) for the 2020.12.0 release.

The minimum system requirements to run a single instance of all containers are:

- 6 CPUs
- 26 GB RAM for the minimum Redis configuration; 29 GB RAM for an optimal configuration providing higher availability for Redis-driven caching
- 250 GB of free disk space for the database and other Black Duck containers
- Commensurate space for database backups

The minimum hardware that is needed to run Black Duck with Black Duck - Binary Analysis are:

- 7 CPUs
- 30 GB RAM for the minimum Redis configuration; 33 GB RAM for an optimal configuration providing higher availability for Redis-driven caching
- 350 GB of free disk space for the database and other Black Duck containers
- Commensurate space for database backups

Note: An additional CPU, 2 GB RAM, and 100 GB of free disk space will be needed for every additional binaryscanner container.

Password configuration

Users with the Super User role can now set password requirements for *local* Black Duck accounts. If enabled, Black Duck ensures that the new password meets your requirements and also rejects passwords that are considered weak, such as "password", "blackduck", or a user's username or email address.

Super Users can:

- define the minimum password length.
- define the minimum number of character types for the password. Possible character types are lowercase letters, uppercase letters, numbers, or special characters.
- select whether to enforce the password requirements on current users when they log in to Black Duck.

By default, password requirements are enabled and have these settings:

- The minimum password length is eight characters.
- Only one character type is required.
- Password requirements are not enforced on current users when logging in to Black Duck.

License enhancements

So that you can successfully manage license risk, Black Duck now gives you the ability to create new or edit existing multi-license scenarios for the components in your BOM.

Vulnerability Impact Analysis enhancements

- A new project version report, vulnerability_matches_date_time.csv, has been added. It lists the component, vulnerability data, and vulnerability impact analysis data for each component potentially reached by a vulnerability. This report has the following columns:
 - · Component name
 - · Component id
 - In use
 - · Component version name
 - · Version id
 - · Channel version origin
 - · Origin id
 - · Origin name id
 - · Vulnerability Id
 - · Vulnerability source
 - CVSS Version
 - Security Risk
 - · Base score
 - · Overall score
 - Solution available
 - · Workaround available
 - · Exploit available
 - Called Function
 - Qualified Name
 - · Line Number
- A new table, vulnerability method matches (vulnerability_method_matches), has been added to the report database. It has the following columns:
 - id. ID.
 - project version id. UUID of the project version where the reachable vulnerability appears.
 - vuln source. Source of the vulnerability. For vulnerability impact analysis, the value is BDSA.
 - vuln id. Vulnerability ID, such as BDSA-2020-1234.
 - qualified name. Name of the class the function is called on.
 - called_function. Name of the vulnerable function call in your code that makes the vulnerability reachable.
 - line number. Line number in your code where the vulnerable function is called.
- The vulnerability reports (vulnerability remediation report, vulnerability status report, and the vulnerability update report) now have a new column, "Reachable", added to the end of the report, to denote whether the security vulnerability is reachable (true) or not reachable (false).

BOM computation information

Black Duck now provides detailed information on the status of the computation of the project version BOM.

The new **Status** indicator (replacing the Components indicator) in the project version header in the Black Duck UI provides the current status of the BOM and notifies you of the state of the processing of BOM events. For more information, a new BOM Processing Status dialog box lists the events that are pending, processing, or have failed.

Black Duck also provides the ability to configure the frequency of the BOM event cleanup job (VersionBomEventCleanupJob) which clears those BOM events that might be stuck because of processing errors or topology changes.

Policy enhancements

- Policy management now provides the ability to create policy rules based on these custom fields:
 - Component custom fields for Boolean, Date, Drop Down, Multiple Selections, Single Selection, and Text field types.
 - Component version custom fields for Boolean, Date, Drop Down, Multiple Selections, Single Selection, and Text field types.
- You can now distinguish between declared and deep (embedded) license data when creating policy rules for these conditions:
 - License
 - · License expiration date
 - · License family

Note: Any existing policy rules using these license conditions will now only apply to declared licenses. You must create a separate policy rule for deep (embedded) licenses for these license conditions.

Report enhancements

The vulnerability reports (vulnerability remediation report, vulnerability status report, and the vulnerability update report) that were previously only available at the global or project level are now available for project versions.

Configuration of snippet file size

You can now modify the default maximum file size that will be scanned for snippets and select a value from 1MB to 16MB.

Configuration of the clean up of unmapped code locations

Black Duck purges unmapped code location data every 365 days. You can disable this feature, such that unmapped code location data is not purged, or set the retention period to a lower number of days if you scan regularly and want to discard the data frequently.

Access tokens

The options for the scope of user access tokens are now Read or Read and Write.

Supported browser versions

- Safari Version 14.0.1 (14610.2.11.51.10)
- Chrome Version 87.0.4280.88 (Official Build) (x86_64)
- Firefox 83.0 (64-bit)
- Internet Explorer 11 11.630.19041.0

Note that support for Internet Explorer 11 is deprecated and Synopsys will be ending support for Internet Explorer 11 starting with the Black Duck 2021.2.0 release.

Microsoft Edge 87.0.664.60 (Official build) (64-bit)

Container versions

- blackducksoftware/blackduck-postgres:1.0.16
- blackducksoftware/blackduck-authentication:2020.12.0
- blackducksoftware/blackduck-webapp:2020.12.0
- blackducksoftware/blackduck-scan:2020.12.0
- blackducksoftware/blackduck-jobrunner:2020.12.0
- blackducksoftware/blackduck-cfssl:1.0.1
- blackducksoftware/blackduck-logstash:1.0.8
- blackducksoftware/blackduck-registration:2020.12.0
- blackducksoftware/blackduck-nginx:1.0.26
- blackducksoftware/blackduck-documentation:2020.12.0
- blackducksoftware/blackduck-upload-cache: 1.0.15
- blackducksoftware/blackduck-redis:2020.12.0
- blackducksoftware/blackduck-bomengine:2020.12.0
- sigsynopsys/bdba-worker:2020.09-1
- blackducksoftware/rabbitmq:1.2.2

API enhancements

- Added ability to sort projects (api/projects) by the createdAt field.
- Added the ability to filter to the api/projects endpoint for projects created before/after a date.
- Added the API for displaying vulnerability matches as part of the Vulnerability Impact Analysis feature.

GET /api/projects/{projectId}/versions/{projectVersionId}/vulnerabilities/{vulnerabilityId}/vulnerability-matches

- Added the following BOM endpoints:
 - · Get BOM status summary:
 - GET /api/projects/{projectId}/versions/{projectVersionId}/bom-status
 - · List a BOM's events:

GET /api/projects/{projectId}/versions/{projectVersionId}/bom-events

· Delete a failed BOM event:

DELETE /api/projects/{projectId}/versions/{projectVersionId}/bom-events/{bomEventId}

Delete all failed events from a BOM:

DELETE /api/projects/{projectId}/versions/{projectVersionId}/bom-events

- New password settings endpoints:
 - · Get password settings:

GET /api/password/security/settings

· Get system password settings:

GET /api/password/management/settings

Update system password settings:

PUT /api/password/management/settings

Validate password:

POST /api/password/security/validate

The /api/catalog-risk-profile-dashboard API now returns HTTP 404 (Not Found).

Japanese language

The 2020.10.0 version of the UI, online help, and release notes has been localized to Japanese.

Fixed Issues in 2020.12.0

The following customer-reported issues were fixed in this release:

- (Hub-24839). Fixed an issue where some component origin IDs could not be selected from the Add/Edit Component dialog box.
- (Hub-24911). Fixed an issue where a failed KBUpdateJob skipped component updates.
- (Hub-25230). Fixed an issue where the license text window did not appear when the user attempted to open or edit license text.
- (Hub-25452). Fixed an issue so that the **Discovery Type** filter is automatically added when a license type is selected when viewing license search results page in the **Source** tab.
- (Hub-25489). Fixed an issue where the filter in the Source tab was reset when the subfolder was changed.
- (Hub-25603). Fixed an issue so that the path shown in the Matched File Path field in the Snippet View dialog box on the Source tab refreshed when an alternative path was selected.
- (Hub-25681). Fixed an issue where the Protex BOM Tool failed to import licenses for generic/unspecified component versions.
- (Hub-25715). Fixed an issue where the Active status in the Custom Fields Management page could

not be modified unless the mouse was used.

- (Hub-25739). Fixed an issue where all comments for a BOM component could not be viewed.
- (Hub-25874). Fixed an issue where the bom_component_custom_fields_date_time.csv report listed different data than the components_date_time.csv report even though the data was in the same column name.
- (Hub-26442). Fixed an issue whereby a scan could not be deleted inside a project version by a project owner.
- (Hub-26496). Fixed an issue where a policy violation for license risk was still triggered although the license risk had changed when the component's usage was changed.

New and Changed Features in Version 2020.10.1

Container versions

- blackducksoftware/blackduck-postgres:1.0.13
- blackducksoftware/blackduck-authentication:2020.10.1
- blackducksoftware/blackduck-webapp:2020.10.1
- blackducksoftware/blackduck-scan:2020.10.1
- blackducksoftware/blackduck-jobrunner:2020.10.1
- blackducksoftware/blackduck-cfssl:1.0.1
- blackducksoftware/blackduck-logstash:1.0.8
- blackducksoftware/blackduck-registration:2020.10.1
- blackducksoftware/blackduck-nginx:1.0.26
- blackducksoftware/blackduck-documentation:2020.10.1
- blackducksoftware/blackduck-upload-cache:1.0.15
- blackducksoftware/blackduck-redis:2020.10.1
- sigsynopsys/bdba-worker:2020.09-1
- blackducksoftware/rabbitmg:1.2.2

Fixed Issues in 2020.10.1

The following customer-reported issues were fixed in this release:

- (Hub-25489). Fixed an issue where the filters selected in the Source tab were reset when a different folder was selected.
- (Hub-25515). Fixed an issue when the host instance was running TLS 1.3 where the Signature Scanner failed when uploading and displayed the following error message: "ERROR: Unable to secure the connection to the host".
- (Hub-25791). Fixed an issue where significant increases in scan time occurred after upgrading from version 2020.4.2 to version 2020.6.1/2020.6.2.
- (Hub-26027). Fixed an issue where Black Duck displayed the following error message: "ERROR: The application has encountered an unknown error. (Bad Request) error.{core.rest.common_error" when attempting to upload a Synopsys Detect scan.
- (Hub-26085). Fixed an issue where binary scans added a second empty scan.

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Announcements for Version 2020.10.0

New containers and changes to system requirements postponed to the 2020.12.0 release

Black Duck had announced previously that there would be two additional containers: BOM Engine and RabbitMQ (now a required container), for the 2020.10.0 release. This requirement has been postponed to the 2020.12.0 release.

For the 2020.12.0 release, the minimum system requirements to run a single instance of all containers will be:

- 6 CPUs
- 26 GB RAM for the minimum Redis configuration; 29 GB RAM for an optimal configuration providing higher availability for Redis-driven caching
- 250 GB of free disk space for the database and other Black Duck containers
- Commensurate space for database backups

For the 2020.12.0 release, the minimum hardware that is needed to run Black Duck with Black Duck - Binary Analysis will be:

- 7 CPUs
- 30 GB RAM for the minimum Redis configuration; 33 GB RAM for an optimal configuration providing higher availability for Redis-driven caching
- 350 GB of free disk space for the database and other Black Duck containers
- Commensurate space for database backups

Note: An additional CPU, 2 GB RAM, and 100 GB of free disk space will be needed for every additional binaryscanner container.

Japanese language

The 2020.8.0 version of the UI, online help, and release notes has been localized to Japanese.

New and Changed Features in Version 2020.10.0

New custom component dashboards

So that you can easily view the component versions that are important to you, in 2020.10.0, the Component Dashboard has been replaced with custom component dashboards based on your saved component searches. Black Duck now provides the ability for you to search for components used in your projects using a variety of attributes, save the search, and then use the Dashboard page to view dashboards from those saved searches.

For each component version, the custom component dashboards display the following information:

- Number of project versions using this component version and for each project version, the phase, license, review status, and security risks
- Number of vulnerabilities by risk category

- License and operational risk
- Policy violations
- Approval status
- Date the component version was first detected
- Date when the component was released, according to the Black Duck KnowledgeBase
- Number of new versions
- Date when a vulnerability for the component was last updated

Component and Black Duck KnowledgeBase search enhancements

Searching for components has been enhanced by the attributes you can use to search for the component and the information shown in the search results. The UI has also been enhanced so that you can easily differentiate searches for components used in your projects and searches for components in the Black Duck KnowledgeBase.

While the search attributes for Black Duck KnowledgeBase searches has not changed, the following attributes are available when searching for component versions used in your Black Duck projects:

- Security risk
- License risk
- Operational risk
- Policy rule
- Policy violation severity
- Review status
- Component approval status
- First detected
- License family
- Missing custom field data
- Release date
- License
- Vulnerability CWE
- Vulnerability reported date

For each component version matching your search criteria, the following information is shown:

- Number of project versions using this component version and for each project version, the phase, license, review status and security risks
- Number of vulnerabilities by risk category
- License and operational risk
- Policy violations
- Approval status
- Date the component version was first detected
- Date when the component was released, according to the Black Duck KnowledgeBase

- Number of new versions
- Date when a vulnerability for the component was last updated

These component search results can now be saved and view in the Dashboard page, as described previously.

For each KnowledgeBase component search result, the following information is shown:

- Number of project versions that use this component and a list of each project version, its phase, component version used, and associated security risk
- Commit activity trend
- Last commit date
- Number of component versions
- Tags for this component

Enhancement to saved searches

Black Duck now provides the ability to filter and sort saved searches on the Dashboard page.

License conflicts

In the 2020.10.0 release, Black Duck now provides the ability for you to designate incompatible custom license terms. You can define the custom license terms for forbidden or required actions that are in conflict with Black Duck KnowledgeBase terms or with your custom license terms.

Note: Currently, you cannot view incompatible license terms in a project version BOM. This ability will be available in a future Black Duck release.

License Management Enhancements

These three new filters have been added to the License Terms tab in License Management:

- Is Associated with License(s)
- Has Incompatible Term(s)
- Responsibility

New component usage

Black Duck has added an "Unspecified" usage which you can use to indicate that you need to investigate the usage of the component. You may find it useful to use this usage as the default value instead of existing defaults such as Dynamically Linked to eliminate confusion about whether the component is assigned its true usage value or the default value.

New tier

Black Duck has added a tier 0, which you can use to designate as the most critical tier.

Due to this new tier, these default policy rules have been modified to include tier 0:

- No External Tier 0, Tier 1 or Tier 2 Projects With More Than 1 High Vulnerability
- No External Tier 0, Tier 1 or Tier 2 Projects With More Than 3 Medium Vulnerabilities

There is no change to the existing tiers.

Enhancements to custom fields

The following enhancements have been made to custom fields

- Black Duck now provides the ability for you to denote that a custom field is required.
 - A warning message "* Additional fields are required" appears when viewing custom field information. However, users can still view and save non-custom field information and information for non-required custom fields on the page if data is not entered for the required custom field.
 - A new filter, "Missing Custom Field Data", has been added to the BOM so that you can view those components in the project version BOM which are missing information.
- An option to clear the selection has been added when viewing custom field information for Boolean and single select field types.

Allowed signature lists

Signature lists define the signatures Black Duck sends to the Black Duck KnowledgeBase web service to identify the open source software contained in the your scanned code. The Signature Scanner now has two new parameters which you can use to create allowed signature lists for binary or source file extensions. Each list is optional and works independently of the other list.

- --BinaryAllowedList x, y, x where x, y, z are the approved file extensions for SHA-1 (binary) files.
- --SourceAllowedList a, b, c where a, b, c, are the approved file extensions for clean SHA-1 (source code) files.

Enhancements to vulnerability impact analysis

The following enhancements have been made to vulnerability impact analysis:

- A new column, "Reachable", has been added to the end of the security_date_time.csv project version report to denote whether the security vulnerability is reachable (true) or not reachable (false).
- A new filter, "Reachable", has been added to the project version Security tab.

Report enhancements

The following reports have been enhanced:

- A new column, "Comments", has been added to the end of the components_date_time.csv project version report and lists the comments for each component.
- A new column, "Match type", has been added to the end of the vulnerability-status-report_date time.csv report to identify the match type.

Enhancements to the Report Database

The following columns have been added to the component matches table (component matches):

- match_confidence. Represents the confidence in the match, excluding snippet, binary, or partial file matches.
- match archive context. Local path to the archived file relative to the project's root directory.
- snippet confirmation status. Review status of the snippet matches.

HTTP/2 and TLS 1.3

To improve security and rendering of the Black Duck UI in a browser, Black Duck now supports HTTP/2 and TLS 1.3 in the Black Duck NGINX webserver. Note that the Black Duck NGINX Webserver continues to support HTTP/1.1 and TLS 1.2.

Change to jobs for purging scans

The BomVulnerabilityNotificationJob and the LicenseTermFulfillmentJob now also remove old audit events.

API enhancements

Added an endpoint to determine the Single Sign-On (SSO) status of Black Duck.

GET /api/sso/status

- Added endpoints for retrieving SAML/LDAP configurations (Admin use only).
 - · Read SSO configuration:

GET /api/sso/configuration

· Download an IDP metadata file:

GET /api/sso/idp-metadata

- These SSO endpoints were also added:
 - Update SSO configuration:

POST /api/sso/configuration

Upload an IDP metadata file:

POST /api/sso/idp-metadata

- Added the following BOM hierarchical component endpoints:
 - · List hierarchical root components:

GET /api/projects/{projectId}/versions/{projectVersionId}/hierarchical-components

List hierarchical children components:

GET /api/projects/{projectId}/versions/{projectVersionId}/components/ {componentId}/hierarchical-components/{hierarchicalId}/children

• List hierarchical children component versions:

GET/api/projects/{projectId}/versions/{projectVersionId}/components/{componentId}/versions/{componentVersionId}/hierarchical-components/{hierarchicalId}/children

New fields were added to the notifications API for vulnerabilities to enable further classification of

notifications. These notifications involve vulnerability information that has changed in a BOM and includes the following fields:

vulnerabilityNotificationCause

Information about the kind of vulnerability event that occurred and triggered a notification such as a vulnerability was added or removed, changed comment, changed remediation details, changed severity of vulnerability, or the status changed.

· eventSource

Information about the source that generated the notification, such as a scan, Black Duck KB update, or user actions such as remediation, reprioritization, or adjustment.

The /api/catalog-risk-profile-dashboard API now returns HTTP 410 (GONE).

Supported browser versions

- Safari Version 13.1.2 (14609.3.5.1.5)
- Chrome Version 86.0.4240.80
- Firefox 82 (64-bit)
- Internet Explorer 11.572.19041.0

Note that support for Internet Explorer 11 is deprecated and Synopsys will be ending support for Internet Explorer 11 starting with the Black Duck 2021.2.0 release.

■ Microsoft Edge 86.0.622.51 (Official build) (64-bit)

Container versions

- blackducksoftware/blackduck-postgres:1.0.13
- blackducksoftware/blackduck-authentication:2020.10.0
- blackducksoftware/blackduck-webapp:2020.10.0
- blackducksoftware/blackduck-scan:2020.10.0
- blackducksoftware/blackduck-jobrunner:2020.10.0
- blackducksoftware/blackduck-cfssl:1.0.1
- blackducksoftware/blackduck-logstash:1.0.6
- blackducksoftware/blackduck-registration:2020.10.0
- blackducksoftware/blackduck-nginx:1.0.26
- blackducksoftware/blackduck-documentation:2020.10.0
- blackducksoftware/blackduck-upload-cache: 1.0.15
- blackducksoftware/blackduck-redis:2020.10.0
- sigsynopsys/bdba-worker:2020.09
- blackducksoftware/rabbitmq:1.2.2

Japanese language

The 2020.8.0 version of the UI, online help, and release notes has been localized to Japanese.

Fixed Issues in 2020.10.0

The following customer-reported issues were fixed in this release:

- (Hub-20559, 22100). Fixed an issue where snippet adjustments were lost when scanning the same code location from a different root directory or when cloning a project version.
- (Hub-21421). Fixed an issue where the print functionality did not work for large projects.
- (Hub-23705, 25560). Fixed an issue where users could not delete reports that they created.
- (Hub-23709). Fixed an issue whereby the following scan.cli.sh warning message appeared when scanning: "Unable to find manifest from all manifests."
- (Hub-24330). Fixed an issue whereby an error message ("Duplicate key value violates unique constraint") appeared when importing a Protex project into Black Duck version 2019.10.3.
- (Hub-24673). Fixed an issue whereby navigating from a Dashboard page failed if there were more than 32,000 components.
- (Hub-24675). Fixed an issue whereby the root_bom_consumer_node_id was set incorrectly
- (Hub-24871). Fixed an issue with PostgreSQL database growth since release 2019.10.0.
- (Hub-24772). Fixed an issue where the default .pdf filename when printing a BOM was not the project name and version name.
- (Hub-24839). Fixed an issue where some component origin IDs could not be selected from the Add/Edit Component dialog box.
- (Hub-24947). Fixed an issue whereby search results when adding a project to a BOM were listed inconsistently.
- (Hub-25171). Fixed an issue whereby the vulnerability count was not updated when remediated using an API until after a rescan (PUT /api/projects/{projectId}/versions/{projectVersionId}/components/ {componentId}/versions/{componentVersionId}/origins/{originId}/vulnerabilities/ {vulnerabilityId}/remediation).
- (Hub-25219). Fixed an issue with creating reports through the API, wherein specifying a locale such as "locale": "ja_JP" was ignored. Now, the locale field correctly sets the language of the generated report.
- (Hub-25234). Fixed an issue where the **Print** button to print a BOM was occasionally missing bar graph counts.
- (Hub-25240). Fixed an issue where browser or API calls for a specific vulnerability (BDSA-2020-1674) failed.
- (Hub-25241). Fixed an issue where the VersionBomComputationJob failed for scans with the following error message: "Data integrity violation (Constraint:not_null, Detail: on column source_start_ lines)".
- (Hub-25244). Fixed an issue whereby manually added components were deleted from the BOM after upgrading to Black Duck release 2020.4.2.
- (Hub-25247). Fixed an issue whereby the following error message appeared in the Black Duck PostgreSQL logs: "ERROR: duplicate key value violates unique constraint "scan_component_scan_ id_bdio_node_id_key".
- (Hub-25321). Fixed an issue where when scrolling the BOM page, text appeared in areas on the page where text should not appear.
- (Hub-25324). Fixed an issue where the Scan Name page did not word wrap.

- (Hub-25478). Fixed an issue where the security risk filter on the Security page became invisible.
- (Hub-25508). Fixed an issue where old media types (v4 and v5) did not always work for the policy rules API (GET /api/projects/{projectId}/versions/{projectVersionId}/components/ {componentId}/versions/{componentVersionId}/policy-rules).
- (Hub-25522, 25523). Fixed an issue where formatting issues appeared in the BOM print preview window in Chrome for Black Duck version 2020.8.0.
- (Hub-25548). Fixed an issue where selecting new component matches in the hierarchical view did not update component matches in the Source view.
- (Hub-25570). Fixed an issue whereby the Security Dashboard page only partially loaded.
- (Hub-25608). Fixed an issue where vulnerabilities were counted twice in the "New Vulnerabilities" and "New Remediated Vulnerabilities" categories in the Vulnerability Update report.
- (Hub-25649). Fixed an issue where the policy violation popup windows on the Dashboard page would not close.
- (Hub-25841). Fixed an issue whereby numbers entered into a custom field of type Text were converted into a date format.

Known Issues and Limitations

The following is a list of known issues and limitations in Black Duck:

New Known Issues

 The Component Management > Component Versions tab > Add (KB) Component modal > Save does not display newly added component versions until the page is refreshed.

Current Known Issues and Limitations

- If you are using an LDAP directory server to authenticate users, consider the following:
 - Black Duck supports a single LDAP server. Multiple servers are not supported.
 - If a user is removed from the directory server, Black Duck user account continues to appear as active. However, the credentials are no longer valid and cannot be used to log in.
 - If a group is removed from the directory server, Black Duck group is not removed. Delete the group manually.
- Tagging only supports letters, numbers, and the plus (+) and underscore (_) characters.
- If Black Duck is authenticating users, user names are not case sensitive during login. If LDAP user authentication is enabled, user names are case sensitive.
- If a code location has a large bill of materials, deleting a code location may fail with a user interface timeout error.

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