



Release Notes

Version 2019.4.3



This edition of the *Release Notes* refers to version 2019.4.3 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 Compose	install_compose.pdf	Contains information about installing and upgrading Black Duck using Docker Compose.
Installing Black Duck using Docker Swarm	install_swarm.pdf	Contains information about installing and upgrading Black Duck using Docker Swarm.
Installing Black Duck using Kubernetes	install_kubernetes.pdf	Contains information about installing and upgrading Black Duck using Kubernetes.
Installing Black Duck using OpenShift	install_openshift.pdf	Contains information about installing and upgrading Black Duck using OpenShift.
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.

Title	File	Description
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.

Black Duck integration documentation can be found on [Confluence](#).

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>
- Email: software-integrity-support@synopsys.com
- Phone: See the Contact Us section at the bottom of our [support page](#) to find your local phone number.

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

Learn more at <https://community.synopsys.com/s/education>.

Announcements for Version 2019.4.0

Black Duck on Kubernetes and OpenShift Installation Process

As of the 2019.4.0 Black Duck release, the sole supported method to install Black Duck on Kubernetes or OpenShift is Synopsys Operator.

Synopsys Operator is a cloud-native administration utility that assists in the deployment and management of Synopsys software in Kubernetes and OpenShift clusters. After Synopsys Operator is installed, you can leverage it to easily deploy and manage Synopsys software.

- Click [here](#) for an overview of Black Duck for Kubernetes/OpenShift.
- Click [here](#) for an overview of Synopsys Operator.
- Click [here](#) for documentation on installing and using Synopsys Operator.

If you are a customer using Kubernetes or OpenShift and are using an install method other than the Synopsys Operator, please contact Synopsys Customer Support for migration assistance. Though a transition to the Synopsys Operator is very straightforward, our support team is available to provide additional aid in the migration to the Synopsys Operator.

Supported PostgreSQL Deployments for External Databases

Black Duck supports:

- PostgreSQL 9.6.x via Amazon Relational Database Service (RDS)
- PostgreSQL 9.6.x via Google Cloud SQL
- PostgreSQL 9.6.x (Community Edition)

Synopsys recommends upgrading to version 9.6.12 as it includes performance-related fixes.

Announcements for Version 2019.2.0

Securing Black Duck access for Hosted Customers

All hosted customers should secure access to their Black Duck application by leveraging our out-of-the-box support for single sign on (SSO) via SAML or LDAP. Information on how to enable and configure these security features can be found in the installation guides. In addition, we encourage customers that are using a SAML SSO provider that offers two-factor authorization to also enable and leverage that technology to further secure access to their Black Duck application.

Deprecating Docker Compose Support

Synopsys will be deprecating support for Docker Compose starting with the Black Duck 2019.3.0 release. Docker Compose will be supported until December 31, 2019.

Upgrade Announcement for Version 2018.12.0

Customers upgrading from a version prior to 2018.12.0 will experience a longer than usual upgrade time due to a data migration that is needed to support new features in this release. Upgrade times will depend on the size of the Black Duck database. If you would like to monitor the upgrade process, please contact Synopsys Customer Support for instructions.

Announcements in Version 2018.11.0

The release version for Black Duck has been changed to better reflect synergy with other Synopsys products. The release number now is YYYY.MM.*value*, where *value* of the initial version released in a month is 0. As such, for this release, the release version is 2018.11.0.

Announcements in Version 5.0.0

dependencyScan Option

As noted in the command line output and in the documentation, the **--dependencyScan** option in the Signature Scanner has been deprecated. Black Duck Software recommends using Synopsys Detect to discover declared dependencies.

In the next major release of Black Duck, the **--dependencyScan** option will be removed.

For more information, please contact your Customer Success Manager.

Version 2019.4.3

New and Changed Features in Version 2019.4.3

Linux version of Synopsys Detect Desktop

Black Duck now provides a Linux version (`.deb` or `.rpm`) of Synopsys Detect Desktop.

The link to this version is located on the Tools page in the Black Duck UI. This link will send you to Google Cloud Storage where the Synopsys Detect Desktop downloads are located.

Fixed Issues in 2019.4.3

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

- (HUB-19435). Fixed an issue whereby all `KbReleaseUpdateJob` jobs failed.
- (HUB-19636). Fixed an issue whereby unconfirmed or ignored snippets matches were included in the use counts for a component and component version.

Version 2019.4.2

New and Changed Features in Version 2019.4.2

Ability to parse your package management files if build tools are not available

Synopsys Detect can now parse your package management files if build tools are not available. Black Duck attempts to determine the preferred match and displays the component and component version in the BOM.

To enable this feature, set the `HUB_SCAN_ALLOW_PARTIAL` environment variable to `true` in the jobrunner service in the `docker-compose.local-overrides.yml` file. For example:

```
jobrunner:
  environment: {HUB_SCAN_ALLOW_PARTIAL=true}
```

Fixed Issues in 2019.4.2

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

- (HUB-18963). Fixed an issue whereby an SSO user who did not have project-level permissions but did have full global permissions received an error when policy checking was enabled when scanning with Synopsys Detect.

- (HUB-19013). Fixed an issue whereby the VersionBomComputationJob failed after a project or project version was deleted.
- (HUB-19840). Fixed an issue whereby the SnippetAutoBomJob job failed when the code location already existed.

Version 2019.4.1

New and Changed Features in Version 2019.4.1

Code size limit warning

Black Duck now warns users when they approach or exceed their code size limit.

New restriction for Docker Swarm

Black Duck installations using Docker Swarm now require that the blackduck-upload-cache service must always run on the same node in the cluster or be backed by an NFS volume or similar system, so that data is not lost.

Fixed Issues in 2019.4.1

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

- Fixed an issue whereby the VersionBomComputationJob failed and continually restarted.
- Fixed an issue whereby scan results did not appear in the Black Duck UI.
- Fixed an issue whereby there was an inconsistency in the categorization of security risk in the Black Duck UI versus the `.csv` reports for BDSA vulnerability data.
- Fixed an issue whereby all KbReleaseUpdateJob jobs failed.

Version 2019.4.0

New and Changed Features in Version 2019.4.0

Audit trail

Black Duck now provides information on all updates and changes that affect a project and/or project version. Use this audit trail to understand who made changes or the events that caused changes to a project or project version.

This information is available on the *Project Name* or *Project Name Version Name* **Settings** tab.

Managing license terms

Black Duck now supports the ability to create custom license terms and manage existing KnowledgeBase license terms to ensure that you meet the legal obligations associated with a license. Manage license terms to help your developers know the legal obligations associated with a license and to help you bring a project into compliance with licensing obligations.

Users with the License Manager role can:

- Create, edit, or delete custom license terms.
- Associate a custom or KnowledgeBase license term to one or more custom or KnowledgeBase licenses.
- Remove custom license terms from custom or KnowledgeBase licenses.
- Remove KnowledgeBase license terms from custom licenses or KnowledgeBase licenses that were not originally defined by the Black Duck KnowledgeBase.
- Deprecate custom license terms.
- Disable or restore KnowledgeBase license terms for a KnowledgeBase license.

Snippet enhancements

In this Black Duck release, the following enhancements have been made to managing snippets:

- Black Duck now provides the ability for you to upload your source files so that BOM reviewers can see the file contents from within the Black Duck UI.

This is an optional feature which administrators can enable. Once enabled, scans must include the new **--upload-source** parameter when snippet scanning.

With the upload of source files, BOM reviewers can see a side-by-side comparison of the source file to the match which can help in the evaluation and review of the snippet match.

Note that this feature is only available for snippet scanning.

- The process to triage snippet matches has been improved to make it easier to review and manage snippet matches, even if the option to upload source files was not enabled.
- A new filter, Match Status, has been added to the BOM. Use this filter to see the unconfirmed or confirmed snippet matches in your BOM.

Improvements to the Source tab

The **Source** tab has been improved to make it easier to manage the files associated with BOM components.

Custom field enhancements

- Black Duck now supports the creation and management of custom fields for components.
- Black Duck supports policies for project custom fields that use the Drop Down, Multiple Selections, and Single Selection field types.

Redesign of the Create Policy dialog box

The Create Policy Rule dialog box has been redesigned to make it easier to create rules for all projects or filtered so that the rule only applies to specific projects.

API enhancements

- Enhanced the aggregate-bom-rest-server REST API to get the use count for a license. This API has also been enhanced to support adding a project version as a subproject.
- Enhanced the component-rest-server REST API to support component custom fields.
- Enhanced the custom-field-rest-server REST API to support custom field filters.
- Added a new REST API, journal-rest-server, to support audit trails.

- Enhanced the license-rest-server REST API to manage license term associations.
- Added a new REST API, license-term-category-rest-server, to manage license term categories.
- Added a new REST API, license-term-rest-server, to manage license terms.
- Added a new REST API, source-upload-rest-server, to support management of the upload of source files for snippet matching.
- Enhanced the source-view-rest-server REST API to support improvements to snippet matching in the **Source** tab.

Black Duck Detect Desktop

Black Duck Detect Desktop is no longer packaged with the Black Duck application and is now available from Google Cloud Storage. Providing the download from Google Cloud Storage enables Synopsys to provide quicker updates to Black Duck Detect Desktop and greater flexibility with Synopsys Detect.

The link to Black Duck Detect Desktop is still located on the Tools page in the Black Duck UI and will send you to this new download location.

LDAP Trust Store Password

As of the 2019.4.0 Black Duck release, setting the custom LDAP trust store password using an environment variable is no longer supported. Instead, you must create a docker secret. Refer to the installation guide for more information.

Supported Docker Versions

Black Duck installation supports Docker versions 17.12.x, 18.03.x, 18.06.x, and 18.09.x, (CE or EE).

Log files

Log files are now automatically purged after 14 days.

Use the DAYS_TO_KEEP_LOGS variable, as described in the installation guide, to modify this value.

Jobrunner enhancements

To increase their efficiency, jobrunners now check system resources and can dynamically adjust the number of jobs that they can run based on available resources.

External extensions

Black Duck no longer supports external extension functionality.

Japanese Language

The 2019.2.0 version of the UI, online help, and release notes has been localized to Japanese.

Fixed Issues in 2019.4.0

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

- Fixed an issue whereby a "Page not found" error message appeared if you used the SSO backdoor URL (<https://<URL>/sso/login>) and tried to log in with a local user account.
- Fixed an issue whereby an "Unknown Error" message appeared if you selected the match value in the

BOM for an ignored component.

- Fixed an issue whereby scans were empty when the hierarchical BOM feature was enabled.
- Fixed an issue whereby the file tree shown in the left pane of the **Source** tab was partially hidden when using Microsoft Edge.
- Fixed an issue whereby an "Ending write to copy failed" error message appeared when importing a JSON file.
- Fixed an issue whereby an adjustment error occurred when selecting an alternative match for a snippet.
- Fixed an issue whereby a component version could not be edited.
- Fixed an issue whereby the KbComponentUpdateJob job continued to fail after upgrading Black Duck.
- Fixed an issue whereby a scan failed if the scan or project name contained Japanese characters.
- Fixed an issue where there was extensive growth of the bdio database.
- Fixed an issue whereby Japanese characters were not supported for custom fields.
- Fixed an issue whereby all icons were not displayed in Internet Explorer 11 after reloading the Black Duck UI.
- Fixed an issue whereby a Null Pointer Exception occurred in a snippet scan.
- Fixed an issue whereby a Black Duck system that was configured to use an external database would not start.

Version 2019.2.2

New and Changed Features in Version 2019.2.2

Black Duck version 2019.2.2 incorporates scanning and matching improvements.

Fixed Issues in 2019.2.2

There were no customer-reported issues fixed in this release.

Version 2019.2.1

New and Changed Features in Version 2019.2.1

Black Duck version 2019.2.1 is a maintenance release and contains no new or changed features.

Fixed Issues in 2019.2.1

The following customer-reported issue was fixed in this release.

- Fixed an issue whereby scanning failed with an "Error in GENERATING_SIGNATURES, There exists already an object with that id" error message.

Version 2019.2.0

New and Changed Features in Version 2019.2.0

New Global Project Viewer role

There is a new role, Global Project Viewer, which has read-only access to *all* projects. Users with this role can

view the BOM for all projects and can create comments.

When you assign a user this role, they automatically have read-only access to all projects – you do not have to assign the users to the projects.

Black Duck Detect Desktop

Black Duck Detect Desktop (previously known as the Black Duck Scanner) now combines the power of Synopsys Detect with the convenience of a desktop application.

Black Duck Detect Desktop is available for MacOS 10.9 or later and Windows 7 or later.

Custom fields

Black Duck now supports the creation and management of custom fields for projects and project versions. For example, you can use custom field to include additional information to help you manage open source software in your company or organize large projects.

Improvements to Scanning Best Practices guide

The Scanning Best Practices guide has been rewritten and now includes information on configuring automated scans, optimizing scanning performance, and avoiding common scanning pitfalls.

New configuration file to support overriding default values

A new `.yaml` file, `docker-compose.local-overrides.yaml`, has been added to the Docker Compose and Docker Swarm distributions.

Use this file for edits to your local `.yaml` file when you need to customize default Black Duck settings. This file simplifies the upgrade process – your configuration changes will be retained when you upgrade to a newer version of Black Duck.

Refer to the `Readme.md` file located in the `docker-compose` or `docker-swarm` directory for information on using this file.

Policy enhancement

You can now create a policy that will trigger a policy violation when a component has an unknown version.

Custom certificate authority

Black Duck now supports the use of your own certificate authority for certificate authentication.

This feature is supported for Docker Compose and Docker Swarm.

Enhanced the database backup and migration scripts to reduce manual steps

The `hub_create_data_dump.sh` and the `hub_db_migrate.sh` scripts have been enhanced to reduce the manual steps needed to back up and restore all Black Duck databases.

Keepalive setting

For optimal Black Duck performance, Synopsys now recommends that the `net.ipv4.tcp_keepalive_time` system setting be set to a value between 600 - 800 seconds.

API enhancements

- Added a new API, custom-field-rest-server, to create and manage custom fields.
- Enhanced the project-rest-server and project-version-rest-server, to manage custom fields.

Fixed Issues in 2019.2.0

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

- Fixed an issue whereby risk bars did not appear in the Print Preview view.
- Fixed an issue whereby license metadata changes did not appear in the BOM unless a rescan was performed.
- Fixed an issue whereby a selected checkbox on the Scans page cleared after several seconds.
- Fixed an issue so that the Vulnerability Update report now has four sections coinciding with the four possible pie chart values.
- Fixed an issue whereby editing a snippet match kept the original license.
- Fixed an issue so that a user who uploads a scan to a new project via the Scanner GUI is assigned the project manager role and can view the project and add/edit/remove users from the project.
- Fixed an issue whereby JSON files could not be loaded automatically into the Black Duck Scanner.
- Fixed an issue whereby snippet source code could not be copied.
- Fixed an issue whereby the Windows scan GUI did not use proxy settings when scanning.
- Fixed an issue whereby an error message was displayed when selecting the "x new projects created this week" link on the Summary Dashboard.
- Fixed an issue whereby the *Component Name Version* page did not display multiple licenses correctly.
- Fixed an issue whereby clicking on the **Source** tab for some projects displayed a "The application has encountered an unknown error. Please check logs for more information." error message.
- Fixed an issue whereby the Create Version button did not appear when mapping a scan to a project.
- Fixed an issue whereby a SAML authentication error occurred when the user did not belong to any groups.
- Fixed an issue whereby a Null Pointer Exception was seen during a snippet scan.

Version 2018.12.4

New and Changed Features in Version 2018.12.4

Support for complex PostgreSQL usernames for external databases

Complex usernames (using special characters such as the @ symbol) are now supported for the external PostgreSQL database.

Fixed Issues in 2018.12.4

The following customer-reported issue was fixed in this release.

- Fixed an issue whereby a migration script syntax failure was seen when trying to deploy Black Duck on an Azure Kubernetes cluster.

Version 2018.12.3

New and Changed Features in Version 2018.12.3

This release addresses a high security vulnerability found in Black Duck.

Fixed Issues in 2018.12.3

The following customer-reported issue was fixed in this release.

- Fixed an issue whereby an "Update or delete on table 'V-project' violates foreign key constraints" error occurred when scanning.

Version 2018.12.2

New and Changed Features in Version 2018.12.2

Black Duck version 2018.12.2 is a maintenance release and contains no new or changed features.

Fixed Issues in 2018.12.2

The following customer-reported issue was fixed in this release.

- Fixed an issue whereby Black Duck KnowledgeBase changes to license metadata were not automatically updated in the BOM without a rescan.

Version 2018.12.1

New and Changed Features in Version 2018.12.1

Database performance improvements

Improvements have been made to the PostgreSQL database to reduce the rate of database growth over time.

Users with an existing external PostgreSQL database must do the following to see these improvements:

1. Using your preferred PostgreSQL administration tool, make these global system changes:

```
autovacuum_max_workers = 20
autovacuum_vacuum_cost_limit = 2000
```

2. Restart PostgreSQL.

Scanning performance improvements

Improvements have been made to scanning to improve performance.

Fixed Issues in 2018.12.1

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

- Fixed an issue whereby the ReportingDatabaseTransferJob for a large database ran for an extended period of time.

- Fixed an issue whereby a large number of ScanGraphJob jobs were pending.
- Fixed an issue whereby policy violations and vulnerability notifications were not being triggered when scanning projects using Jenkins.

Version 2018.12.0

New and Changed Features in Version 2018.12.0

Supported Docker versions

In this release, Docker version 17.06.x is no longer supported.

Black Duck supports Docker versions 17.09.x, 17.12.x, 18.03.x, 18.06.x, and 18.09.x (CE or EE).

Supported docker-compose version

The minimum supported version of docker-compose must be able to read Docker Compose 2.3 files.

New restriction for Docker Swarm and Kubernetes

Black Duck installations using Docker Swarm now require that the blackduck-registration service must always run on the same node in the cluster so that registration data is not lost.

This restriction also applies to Black Duck installations using Kubernetes if persistent volumes are not being used.

Custom license families

Black Duck now provides the ability for users with the License Manager role to create and manage custom license families. Use this feature so that you can ensure that your BOMs accurately show your license risk.

Custom license families:

- Consist of a name, a risk profile, and optionally, a description.
- Can be assigned to a custom license.
- Can be used to create policy rules.
- Use a combination of component usage and distribution to determine license risk.

Viewing license obligation information

You can now view license obligations using the License Management page and also when viewing license information in the BOM.

Ability to modify default usage

Black Duck now provides variables in the `blackduck-config.env` file that you can use to change the default usage for similar match types. The variables are:

- `BLACKDUCK_HUB_FILE_USAGE_DEFAULT`. Defining a usage for this variable sets the default value for the following match types:
 - Exact Directory

- Exact File
- Files Added/Deleted
- Files Modified
- Partial
- BLACKDUCK_HUB_DEPENDENCY_USAGE_DEFAULT. Defining a usage for this variable sets the default value for the following match types:
 - File Dependency
 - Direct Dependency
 - Transitive Dependency
- BLACKDUCK_HUB_SOURCE_USAGE_DEFAULT. Defining a usage for this variable sets the default value for the following match types:
 - Binary
 - Snippet
- BLACKDUCK_HUB_MANUAL_USAGE_DEFAULT. Defining a usage for this variable sets the default value for the following match types:
 - Manually Added
 - Manually Identified

Custom scan signatures - BETA

Custom scan signatures remains a beta feature in this release.

In this release:

- To improve performance, custom scan signatures have been limited to the top four levels in the directory structure.
- A Custom Signature filter has been added to the Project dashboard and the BOM page. Use this filter to find the projects that have the custom signature enabled for a project.

If you are interested in using this beta feature, please contact your Synopsys Customer Success Representative or Account Executive for more information about enabling this feature and potential impacts on scan performance.

Ability to modify PostgreSQL account names

You can now customize the PostgreSQL user and administrator usernames for external PostgreSQL databases. This feature applies to new installations and upgrades.

This feature is available for Docker Compose and Docker Swarm. Contact Synopsys Customer Support for Black Duck installations using Kubernetes or OpenShift.

Ability to easily backup all Black Duck databases

The `hub_create_data_dump.sh` and the `hub_db_migrate.sh` scripts, used to back up and restore the Black Duck database, have been enhanced to include backing up and restoring the reporting database.

Exporting a scan file

The Black Duck UI now supports the ability to export a scan file. You can use this feature in instances where

you need a scan file, for example, Customer Support may request this file if you are experiencing scanning issues.

SAML enhancements

In this release:

- Black Duck no longer needs to be restarted to enable or disable SAML.
- The SAML administration page has been enhanced so that you can easily download Black Duck's metadata XML for the SAML integration.

Additional default policy rules

There are two additional default policy rules:

- No Components Marked for Modification. Triggers a policy violation if a component has been modified.
- No Modified Components Without Description. Triggers a policy violation if a component has been modified *and* there is no description provided as to the reason for the modification.

Default policy rules are disabled by default.

Policy rule severity filter added to BOM filters

A new filter, Policy Rule Severity, has been added to the BOM page so that you can select the severity of the policy rules you wish to view in the BOM.

Reorganization of Jobs page

A new **Summary** section lists the number of successes, failures, and jobs in progress for each job for the number of days you are retaining logs (30 days by default).

Release notes reorganized

To make it easier to find the new and changed features and the defects fixed in a release, the release notes have been reorganized. There is now a single chapter, organized by release, that lists the new and changed features and the defects fixed in a release.

Enhancements to the Hierarchical BOM

In this release:

- Improvements were made to hierarchical BOM UI to make it easier to use. These include new policy violation and override icons and the icons to indicate a parent/child component.
- Components found via a dependency scan now appear in the hierarchical BOM.

API Enhancements

- Added a new REST API, component-origin-rest-server, for component origin information.
- Enhanced the component-version-rest-server API for component version filters.
- Added a new REST API, job-rest-server, for job statistics.
- Enhanced the license-family-rest-server API to support management of custom license families.
- Enhanced the meta-rest-server API to reload SSO configuration information.

- Enhanced the project-version-rest-server to get project version filters.
- Enhanced the risk-profile-rest-server API to get license filters.
- Added a new REST API, version-bom-status-rest-server, to obtain the status of the version BOM.
- In the vulnerability-rest-server API, deprecated the ability to find vulnerabilities by component as components do not have a vulnerability assigned to them.

Fixed Issues in 2018.12.0

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

- Fixed an issue whereby the bar graphs in the BOM did not render after a rescan was mapped to a new version of the original project.
- Fixed an issue whereby the incorrect output appeared when printing a BOM for a project with no results.
- Fixed an issue whereby the ReportingDatabaseTransferJob was failing for a hosted Black Duck server.
- Fixed an issue whereby the ReportingDatabaseTransferJob for a large database ran for an extended period of time.
- Fixed an issue whereby snippet scans would never complete if there were no unmatched files.

Version 2018.11.1

New and Changed Features in Version 2018.11.1

Black Duck version 2018.11.1 is a maintenance release and contains no new or changed features.

Fixed Issues in 2018.11.1

There were no customer-reported issues fixed in this release.

Version 2018.11.0

New and Changed Features in Version 2018.11.0

Custom Scan Signatures - BETA

To ensure that your BOM tracks all your code, Black Duck now provides custom scan signatures which you can use to identify third-party and proprietary software used in your code.

If you are interested in using this beta feature, please contact your Synopsys Customer Success Representative or Account Executive for more information about enabling this feature and potential impacts on scan performance.

Important: This is a beta version of the custom code signatures feature. As such, this feature may not perform as expected and is not recommended for production use. Also, there may be significant performance issues which can impact scan times when using this feature, particularly on systems with many scanned projects or very large projects. If you are interested in using this beta feature, please contact your Synopsys Customer Success Representative or Account Executive for more information about enabling this feature and potential impacts on scan performance.

Ability to configure the containers' time zone

A new environment variable, TZ, has been added. Use this variable to change the time zone for Black Duck containers so that the timestamps shown in logs reflect the local time zone.

Ability to review multiple component versions/subprojects

The BOM review process now supports bulk reviews so that you can review multiple items at a time.

Support the use of an external PostgreSQL instance without certificate authentication

Black Duck now supports the use of certificate authentication, username/password authentication, or both over SSL for external PostgreSQL databases.

License Management Enhancement

You can now select a license family in the License Management table and view a definition and risk profile for that license family.

Renamed hub-proxy.env File

To better reflect the configuration options that the file manages, the `hub-proxy.env` file has been renamed to `blackduck-config.env`.

When upgrading to 2018.11.0, you will need to copy the contents of your previous version of the `hub-proxy.env` file to the new version of the `blackduck-config.env` file.

Renamed Docker Images Files

- All images have been renamed to reflect the name change from Hub to Black Duck.
- To better support sharing and re-use of our third-party Docker images, the numbering system for the following images has been changed and now starts at 1.0.0:
 - cfssl
 - logstash
 - nginx
 - postgres
 - solr
 - zookeeper

API Enhancements

- Added a new REST API, `registration-rest-server`, for Black Duck registration information.
- Added a new REST API, `file-level-data-rest-server`, which returns file-level copyright details and file-level license data.
- Added a new REST API, `license-family-rest-server` for license family information.
- Added filter functionality to the `component-rest-server` REST API.
- Added filter and license obligation functionality to the `license-rest-server` REST API.
- Added filter functionality to the `notification-rest-server` REST API.

Note that as of this release, the first version of the `policy-rule-rest-server` API is no longer supported.

dependencyScan Option

As noted in the Black Duck 5.0.0 release notes, the **--dependencyScan** option has been removed from the command line for the Signature Scanner.

Japanese Language

The 5.0.0 version of the UI, online help, and release notes has been localized to Japanese.

Fixed Issues in Version 2018.11.0

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

- Fixed an issue whereby the **Create Version** button did not appear on the *Project Name* page when using IE11 to view the UI.
- Fixed an issue whereby selecting **Cancel** in the Edit Policy Rule dialog box saved edits to the policy rule.
- Fixed an issue whereby printing the BOM only printed the first 1000 components.
- Fixed an issue whereby the **Active Only** checkbox in the Add Group dialog box did not filter the groups.
- Fixed an issue whereby the **Settings** tab on the *Project Version Name* page did not appear when using IE11 to view the UI.
- Fixed an issue whereby searching for custom components did not show the option to view all components.
- Fixed an issue whereby the remediation update guidance feature suggested the most recent component version with the fix was a version that was older than the version with the security vulnerability.
- Fixed an issue whereby users with the Project Code Scanner role and BOM Manager role could not upload the bdio file when using the UI.
- Fixed an issue whereby the UI did not prevent an illogical policy rule from being created.
- Fixed an issue whereby selecting multiple "component in" conditions for a policy rule caused the component version to appear as a hyperlink in the Create Policy dialog box.
- Fixed an issue whereby Japanese characters appeared as collapsed in the Snippet Triage View and the Source view.
- Fixed an issue whereby users could not edit a license in the BOM.
- Fixed an issue whereby Black Duck requires IPv6 to be enabled to bring up the containers on Black Duck release 4.5 and greater.
- Fixed an issue whereby scans failed due to JDBC connection errors.

Version 5.0.2

New and Changed Features in Version 5.0.2

Black Duck version 5.0.2 is a maintenance release and contains no new or changed features.

Fixed Issues in Version 5.0.2

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

- Fixed an issue whereby the Black Duck server generated a large amount of jobrunner logs every hour.
- Fixed an issue with snippets whereby edits did not persist after unmapping and remapping a project.
- Fixed an issue whereby snippet matching failed after duplicate snippet adjustments.

Version 5.0.1

New and Changed Features in Version 5.0.1

Black Duck version 5.0.1 is a maintenance release and contains no new or changed features.

Fixed Issues in Version 5.0.1

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

- Fixed an issue whereby projects that a user had permission to view did not appear in the **Add project** menu in the BOM.
- Fixed an issue whereby a `NullPointerException` occurred when creating a `component.csv` Project Version report.
- Fixed an issue whereby a `ScanGraphJob` failed and displayed the "Error in MAPPING_PROJECTS, Graph scan does not exist" error message.

Version 5.0.0

New and Changed Features in Version 5.0.0

Black Duck Binary Analysis

Black Duck - Binary Analysis (BDBA), a new licensed feature in Black Duck, identifies the open source security, compliance, and quality risks in the software libraries, executables, and vendor-supplied binaries in use within your codebase. BDBA supports expanded file type support including various firmware formats, filesystems/disk images, installation formats, and various compression and archive formats.

After using Synopsys Detect to scan your software or firmware, the results of your scan appear in the project version BOM. For you to easily identify these files, the BOM displays the match type as Binary.

Black Duck - Binary Analysis is supported for Docker Compose, Docker Swarm, and Kubernetes.

Audit Information

Black Duck now provides the following audit information:

- Projects now provide information on the user who:
 - Created this project and the date it was created
 - Last updated this project (by modifying any project information or by adding a member) and the date it was last updated

This information is now available on the projects **Overview** tab.

- Project versions now provide the following information:
 - The user who created this project version and the date it was created.

- The user who last updated this project version settings and the date it was last updated.
- Date and time the latest scan(s) mapped to this project version completed.
- Date and time of the last KnowledgeBase update.

This information is now available on project version **Details** tab.

- Purpose. Users can now provide a purpose when adding or modifying a component in the BOM.
- Modification. Users can select a checkbox, and optionally add information as to why a component has been modified when adding or modifying a component to a BOM.

You can create policy rules using purpose and modification status as component conditions.

Ability to customize KnowledgeBase components

So that your BOM accurately reflects your project, users with the Component Manager role can:

- Modify Black Duck KnowledgeBase components and/or Black Duck KnowledgeBase component versions.
- Add notes to a KnowledgeBase component or component version.
- Undo these modifications and reset the KnowledgeBase data back to its original values.
- Define a status for a Black Duck KnowledgeBase component and/or component version to ensure that only approved components/versions are included in your BOM.

Policy management has been enhanced so that you can create policy rules on the status of the component or component version status.

Direct and Transitive Dependencies

Black Duck now distinguishes between direct and transitive dependencies. As such, two new match types, Direct Dependency and Transitive Dependency will now appear in project version BOMs.

The File Dependency match type will remain for any files scanned prior to release 5.0.0.

Log Files Now Automatically Purged

Log files older than 30 days are now automatically purged.

Black Duck provides a variable, DAYS_TO_KEEP_LOGS, so that you can customize this value.

New Job

A new job, CodeLocationDeletionJob, has been added. This job deletes scan and code location matches for a code location.

Custom Component Management Enhancements

The following enhancements have been made to custom component management:

- Ability to add tags to custom components/versions.
- Ability to add notes to custom components/versions.
- The date a custom component/version was last modified and the user who last modified it has been added to the Component Management table.

- Ability to select a status for a custom component/component version. By default, a custom component/version has an "Unreviewed" status.

Policy management has been enhanced so that you can create policy rules on the status of the custom component/ version status.

Operational Risk Enhancements

The following enhancements have been made to enable you to better manage operational risk:

- The number of commits for the last 12 months, the date of the last commit, and the number of contributors has been added to the KnowledgeBase *Component Version* page.
- Policy rules have been enhanced to include the commits in the past year and the contributors in the past year as component conditions when creating policy rules.

Local Logout Supported in SSO


When configuring SAML for Single Sign-On, Black Duck now supports local logout.

If this option is enabled, after logging out of Black Duck, the IDP's login page appears.

API Enhancements

- Enhanced the aggregate-bom-rest-server to obtain BOM component filters.
- Added a new REST API, component-filter-rest-server, to get the component approval status and source filters.
- Added a new REST API, component-version-filter-rest-server, to obtain the component version approval status.
- Enhanced the project-assignment-rest-server API, to obtain projects assigned to a user group.
- Added a new REST API, project-mapping-rest-server, to manage project mappings.
- Enhanced the tag-rest-server API, to support project tags.
- The endpoint for the code-location-rest-server API had a "Type" field which has been removed in release 5.0.0.
- The format of code location URIs has changed. Previously, it was a file path; now, it is a UUID. All APIs that accept or return these URIs are affected.

BOM Modifications Icon

To make it easier to discover changes, this icon () now indicates that a BOM has been modified. Hover over the icon to view more information on the modification.

Change in License Management Status

The "Conditionally Approved" license status has been changed to "Limited Approval."

Any policy rules that used this condition have been automatically updated.

Japanese Language

The 4.8.1 version of the UI, online help, and release notes has been localized to Japanese.

Fixed Issues in 5.0.0

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

- Fixed an issue when using SAML, Google's G_Suite did not redirect to Google for authentication.
- Fixed an issue whereby project and project version settings were not visible using IE 11.
- Fixed an issue whereby notifications could not be retrieved using the API when the code scan limit warning appeared.
- Fixed an issue whereby the `system_check.sh` script was failing.
- Logs downloaded from the Black Duck UI now includes zookeeper logs.
- Fixed an issue with the Kubernetes installation so that the webserver init script now skips the chowns of user-provided secrets for nginx.
- Fixed an issue whereby only 10 project were shown in the Add Projects dialog box.
- Performance has been improved when loading the hierarchical BOM.
- Fixed an issue whereby an error was not shown when you attempted to add the same project more than once to a group.
- Fixed an issue whereby the Group Membership column in the User Management page displayed the same group name multiple times.
- Fixed an issue with roles whereby a user could view projects that they did not have access to.
- Fixed an issue whereby snippet matching never finished successfully.
- Fixed an issue so that more than 100 users now appear in the owner list on the *Project Name* **Settings** tab.
- Fixed an issue generating a vulnerability report for a project when a subproject had a component match type not present in the main project.

Version 4.8.3

New and Changed Features in Version 4.8.3

Black Duck version 4.8.3 is a maintenance release and contains no new or changed features.

Version 4.8.2

New and Changed Features in Version 4.8.2

Black Duck version 4.8.2 is a maintenance release and contains no new or changed features.

Fixed Issues in Version 4.8.2

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

- Fixed an issue whereby accessing a direct link to a scan brought you to the Black Duck login page instead of the SSO login page.
- Fixed an issue whereby a `GraphInitializationJob` error appeared when scanning files.
- Fixed an issue whereby the jobrunner container was constantly restarting.
- Fixed an issue whereby the Black Duck Scanner displayed an "Internal Server Error" when scanning or uploading a file.

- Fixed an issue whereby long external IDs were truncated.
- Fixed an issue with the project-rest-server API whereby the offset value was calculated incorrectly.
- Fixed an issue whereby deadlock errors occurred on scan jobs.

Version 4.8.1

New and Changed Features in Version 4.8.1

Black Duck version 4.8.1 is a maintenance release and contains no new or changed features.

Version 4.8.0

New and Changed Features in Version 4.8.0

New Product Name

To better reflect Black Duck Software's alignment with the Synopsys security portfolio, Hub has been renamed to Black Duck.

Cloning Project Versions

Black Duck now lets you select an existing project version and clone its component and/or security settings to the new project version. Use cloning to help reduce your workload by using the analysis and resolutions you defined in an existing project version as a baseline for a new version.

File Level License Data

A new REST API, component-license-rest-server, has been added so that you can retrieve file level license data.

User Guide

Black Duck documentation now includes a User Guide, which contains information on using Black Duck's UI.

New Job

A new job, VersionBomComputationJob, has been added which manages version BOM computation.

New Phase for Project Versions

"Pre-release" has been added as a new phase for a project version. You can use this phase for a project that has been developed but not yet released.

Japanese Language

The 4.7.0 version of the UI, online help, and release notes has been localized to Japanese.

Fixed Issues in Version 4.8.0

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

- The vulnerability API is now returning CVSS2 scores when the score is available in Black Duck.
- Fixed an issue whereby users with the global code scanner role could not delete a report that they had

created.

- Fixed an issue whereby a user configuring LDAP using the Black Duck UI would receive a 502 error code message.
- Fixed an issue whereby the rows in a report incorrectly indicated that the rows were already expanded.
- Fixed an issue whereby the database backup did not honor symbolic links.
- Fixed an issue whereby a user with the superuser role could not view a project.
- Fixed an issue with the page layout of the BOM Comparison page.

Version 4.7.2

New and Changed Features in Version 4.7.2

Hierarchical BOM

The hierarchical BOM is now disabled by default. A new environment variable, `HIERARCHICAL_VERSION_BOM`, has been added which controls whether this feature is enabled.

Version 4.7.1

New and Changed Features in Version 4.7.1

Filtering the Component Dashboard

The behavior of the Component Dashboard has changed when filters are applied. When you select to filter by risk, either by using the advanced filters or by selecting a value using a risk graph:

- The risk graphs display a value of 0 for the values not selected in the filtered category.
- The values shown for the other risk categories display the corresponding values for the selected filter.

For example, if you select to filter the Component Dashboard to view only those components with high license risk, then the risk graphs for medium, low, and no license risk display a value of 0 and the risk graphs for security and operational risk display the corresponding values for those components with high license risk.

Fixed Issues in Version 4.7.1

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

- Fixed the labels in the Black Duck Scanner so that would display correctly when the browser's language setting is Japanese.
- Improved the performance of the project version **Security** tab.
- Fixed an issue whereby a row in the BOM table would shift when a comment was saved and before the comment icon was displayed.
- Fixed an issue whereby the tooltips on the BOM page would not close.
- Fixed an issue where a large header caused a 400 Bad Request error from NGINX.
- Fixed an issue whereby a user with the Global Code Scanner or Project Creator role received a "No results found" message on the **Affected Projects** tab.

- Improved the performance of the Component Dashboard when displaying a large number of components.
- Improved the performance of the Project Versions page when displaying a large number of versions.

Version 4.7.0

New and Changed Features in Version 4.7.0

Custom Components

So that your BOM accurately reflects your project, Black Duck now provides the ability to create custom components. This lets you use components in your BOM that are not available from the Black Duck KnowledgeBase, for example, if your project uses an open source component that is not tracked by the Black Duck KB.

Note: Contact Black Duck Customer Support for missing versions of open source components that are managed by the Black Duck KnowledgeBase.

To identify the source of the component, a new column, **Source/Type** has been added to the `component.csv` file of the Project Version report. This column can have the value of KB_COMPONENT (for Black Duck KnowledgeBase components) OR CUSTOM_COMPONENT (for custom components).

New Component Manager Role

To accommodate the new custom component feature added in 4.7.0, a new role, Component Manager, has been added to Black Duck. Users with this role can create, edit and/or delete custom components.

Hierarchical BOM View

Black Duck now provides a hierarchical view which is based on file system relationships. Use this view to see parent components and the children subcomponents which were brought in by the parent component.

With the hierarchical view of the BOM, a new job, HierarchicalVersionBomJob, has been created to update the hierarchical version of the BOM.

New Project Field

A new optional field has been added for projects. This field, **Application ID**, can be used to store an external mapping id for the project to an external system, like an asset management system or application catalog.

Ability to add comments for policy overrides or removal of overrides

Black Duck now supports the ability to add comments to policy overrides or removal of overrides.

Enhancement to BOM Comparisons

The BOM Comparison feature has been enhanced so that you can now compare BOMs across projects.

Ability to Bulk Edit Snippets

Enhancements have been made to snippets that enable bulk editing of snippets in the **Source** tab.

API Enhancements

The following improvements were made to the REST APIs:

- The component-rest-server and component-version-rest-server APIs have been enhanced to manage custom components.
- Added a new REST API, project-version-bom-comparison-rest-server, to compare BOMs.

Protex BOM Tool

As part the continuing initiative to migrate users from legacy products to the latest versions of Black Duck, the link on the Tools page that imports a Protex BOM has been removed from the 4.7.0 and later versions of Black Duck. If you would like to import a Protex BOM, specify the following URL to download the Protex BOM tool zip file: <https://<Black Duck hostname>/download/scan.protex.cli.zip>.

Changes to Jobs

The ProtexBomJob has been replaced with the following jobs:

- GraphCompletionJob – Waits for other scan/graph jobs to finish, then kicks off the ScanCompletedJob.
- GraphInitializationJob – Merges and normalizes each scan document uploaded to Black Duck.
- ScanCompletedJob – Maps code locations to projects and kicks off the ScanAutoBomJob.
- ScanMappingJob – Maps component identifiers to Black Duck identifiers.
- ScanSignatureJob – Computes signatures for all the scanned files.

Japanese Language

The 4.6.1 version of the UI, online help, and release notes has been localized to Japanese.

Fixed Issues in Version 4.7.0

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

- Fixed an issue whereby the scan status was not being updating to FAILED for orphan jobs that were rescheduled.
- Fixed an issue whereby a vulnerability report for a specific date range contained vulnerabilities that had not been updated nor changed.
- Fixed an issue where the **Scan Initiated By** field in the *Scan Name* page was not populated.
- Fixed an issue whereby the job status shown on the Jobs page was incorrect in some cases.
- Fixed an issue in the group member table whereby special characters, such as an apostrophe, in user names displayed the URL encoding for the character.
- Fixed issues with the **Affected Projects** tab so that it now sorts components and projects correctly.
- Fixed an issue whereby scans would not upload in the Black Duck UI when using Internet Explorer 11.
- Fixed an issue whereby the createVersionReport API did not work correctly unless cryptography was enabled.
- Fixed an issue whereby the BOM displayed a "No Results Found" message if you used a 2-step process to scan and then map the scan to a project.
- Fixed an issue whereby the BOM was not populated when a larger scan file was uploaded and linked to a project version after the scan's state was 'Complete'.
- Fixed an issue whereby the Sysadmin user could not be added as a project member.
- Fixed an issue with the UI that prevented a policy rule from being copied.

- Fixed an issue with a failing KbReleaseUpdateJob and the Black Duck KnowledgeBase failing to respond.
- Fixed an issue with the findBomComponentVersion API which returned a 400 error code when the component version in the BOM had a 'Reviewed' status.

Version 4.6.2

New and Changed Features in Version 4.6.2

Black Duck version 4.6.2 is a maintenance release, and contains no new or changed features.

Fixed Issues in Version 4.6.2

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

- Fixed an issue whereby the overall roles in an existing group could not be changed.
- Fixed an issue so that the performance of the Project dashboard improved.

Version 4.6.1

New and Changed Features in Version 4.6.1

Black Duck version 4.6.1 is a maintenance release, and contains no new or changed features.

Version 4.6.0

New and Changed Features in Version 4.6.0

Project Creator Role

A new role, Project Creator, has been added to Black Duck. The Project Creator can create projects and project versions and can edit these projects and version settings.

Supported Docker Versions

Black Duck no longer supports Docker version 17.03.x. Supported Docker versions are:

- 17.06.x
- 17.09.x
- 17.12.x
- 18.03.x

Cryptography Enhancements

The following enhancements have been made to the cryptography feature:

- The **Crypto** tab now includes algorithm ID, algorithm name, key length type, and key length information.
- A new file, `crypto.csv` has been added to the Project Version report. This file lists the cryptography information for each component in the project version, including the algorithm ID, algorithm name, key length type, and key length.

License Management Enhancement

A license status filter has been added to the License Management page. Possible status values are:

- Unreviewed
- Approved
- Rejected
- Conditionally Approved

API Enhancement

The following improvement was made to the REST APIs:

- Added a new REST API, tag-rest-server, for tag management.

Japanese Language

The 4.4.1 version of the UI, online help, and release notes has been localized to Japanese.

Fixed Issues in Version 4.6.0

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

- Fixed an issue with the Vulnerability Status Report, Vulnerability Update Report, Vulnerability Remediation Report, and the project version reports so that they now exclude ignored components by default.
- Fixed an issue so that email addresses are no longer required when creating or editing users.
- Fixed an issue whereby the scan status for orphaned scan jobs was not updated.
- Fixed an issue whereby vulnerability reports included vulnerabilities that were not updated or changed.
- Fixed an issue whereby the BOM Comparison page occasionally incorrectly indicated that licenses were modified.
- Fixed an issue whereby scan jobs lasting longer than 24 hours displayed an incorrect duration on the Jobs page in the Black Duck UI.

Version 4.5.1

New and Changed Features in Version 4.5.1

Black Duck version 4.5.1 is a maintenance release, and contains no new or changed features.

Version 4.5.0

New and Changed Features in Version 4.5.0

License Management

New license management options include:

- New data elements field for both custom and KnowledgeBase licenses, including License Status, Notes, and Expiration Date.
- New policy management rules capabilities for license status and expiration dates.

Snippet Matching

Customers who have purchased either the Compliance Module or the Professional Edition can now perform snippet matching. Snippet matching finds fragments of open source code used in your proprietary files or files moved into proprietary directories, and matches that code with open source code found in the Black Duck KnowledgeBase. Snippet matching does add additional scan overhead, so depending upon your usage model, additional system resources may be required for companies running multiple concurrent scans. Note that enabling snippet matching requires a registration key change. If you wish to turn this on, please contact your Black Duck representative to enable this feature.

Remediation Guidance API

The remediation guidance for a component with vulnerabilities is now available as a public API.

Expanded User Roles

Black Duck Version 4.5.0 adds new user roles. The User Role Matrix is expanded with new user roles to provide additional granularity and flexibility in setting up and managing users, projects, and rights.

New Authentication Service

A new authentication service for Black Duck 4.5.0 adds a new Docker container. This provides additional resources, and hands off the authentication.

Fixed Issues in Version 4.5.0

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

- Fixed an issue wherein a Black Duck production environment using Docker Swarm may not be able to connect to an external database.
- Fixed an issue wherein the Scan page may be blank when a scan is in progress.
- Fixed an issue wherein multiple users in the same group and having the same permissions may see different search results.
- Fixed an issue wherein some APIs were not returning the code location size.
- Fixed an issue wherein logs in logstash may not be created in a Black Duck cluster.
- Fixed an issue wherein the Add Comment text box did not have a focused cursor.
- Fixed an issue wherein running Black Duck Scanner 2.0 may display an *Unable to verify first certificate* error.
- Fixed an issue in the Protex BOM tool user interface description which now displays the correct required Java version, which is JRE 1.8.x or higher.
- Fixed an issue wherein the JobRunner may disconnect in Black Duck version 4.3.1.
- Fixed an issue wherein hosted Black Duck customers be unable to scan using the CLI.
- Fixed an issue wherein the Component Review flag was not persisting on all components.
- Fixed an issue wherein the References page may display as blank when attempting to view the details of a vulnerability database entry.

Version 4.4.3

Fixed Issues in 4.4.3

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

- Resolved an issue wherein under certain circumstances, Black Duck may display a blank page.

Version 4.4.2

New and Changed Features in Version 4.4.2

Black Duck version 4.4.2 is a maintenance release, and contains no new or changed features.

Fixed Issues in Version 4.4.2

Black Duck version 4.4.2 was a maintenance release, and contained no customer-reported fixed issues.

Version 4.4.1

New and Changed Features in Version 4.4.1

User Accounts Locked Out after 10 Failed Password Attempts

A user will be locked out of their account for 10 minutes if they fail to enter the correct password after 10 attempts. After the 10th failed attempt, a message will appear on the login page notifying the user that their account is locked.

Retaining VulnDB information

As part of the conversion from VulnDB to Black Duck Security Advisories (BDSAs), customers have the ability to retain VulnDB information associated with components found in their Bill of Materials to the external reporting database and use it for historical purposes.

Follow these instructions to capture this information:

1. Log into your Black Duck 4.4.1 system as a system admin.
2. Select **Tools > REST API Developers Guide**.
3. Select **vuln-db-report-db-copy-rest-server** API and then select the **/api/vulnerabilities/vulndb-copy** API.
4. Click **Try it Out!**.

You should receive a "202 - accepted" return code.

This will start a job that publishes your VulnDB information to your reporting database.

5. To see the progress of this job, go to the Jobs page by selecting **Administration > Jobs** and search for the following job: VulndbResultsPreservationJob.

The time to complete this process will vary based on the number of projects and components found in

your Black Duck instance. To verify that the data has been copied, log into your reporting database and query the following tables:

- vulndb_record
- vulndb_record_classification
- vulndb_record_reference_url

6. Once you have verified the data, contact your Black Duck Customer Support representative and ask them to update your registration key to enable the BDSA feed.

NTLM Support for the Black Duck Scan Client

Black Duck scan client now supports NTLM authentication.

User Login Information included in Log Files

Logs now contain information by username on successful logins, unsuccessful logins, and account lockouts.

Link to National Vulnerability Database Web Page added to Vulnerability Detail Pages

The vulnerabilities detail pages now have a link to the CVE web page maintained by the NVD for vulnerabilities that have associated CVEs.

Version 4.4.0

New and Changed Features in Version 4.4.0


Black Duck Security Advisories (BDSA)

Black Duck Security Advisories (BDSAs) are a Black Duck-exclusive vulnerability data feed sourced and curated by our Security Research team, part of the Black Duck Centre of Open Source Research & Innovation (COSRI). BDSAs offer deeper coverage for a wider set of vulnerabilities than is available through the National Vulnerability Database (NVD), and provide detailed vulnerability insight, including severity, impact, exploitability metrics, and actionable remediation guidance. BDSAs are available to new Black Duck Professional customers as well as new Black Duck Security Module customers.

For more information, please contact your Customer Success Manager.

Ability to View Components with Cryptography

Black Duck now provides information to help you identify the component versions that have encryption algorithms:

- A Cryptography filter, available in the Component Dashboard and in the component version BOM page identifies those component versions with encryption.
- A new Cryptography tab, in the *Component Version* page, provides information such as a description, home page URL, originator, licensing and patent information for any component version that has encryption algorithms.
- A new Cryptography icon () appears in the BOM page for any component version with encryption algorithms

Note: While components added manually to existing BOMs will display cryptography information, legacy BOMs may require a rescan for cryptography data to appear.

Assess to REST APIs through an API Key

Black Duck provides the ability for you to generate one or more “tokens” for accessing Black Duck APIs. These tokens are intended to replace the use of username/password credentials in integration configurations, such as Jenkins or for the Scan Client CLI. With access tokens, if a security breach occurs, the user’s credentials (which might be their SSO or LDAP credentials) are not directly compromised.

New Scan Service

For improved scalability, a new scan service has been added.

Enhancements to License Management

Black Duck now provides the ability for License Managers to globally modify the license family and text of KnowledgeBase licenses. License Managers can also restore these modified KnowledgeBase licenses to their original values.

Change in Hardware Requirements

For better performance, the minimum CPUs for installation of Black Duck has been increased from 4 to 5 CPUs.

Dependency Detection Optional in Black Duck Scanner

Dependency detection is now optional in the Signature Scanner. In the command line version of the Signature Scanner, use the new **–dependencyScan** option to enable scanning for declared dependencies.

Instead of using the **–dependencyScan** option, Black Duck recommends using Black Duck Detect to discover declared dependencies.

SAML Enhancement

You can now select to synchronize groups, whereby, upon login, groups from IDP are created in Black Duck and users will be assigned to those groups.

Column renamed in Project Version Report

Prior to Black Duck 4.4.0, the components.csv file in the Project Version report, had two columns titled "Origin id". As of 4.4.0, the second "Origin id" column has been renamed to "Origin name id".

API Enhancements

The following improvements were made to the REST APIs:

- Added a new REST API, api-token-rest-server, for use of the APIs through an API key.
- Improved the component-version-rest-server API, to obtain cryptography information.
- Added a new REST API, scan-service-proxy-rest-server, to obtain and post scan information. This REST API replaces the scan-rest-server REST API.
- Removed the autocomplete functionality from the search-rest-server API.

Enhancement to Report Database

The report database has added a new column, `related_vuln_db`, to the Component Vulnerability Table. This column provides access to the related CVE vulnerability for a BDSA.

Docker Run

Docker Run support is deprecated.

Japanese Language

The 4.3.1 version of the UI, online help, and release notes has been localized to Japanese.

Black Duck Integrations

Go to the GitHub website (<https://github.com/blackducksoftware/integration-all/>) to view available Black Duck integrations.

Enhancement to Jobs page

The Jobs page now includes a **Related to** column which provides links so that you can determine what some jobs are related to.

Fixed Issues in Version 4.4.0

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

- Docker Containers now have their root file system mounted as read only.
- Fixed an issue whereby notifications were received on ignored components.
- Fixed a discrepancy between what was displayed on the BOM page versus the Source page for component versions with multiple licenses.
- REST API sorting now works on `releasedOn` and `versionName` parameters.
- Fixed an issue whereby large scans caused deadlock errors in Job Runner.

Version 4.3.1

New and Changed Features in Version 4.3.1

End User License Agreement

A Registration & End-User License Agreement now appears the first time you access Black Duck. You must accept the terms and conditions to use Black Duck.

Fixed Issues in 4.3.1

The following customer-reported issue was fixed in this release:

- Fixed an issue whereby the job runner container became disconnected when running Black Duck with a multi-node Docker Swarm cluster.

Version 4.3.0

New and Changed Features in 4.3.0


Code Locations changed to Scans

To better reflect functionality, the menu and text in the Black Duck UI has been changed from **Code Locations** to **Scans**.

Note: For the Project Version report, the codelocations.csv file is now the scans.csv file. In this file, the first column was changed from "Code location id" to "Scan id" and the tab name has changed from "codelocations" to "scans".

Enhancements to Policy Management

The following enhancements have been made to policy management:

- Provided the ability to copy policy rules.
- Provided the ability to individually override policy rules.
- Hovering over the Policy Violation icon () now lists the individual policy rules that were violated.
- Added the ability to create a policy rule based on the component release date.
- The Policy Management page now has a filter so that you can select to view only enabled or disabled policy rules. Enabled rules are displayed by default.
- More details have been added to policy violation notifications.

Enhancements to Group Management

To let you quickly see the projects assigned to a group, the *Group Name* page now includes the **Group Projects** sections which lists the projects that this group is assigned to. Users with the sysadmin role can use this page to add or remove projects from a group.

Enhancement to User Management

- To let you quickly view the roles assigned to a user, each user's roles are now listed on the User Management page.
- So that you can easily view the projects assigned to a user, the *Username* page now includes the **Projects Access** section which shows the projects assigned to the user.

Phase Filter Added to Project Version Page

To help you view the project versions that interest you, a filter has been added to the Project Version page that lets you filter the versions shown on the page by release phase.

Enhancement to Scans page

The ability to sort by the **Scan Size** and **Mapped to** columns has been added to the Scans page.

Identical Queued Scans Now Skipped

Automation can push many scans for the same code to Black Duck causing these scans to get queued up. Now when this occurs, any non-started scans will be skipped so that the latest scan can execute faster.

API Enhancements

The following improvements were made to the REST APIs:

- Improved the notification-rest-server API to update the state of notifications.
- Added a new REST API, policy-rule-filter-rest-server, for retrieving enabled policy rules.
- Improved the user-rest-server API to obtain the current user.
- Improved the user-group-rest-server API to manage groups and users in groups: creating updating, and deleting groups and adding or removing users from groups.

Installation Guides

To make it easier to use the documentation, there are now these installation guides:

- *Installing Hub using Docker Swarm*
- *Installing Hub using Docker Compose*
- *Installing Hub using Kubernetes*

Japanese Language

The 4.2.0 version of the UI, online help, and release notes has been localized to Japanese.

Black Duck Integrations

Go to the GitHub website (<https://github.com/blackducksoftware/integration-all/>) to view available Black Duck integrations.

Tools Page Reorganization

The Tools page has been reorganized:

- To download the original Scanner and CLI, click **CLI** to download the Linux, Mac OS X, or Windows version of the Signature Scanner.
- To download the Scanner 2.0, click **Desktop** to download the Mac OS X or Windows version of the Signature Scanner.

Improved Usability

Various usability improvements have been made to Black Duck to increase consistency across the application and make it easier to use.

Fixed Issues in Version 4.3.0

The following customer-reported issue was fixed in this release:

- Fixed an issue where Solr would not start as the solr container did not clean stray lock files before startup.

Version 4.2.0

New and Changed Features in Version 4.2.0

License Management

Black Duck now provides the ability to create custom licenses. You can use this feature if you determine that a license that you use for a component in your BOM is not available from the Black Duck KnowledgeBase,

To help you manage licenses, a new License Management page has been added to Black Duck. This page displays custom licenses you have created and the licenses from the Black Duck KnowledgeBase. From this page you can view license text for any license and view the components/subprojects where specific licenses are used.

New License Manager Role

To accommodate the new license management feature added in 4.2.0, the License Manager role has been added to Black Duck. Users with this role can review, create, edit, and delete custom licenses. The new License Management page is also only visible to users with the new License Manager role.

OpenShift Support

Black Duck version 4.2.0 features support for OpenShift Enterprise 3.5 using an external database with PostgreSQL version 9.6.x.

For additional information, contact Black Duck Support.

Ability to Compare BOMs

Black Duck now provides the ability to compare the BOMS of two different versions of a project. The comparison shows the adjustments to components – new, removed, and adjusted components (components whose usage, license, or version has changed) – that occurred in the BOM and the associated change to the security risk.

Enhanced Vulnerability Data

Black Duck now reports Common Vulnerability Scoring System (CVSS) version 3.0 scores and Common Weakness Enumeration (CWE) information for security vulnerabilities.

Ability to Configure Black Duck Session Timeout Value

A new property, `HUB_WEBAPP_SESSION_TIMEOUT`, has been added to the `hub-proxy.env` file so that you can configure a session timeout value.

PostgreSQL version

For Black Duck version 4.2.0, the currently-supported version of PostgreSQL is 9.6.x, which is the version supplied in Black Duck's PostgreSQL container. If you choose to run your own PostgreSQL instance, you must be at PostgreSQL version 9.6.x for compatibility with Black Duck version 4.2.0.

If you are upgrading from a previous version of Black Duck, you will need to run a migration script prior to upgrading to version 4.2.0. Refer to the *Black Duck Hub Installation Guide* for more information.

LDAP Configuration

You no longer have to manually manage the certificate exchange. You can now use Black Duck UI to manage the certificate exchange between the LDAP server and Black Duck.

Subprojects Information Included in Reports

Reports now include subproject information for users that have permission to the subproject.

Enhancement to Policy Rules

You can now create a policy rule based on the review status of a component.

Japanese Language

The 4.1.0 version of the UI, online help, and release notes has been localized to Japanese.

API Enhancements

The following improvements were made to the REST APIs:

- Improved the license-rest-server API to provide the ability to update and delete licenses and update license text.
- Improved the aggregate-bom-rest-server API, to add BOM components.
- Improved the vulnerability-rest-server API, to obtain Common Weakness Enumeration (CWE) information.
- Added a REST API, meta-rest-server, to provide the current version of Black Duck.

Black Duck Integrations

The following Black Duck integrations are now available from the GitHub website (<https://github.com/blackducksoftware/integration-all/>):

- Black Duck Artifactory Plugin
- Black Duck Bamboo Plugin
- Black Duck Gradle Plugin
- Black Duck Eclipse Plugin
- Black Duck Jenkins Plugin
- Black Duck JIRA Plugin
- Black Duck Maven Plugin
- Black Duck NuGet Plugin
- Black Duck PIP Plugin
- Black Duck SBT Plugin
- Black Duck Team City Plugin
- Black Duck Team City Foundation Server Plugin
- Black Duck Visual Studio Plugin
- Black Duck Email Extension
- Black Duck Docker Inspector
- Black Duck Detect

Note: For complete information on Black Duck integration products, including the latest release version number, refer to the Black Duck Integrations documentation website (<https://blackducksoftware.atlassian.net/wiki/spaces/INTDOCS/overview>).

Improved Usability

Various usability improvements have been made to Black Duck to increase consistency across the application and make it easier to use.

Fixed Issues in 4.2.0

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

- The Security tab now displays the list of vulnerabilities by descending order of the base score so that the more severe vulnerabilities are now at the top of the page and easier to locate.
- Fixed a timeout issue where the Black Duck UI displayed "The Hub server did not respond in time" message when loading component matches in the Code Location page.
- A scan status has been added to the header on the BOM page to indicate whether the scan has succeeded or failed.
- The NVD URL link provided in the `security.csv` report has been updated.
- Fixed an issue where users could not edit the reviewed components checkbox in a project version BOM.
- Fixed an issue whereby a project member with no other roles could not create a comment.
- The Web API documentation for the report API now provides information on what options are available for each request parameter.
- Fixed an issue with the reporting database whereby a reporting database transfer job was failing.
- Fixed an issue with the vulnerability API capping the number of results to 100 items.
- Fixed an issue with email addresses in Active Directory causing the incorrect user avatar to be displayed.
- Fixed an issue with the code-location-rest-server API whereby the sorting order was not working correctly.
- Fixed an issue where the KBVulnerabilityVdbUpdateJob shown on the Jobs page displayed an error status every 30 minutes.
- Fixed an issue whereby vulnerability reports were failing for a project with a large number of components.

Version 4.1.2

New and Changed Features in Version 4.1.2

Logging out of Black Duck

Black Duck does not support SP-Initiated IdP logout (SLO). When SSO users log out of Black Duck, a logout page now appears notifying them that they successfully logged out of Black Duck. This logout page includes a link to log back into Black Duck; users may not need to provide their credentials to successfully log back in to Black Duck.

Version 4.1.1

New and Changed Features in Version 4.1.1

Support for IDP Metadata XML File for SAML

Black Duck now supports the ability to supply Identity Provider metadata using an xml file.

Fixed Issues in 4.1.1

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

- Fixed an issue where the total scan size did not equal the reported scan size as shown on the Code Locations page.
- Fixed an issue where license risk was not recalculated after the project distribution was changed.
- Fixed an issue when creating a policy rule where selecting additional licenses or projects removed the previous selection.
- Fixed an issue with the reporting database whereby a reporting database transfer job was failing.

Version 4.1.0

New and Changed Features in Version 4.1.0

Kubernetes Support

Black Duck version 4.1.0 features support for Kubernetes. For additional information, contact Black Duck support.

New Signature Scanner 2.0 - BETA

A Beta version of the Signature Scanner - 2.0 is now available from the Tools page of the Black Duck UI.

API Enhancements

The following improvement was made to the REST APIs:

- Added review status to public BOM API.
- Added policy status to public component BOM API.
- Improved the user-group-rest-server API to add, edit, and remove a role.
- Added a REST API, project-assignment-rest-server, to assign and remove users and user groups from projects.
- Improved the component-version-rest-server and aggregate-bom-rest-server APIs to provide actual license text for components.

Documentation container

The documentation for Black Duck is now managed in a container which will enable faster updates to the documentation.

LDAP logging

Black Duck log files now indicate if LDAP is enabled or disabled.

PostgreSQL version

For Black Duck version 4.1.0, the currently-supported version of PostgreSQL is 9.4.11, which is the version supplied in Black Duck's PostgreSQL container. If you choose to run your own PostgreSQL instance, you must be at PostgreSQL version 9.4.11 for compatibility with Black Duck version 4.1.0.

For Black Duck versions higher than 4.1.0, be sure to check the *Black Duck Release Notes* for possible updated PostgreSQL version requirements prior to upgrading.

Black Duck Integrations

New versions of the following Black Duck integrations are now available from the GitHub website (<https://github.com/blackducksoftware/integration-all/>):

- Black Duck Artifactory Plugin
- Black Duck Bamboo Plugin
- Black Duck Gradle Plugin
- Black Duck Jenkins Plugin
- Black Duck JIRA Plugin
- Black Duck Maven Plugin
- Black Duck NuGet Plugin
- Black Duck PIP Plugin
- Black Duck Team City Plugin
- Black Duck Team City Foundation Server Plugin
- Black Duck Eclipse Plugin
- Black Duck Visual Studio Plugin
- Black Duck Email Extension
- Black Duck Docker Inspector
- Black Duck SBT Plugin

Note: For complete information on Black Duck integration products, including the latest release version number, refer to the Black Duck Integrations documentation website (<https://blackducksoftware.atlassian.net/wiki/spaces/INTDOCS/overview>).

Fixed Issues in Version 4.1.0

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

- Fixed an issue with Docker containers not starting due to possible version incompatibilities with older version of CentOS.
- Fixed an issue which may have caused failures when using the BOM import/export tool to import a Bill of Materials (BOM).
- Fixed an issue in the REST API wherein the \ character was not properly encoded in JSON output.
- Fixed an issue wherein match type changes made in Black Duck user interface were not always propagating to reports.
- Fixed an issue wherein BOM paths containing Chinese characters may fail.

Version 4.0.0

New and Changed Features in Version 4.0.0

Summary Dashboard

A new Summary Dashboard has been added to Black Duck. This dashboard provides you with a view of the overall health of the projects you have permission to view and helps you to identify areas of concern. Use this dashboard to view business critical information so you can quickly assess areas where you need to focus your attention.

External PostgreSQL Database

Black Duck now supports using Amazon Relational Database Service (RDS) for an external PostgreSQL database.

Remediation Guidance - BETA

A new Beta feature is available in Black Duck. For components in your BOM that have vulnerabilities, Black Duck provides guidance as to what other component versions are available and whether there is a version that fixes the security vulnerability that affects the component version used in your BOM. You can use this information to guide you in determining how to remediate a security vulnerability.

Cross-site Request Forgeries

Black Duck version 4.0.0 now features improved security for attempted cross-site request forgeries (CSRF).

SAML for Single Sign-On Support

Black Duck now supports the Security Assertion Markup Language (SAML) authentication protocol which enables Multi-Factor Authentication (MFA), Single Single Sign-On (SSO) and other capabilities.

Web Server Configuration Settings

You can now configure the following web server settings:

- Host port
- IPv4/IPv6

Default User Landing Page

So that you can quickly view the dashboard that interests you, the dashboard page that appears when you log in depends on the last main dashboard (**Projects**, **Components**, **Security**, or **Summary**) you viewed prior to previously logging out.

Improvements to the Notices File Report

To simplify the creation of the Notices File report, Black Duck now displays and reports on the actual license text for licenses which are typically modified for each OSS component. Currently, Black Duck provides the actual license text for the MIT, variants of the BSD, and the ISC licenses, which are the top components in our KnowledgeBase, based upon customer usage.

New Black Duck Module

A new module, the OSS Notices Report, is now available and the existing OSS Attribution module has been

modified. The Notices File report is now included with this new OSS Notices Reports module which is part of the License Compliance offering. If you do not have the OSS Notices Reports module, the Notices File report is no longer available to you.

Improvements to the Report Database

The report database now provides access to the policy approval status, usage, and match type for a component.

Signature Scanner Command Line Improvements

- The **dryRunReadFile** parameter can now be used to upload individual BOM (.jsonld) files, without the corresponding scan container (.json) file.
- The **password** parameter is no longer supported. If you supply an argument to the **password** parameter, the scan will not complete. Instead, you must set the **BD_HUB_PASSWORD** environment variable with Black Duck server password.

Improvements to Scanning Containers

The script used to scan Docker images, `scan.docker.sh`, has been improved to include package manager level inspection. Also, an automatic update feature has also been added to the script so that you can easily obtain the latest version of this script.

Note: To take advantage of the automatic update feature now available in this script, you need to ensure connectivity (via whitelisting or other means) to the github.com domain (blackducksoftware.github.com).

Commercial Components

Commercial components are now identified as such in search results.

Basic Authentication Support

Black Duck now supports basic authentication for a proxy.

Scanning Improvements

Enhanced matching algorithms and new Black Duck KB data elements have been added to improve matching accuracy with fewer false positives. This applies to many types of scans, but is particularly effective with Debian packages.

Japanese Language

The 3.7.0 version of the UI, online help, and release notes has been localized to Japanese.

Black Duck Integrations

New versions of the following Black Duck integrations are now available from the GitHub website (<https://github.com/blackducksoftware/integration-all/>):

- Artifactory Plugin version 3.0.0 and later
- Bamboo Plugin version 3.1.0 and later
- Gradle Plugin version 5.0.1 and later

- Jenkins Plugin version 2.2.1 and later
- JIRA Plugin version 3.3.1 and later
- Maven Plugin version 2.0.1 and later
- NuGet Plugin version 1.1.0 and later
- Pip Plugin version 1.1.0 and later
- Team City Plugin version 3.1.0 and later

Improved Usability

Various usability improvements have been made to Black Duck to increase consistency across the application and make it easier to use.

Fixed Issues in Version 4.0.0

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

- Fixed an issue with the formatting of the text version of the Notices Report file.
- Fixed an issue with Black Duck reports which displayed an incorrect column title for the component name.
- Fixed an issue whereby the Signature Scanner would fail if its own path contained a space.
- Exclude patterns now work when scanning on Windows.
- The Signature Scanner no longer inserts a `<%=moduleName%>` tag in a .jsonld file.
- Fixed an issue whereby the script used to create custom certificates did not create a permanent image of the container used to save the certificate configuration changes.

Version 3.7.1

Fixed Issues in Version 3.7.1

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

- Fixed an issue with the reporting database whereby a reporting database transfer job was failing.
- Fixed a usability issue so that on a Mac, you can use the CMD key when selecting a link to open the link in a new tab.
- The Registration page now displays the correct code base limit.

Version 3.7.0

New and Changed Features in Version 3.7.0

New Black Duck Docker Architecture

The new architecture for Black Duck is now available. This new architecture consists of "dockerizing" Black Duck so that different components are containerized which allows other orchestration tools to manage all of the individual containers. Supported orchestration tools for this release are:

- Docker Compose
- Docker Run

■ Docker Swarm

You can install this version of Black Duck as a new installation or upgrade from a previous version, comprised of the old architecture.

Black Duck Docker images are available for download in the Docker Store Black Duck (<https://hub.docker.com/u/blackducksoftware/>) repository.

The orchestration files are located here:

<https://github.com/blackducksoftware/hub/raw/master/archives/hub-docker-3.7.0.tar>

The *Hub Installation Guide (Docker)* describes the installation, migration, and upgrade process.

Issue Tracker

A new Issues tab is available in the Black Duck UI. This tab displays the issues associated with a project version as monitored by an issue tracking product. Currently this feature is supported using the Black Duck-JIRA plugin (version 3.3.0 and higher).

Improvement to the Report Database

The report database now provides access to component vulnerability data. It also includes data as to whether a component version is ignored.

Enhancements to Policy Rules

The "does not equal" and "not in" operators have been added for component version policy rules. With these operators, you can now more easily create whitelist policy rules, such as creating a policy rule that triggers a policy violation when a specific versions of a component are *not* used.

Code Scanner Role

The code scanner role has been modified. Users with only this role can no longer see the BOMs associated with the code location scans.

API Enhancements

The following improvement was made to the REST APIs:

- Added a REST API, bom-component-issue-rest-server, to add, update, and delete issues for component versions.

Black Duck Integrations

New versions of the following Black Duck integrations are now available from the GitHub website (<https://github.com/blackducksoftware/integration-all/>):

- Eclipse Plugin version 1.0.0 and later
- Gradle Plugin version 5.0.0 and later
- JIRA Plugin version 3.3.0 and later
- NuGet Plugin version 1.0.0 and later
- Pip Plugin version 1.0.0 and later
- SBT Plugin version 1.1.0 and later

- Team City Plugin version 3.0.2 and later
- Visual Studio Plugin version 1.0.0 and later

Japanese Language

The 3.6.0 version of the UI, online help, and release notes has been localized to Japanese.

Improved Usability

Various usability improvements have been made to Black Duck to increase consistency across the application and make it easier to use.

Chapter 3: Known Issues and Limitations

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

- The media types shown in the REST API Developers Guide documentation may be incomplete.

- If you notice performance issues, do the following:

1. Log into the server that is running the docker container.

2. Determine the container ID:

```
docker ps | grep postgres
```

3. Start PostgreSQL against the docker container.

```
docker exec -it <container id> psql -d bds_hub
```


4. At the Postgres prompt, execute the following query:

```
ALTER SYSTEM SET max_wal_size = '8GB'
```

5. Restart Black Duck.

- Searching for a project by name in Black Duck may not display any results. To resolve this issue:

1. Log in to Black Duck with the System Administrator role and select **Administration** from the

expanding menu icon ().

2. Select **System Settings**.

3. Click **Reindex** which will reindex the projects and resolve this issue.

- 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.