



## Release Notes

Version 2020.2.0



This edition of the *Release Notes* refers to version 2020.2.0 of Black Duck.

This document created or updated on Tuesday, February 25, 2020.

**Please send your comments and suggestions to:**

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## Black Duck documentation

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

Title	File	Description
Release Notes	release_notes.pdf	Contains information about the new and improved features, resolved issues, and known issues in the current and previous releases.
Installing Black Duck using Docker Swarm	install_swarm.pdf	Contains information about installing and upgrading Black Duck using Docker Swarm.
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.
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](mailto: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](mailto: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>.

## Announcement for Version 2020.2.0

### Individual file matching

As previously announced, to reduce false positives due to ambiguous matches, performing individual file matching as a part of signature scanning is no longer the default behavior for Black Duck CLI and Synopsys Detect scans.

Individual file matching is the identification of a component based purely upon the checksum information of a single file. In Black Duck, for a small set of file extensions (.js, .apklib, .bin, .dll, .exe, .o, and .so), regular signature scanning matches files to components based upon a checksum match to the one file. Unfortunately, this matching is not always accurate and produced a fair amount of false positives. In order to improve upon the overall developer experience across the broad Synopsys customer base, individual file matching is no longer the default behavior and instead is now an optional capability.

Upgrading to 2020.2.0 will turn individual file matching off and may cause some components to drop off the BOM. To estimate the impacts to your BOM, please look for components with only the match type of "Exact File" to see components that may drop from your BOM. Please note, if you are scanning docker images, "Exact File" matches are not impacted by this change.

The Signature Scanner has a new parameter to enable individual file matching. if you are using Synopsys Detect to scan, version 6.2 will have a new parameter to support turning on/off individual file matching, with the default being "off".

### Docker Compose support

As announced previously, Docker Compose is no longer a supported orchestration method with the 2020.2.0 release.

## Announcement for Version 2019.12.0

### Upgrading Black Duck

During the upgrade process, as part of the changes made to the reporting database, a migration script will run to purge rows that are no longer used in the `audit_event` table. This migration script may take some time to run, depending on the size of the `audit_event` table. As a guide, the migration script ran approximately 20 minutes for an `audit_event` table sized at 350 GB.

⚙ To determine the size of the audit event table:

Do one of the following:

- From the `bds_hub` database, run the following command:

```
SELECT pg_size_pretty( pg_total_relation_size('st.audit_event') );
```

- Log in to the Black Duck UI with the system administrator role and do the following:

1. Click the expanding menu icon  and select **Administration**.

The Administration page appears.

2. Select **System Administration** to display the System Information page.
3. Select **db** in the left column of the page.
4. Scroll to the **Table Sizes** section. Find the `total_tbl_size` value for the `audit_event` tablename.

For on-premise Kubernetes and OpenShift users, before upgrading, disable the liveness check (`--liveness-probes false`), upgrade Black Duck, and then wait for the user interface to appear. Once the user interface appears, enable the liveness check (`--liveness-probes true`).

After the migration script runs, Synopsys *strongly recommends* running the `VACUUM` command on the `audit_event` table to optimize PostgreSQL performance.

- Depending on your system usage, running the `VACUUM` command can reclaim a significant amount of disk space no longer in use by Black Duck.
- By running this command, querying performance will be improved.

**Note:** If you do not run the `VACUUM` command, there may be a degradation of performance.

Note that this command requires twice the amount of disk space currently being used by the `audit_event` table.

**Important:** You must ensure you have enough space to run the `VACUUM` command, otherwise, it will fail by running out of disk space and possibly corrupting the entire database.

- ⚙ To run the `VACUUM` command for Docker Compose and Docker Swarm users with containerized PostgreSQL database deployments:

1. Determine the size of the `audit_event` table as previously described.
2. Determine the container ID of the PostgreSQL container by running the following command:

```
docker ps
```

3. Run the following command to manage the PostgreSQL container:

```
docker exec -it <container_ID> psql bds_hub
```

4. Run the following command:

```
VACUUM FULL ANALYZE st.audit_event;
```

For Docker Compose and Docker Swarm users with an external PostgreSQL database deployment: determine

the size of your `audit_event` table, execute the `VACUUM` command and, once complete, restart your deployment.

For on-premise Kubernetes and OpenShift users, refer to the Synopsys Operator upgrade instructions for more information.

## Individual File Matching in the upcoming 2020.2.0 release

To reduce false positives due to ambiguous matches, starting in Black Duck version 2020.2, performing individual file matching as a part of signature scanning will no longer be the default behavior for Black Duck CLI and Synopsys Detect scans.

Individual file matching is the identification of a component based purely upon the checksum information of a single file. In Black Duck, for a small set of file extensions (`.js`, `.apklib`, `.bin`, `.dll`, `.exe`, `.o`, and `.so`), regular signature scanning matches files to components based upon a checksum match to the one file. Unfortunately, this matching is not always accurate and produces a fair amount of false positives. These false positives require you to spend additional effort to review and adjust the BOM. Though some users may desire this level of precision and granularity in their BOMs, a majority of customers do not desire or need this level of matching. Therefore, based upon customer and field input, in order to improve upon the overall developer experience across the broad Synopsys customer base, individual file matching will no longer be the default behavior and instead will become an optional capability.

This may cause some components to drop off your BOM, which may or may not be desired. Therefore, in the Black Duck 2020.2 release, Synopsys will provide mechanisms so that you can re-enable individual file matching, including in the CLI, Synopsys Detect, and Synopsys Detect (Desktop).

## Docker Compose support

As of December 31, 2019, Docker Compose is no longer supported.

## Announcement for Version 2019.10.0

### Redesigned Report Database

The Reporting Database is a capability in Black Duck which allows customers to use third party BI/reporting tools over the data from Black Duck. In order to improve the administration, stability, and functionality of the reporting database, the 2019.10.0 release has made some significant changes to the reporting database. If you use the reporting database, these updates will require action and change on your part in order to have continued, uninterrupted use of the reporting database.

In order to make it easier for you to quickly create, use, back up, and restore your reporting database, the tables from the separate reporting database (`bd_hub_report`) have been moved to the `reporting` schema in the Black Duck database, `bds_hub`, with a default update frequency of every 8 hours (which can be adjusted). In addition, we have also added new information to the reporting database and you can now create reports which include file/directory and package match information as well. As a result of the improvements, if you are using the report database, you will need to change your database connection string for any tools/utilities/queries to point to the `bds_hub` database and no longer use the `bd_hub_report` database. Any reports (or any queries) will fail unless you change the database connection string to point to the `bds_hub` database as the tables in the old database have been dropped.

Please note that after the 2019.10.0 release, there will be a delay for any changes made in Black Duck to

appear in the report database. The length of time for this delay depends on the value you specified using the new BLACKDUCK\_REPORTING\_DELAY\_MINUTES environment variable, which by default, equals 8 hours. Customers with Black Duck installed on premise can refer to the appropriate install guide for their platform for information on how to change this frequency. Hosted customers should notify Synopsys Support if they would like to change this value.

## Announcement for Version 2019.8.0

### Upgrade Announcement for Version 2019.8.0

For customers upgrading from a version prior to 2019.8.0, two jobs, the VulnerabilityRepriorizationJob and the VulnerabilitySummaryFetchJob, will run at startup to synchronize vulnerability data.

These jobs may take some time to run and the overall vulnerability score for existing BOMs will not be available until these jobs complete. Users with the System Administrator role can use the Black Duck Jobs page to monitor these jobs.

## 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 2019.2.0 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.

## Announcement 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.

## Announcement 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 2020.2.0

#### New and Changed Features in Version 2020.2.0

##### Individual file matching

Individual file matching as a part of signature scanning is no longer the default behavior for the Black Duck CLI and Synopsys Detect scans.

This change may cause some components to drop off your BOM, which may or may not be desired. Therefore, in the Black Duck 2020.2.0 release, you can re-enable individual file matching.

The Signature Scanner has a new parameter **--individualFileMatching** which has three options so that you can enable individual file matching:

- **source**. Performs individual file matching only on files with this extension: `.js`.
- **binary**. Performs individual file matching on files with these extensions: `.apklib`, `.bin`, `.dll`, `.exe`, `.o`, and `.so`.
- **all**. Performs individual file matching on all files with these extensions: `.js`, `.apklib`, `.bin`, `.dll`, `.exe`, `.o`, and `.so`.

if you are using Synopsys Detect to scan, version 6.2 will have a new parameter to support turning on/off individual file matching, with the default being "off".

##### Docker Compose

As Docker Compose is no longer supported, the Docker Compose directory has been removed from the distribution and the *Installing Black Duck using Docker Compose* guide is no longer provided.

##### Embedded license detection

Black Duck can now detect instances of embedded open source licenses not declared by the Black Duck KnowledgeBase for a component.

By enabling detection of deep license data when scanning code, users focused on license compliance can view the licenses that were detected in their open source to ensure there are no problematic licenses and that all licenses are accounted for in their BOM.

With this feature, Black Duck performs a search for license string text and displays the licenses found in the **Source** tab.

Optionally, upload your source files so that BOM reviewers can view discovered license text from within the

### Source tab.

The Signature Scanner has a new parameter **--license-search** to enable searching for embedded licenses. A property to enable deep license data detection will be available in Synopsys Detect version 6.2 and later.

### Deep license data added to reports

The component project version report, `components_date_#.csv`, and the component additional fields report, `bom_component_custom_fields_date_#.csv`, have been enhanced to include deep license data.

The new columns are:

- Deep License Ids
- Deep License Names
- Deep License Families

These fields were added to the end of the `components_date_#.csv` report and prior to the custom fields columns in the `bom_component_custom_fields_date_#.csv` report.

Deep license data has also been added to the Notices File report. This information can be seen in the list of licenses shown for a component as shown in the **Components** section of the report and in the license text shown in the report.

### Additional information added to security project version report

The `security_date_time.csv` report has been enhanced and the following fields have been added to the end of the report:

- Overall score
- CWE Ids
- Solution available
- Workaround available
- Exploit available

### Improved formatting of copyright reporting in Notices report - Beta

Additional improvements have been made to the formatting of copyright reporting in the Notices report. This feature is *optional* and is currently a Beta feature.

### New project version BOM filter

A new filter has been added to the BOM page so that you can view those components that have or do not have comments.

### Project version Security tab

The **Published** column has been added to the table shown in the project version **Security** tab.

### Consolidated job

To improve job scheduling, a new job, `KbUpdateJob`, replaces the following jobs:



- KbComponentUpdateJob
- KbVersionUpdateJob
- KbVulnerabilityUpdateJob
- KbVulnerabilityBdsaUpdateJob

## External PostgreSQL database

For users with an external PostgreSQL database, Synopsys recommends upgrading to version 9.6.16 as it includes performance-related fixes. This is the version in the database container.

Also, if your third-party database provider permits it, Synopsys recommends that external PostgreSQL users tune their database by running the following commands:

```
alter system set autovacuum_max_workers = 8 ;
alter system set autovacuum_vacuum_cost_limit = 800 ;
```

and then restart PostgreSQL.

If your third-party database provider does not permit tuning, you do not need to do anything.

## Unmapped code locations

Black Duck now provides the capability for you to schedule the cleanup of code locations not mapped to a project version. Configure the `BLACKDUCK_HUB_UNMAPPED_CODE_LOCATION_CLEANUP` and `BLACKDUCK_HUB_UNMAPPED_CODE_LOCATION_RETENTION_DAYS` properties in the `blackduckconfig.env` file.

## API Enhancements

- A new matched components endpoint:  
`/api/projects/{projectId}/versions/{projectVersionId}/matched-components`
- The following endpoint now returns a `matchConfidencePercentage`:  
`/projects/{projectId}/versions/{projectVersionId}/matched-files`
- New vulnerability reports endpoint to show status of all created vulnerability reports:  
`/api/vulnerability-reports`
- The following endpoints are intended as a replacement for the existing remediation guidance feature:  
`/api/components/{componentId}/versions/{componentVersionId}/upgrade-guidance`  
`/api/components/{componentId}/versions/{componentVersionId}/origins/{originId}/upgrade-guidance`
- Added ignored field to the vulnerable BOM components endpoint, which enables filtering based on ignored and unignored components:  
`GET /api/projects/{projectId}/versions/{projectVersionId}/vulnerable-bom-components`

## Supported browser versions

- Safari Version 13.0.4 (14608.4.9.1.4)
- Chrome Version 80.0.3987.100 (Official Build) (64-bit)
- Firefox Version 72.0.2 (64-bit)
- Internet Explorer 11.657.18362.0
- Microsoft Edge 44.18362.449.0
- Microsoft EdgeHTML 18.18363

## Container versions

- blackducksoftware/blackduck-postgres:1.0.11
- blackducksoftware/blackduck-cfssl:1.0.1
- blackducksoftware/blackduck-logstash:1.0.6
- blackducksoftware/blackduck-zookeeper:1.0.3
- blackducksoftware/blackduck-nginx:1.0.17
- blackducksoftware/blackduck-upload-cache:1.0.12
- blackducksoftware/blackduck-authentication:2020.2.0
- blackducksoftware/blackduck-webapp:2020.2.0
- blackducksoftware/blackduck-scan:2020.2.0
- blackducksoftware/blackduck-jobrunner:2020.2.0
- blackducksoftware/blackduck-registration:2020.2.0
- blackducksoftware/blackduck-documentation:2020.2.0
- sigsynopsys/appcheck-worker:2019.12
- blackducksoftware/rabbitmq:1.0.3

## Japanese Language

The 2019.12.0 version of the UI, online help, and release notes has been localized to Japanese.

## Fixed Issues in 2020.2.0

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

- (Hub-20742). Optimized the queries for retrieving data for the Affected Projects page.
- (Hub-20821). Fixed an issue whereby an error message stating that the Black Duck search service was unavailable appeared when adding a component or project.
- (Hub-21833). Fixed a filter issue whereby a user could view components of all projects, instead of just their projects.
- (Hub-22181). Fixed an issue whereby component name and version links were missing on the **Source** tab.
- (Hub-22267). Fixed an issue where the **Created By** column was empty in vulnerability reports.
- (Hub-22310). Fixed an issue whereby the base score for a vulnerability was different in the UI versus in an exported report.
- (Hub-22335). Fixed an issue whereby custom fields were not visible unless the user had the global

project viewer role.

- (Hub-22380). Fixed an issue whereby after cloning a project version, notifications for policy violations were still triggered although the policy had been overridden.
- (Hub-22466). Fixed an issue whereby inactive users were not hidden when selecting project owners.
- (Hub-22510). Fixed an issue whereby custom components could not be found when adding or editing a component.
- (Hub-22615). Fixed an issue whereby the KBReleaseupdatejob kept failing.
- (Hub-22626). Fixed an issue whereby scans remained in the post-scan phase but results were uploaded successfully to Black Duck.
- (Hub-22677). Fixed an issue whereby a component could not be unignored.
- (Hub-22681). Fixed an issue whereby adding a subproject that contained snippets skewed the subproject's component count.
- (Hub-22709). Fixed an issue whereby only 10 values were shown for the dropdown project custom field when creating a policy.
- (Hub-22805). Fixed an issue whereby the `source_date_time.csv` report was empty.
- (Hub-22811). Fixed an issue whereby "role "blackduck\_user" does not exist" was seen when attempting to install Black Duck with an external database.
- (Hub-22850). Fixed an issue whereby the `license_term_fulfillment_date_time.csv` report was empty.

## Version 2019.12.1

### New and Changed Features in Version 2019.12.1

#### SSO security enhancement

Black Duck has improved the security of the communication between Black Duck and Single Sign-On (SSO) providers. Black Duck now requires that you provide an assertion signature as part the signed response when you configure your SSO Identity Provider (IdP). Although Synopsys does not recommend it, if your IdP is unable to provide this signature, you can disable this added security. Refer to the installation guide for more information.

#### API enhancement

- New API to update the remediation status of a vulnerability. BOM Component Version vulnerability remediation enables users to read or update the vulnerability remediation status and to add a comment.

Components added without an origin can be accessed with:

```
https://.../api/projects/{projectId}/versions/{versionId}/components/{componentId}/versions/{componentVersionId}/vulnerabilities/{vulnerabilityId}/remediation
```

Components added with an origin can be accessed with:

```
https://.../api/projects/{projectId}/versions/{versionId}/components/{componentId}/versions/{componentVersionId}/origins/{originId}/vulnerabilities/{vulnerabilityId}/remediation
```

## Container information

The 2019.12.0 release notes listed the incorrect version of the blackducksoftware/blackduck-upload-cache container. The correct version is blackducksoftware/blackduck-upload-cache:1.0.12.

## Fixed Issues in 2019.12.1

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

- (Hub-21861). Fixed an issue whereby code locations were "broken" after upgrading.
- (Hub-22091). Fixed an issue whereby scanning failed in the `scan.cli` after upgrading to version 2019.12.0.
- (Hub-22737, 22851). Fixed an issue whereby a job failed with an error message indicating there were too many parameters.
- (Hub-22781). Fixed an issue whereby the Edit Component dialog box did not load component or license information.








## Version 2019.12.0

### New and Changed Features in Version 2019.12.0

#### Enhancements to the Black Duck UI

The overall navigation of the Black Duck UI has been improved in this release. Enhancements include:

- A new fixed navigation system appears in the left-hand section of the page. Menu options are:

-  **Dashboard**. Displays the last dashboard you viewed.
-  **Find**. A new menu option to view the most recent search results.
-  **Scans**. Displays the Scans page.
-  **Reports**. Displays the Reports page.
-  **Manage**. A new menu option from which you can select: Component Management, Custom Fields Management, License Management, or Policy Management.
-  **Admin**. Displays the Administration page. Note that managing custom field is now available using the  **Manage** option.

- A new Help menu, located on the top navigation bar, provides easy access to the Black Duck online help, integrations help, and API documentation.
- Managing user access tokens has been moved from the My Profile page to a separate page available

from the user menu located on the top navigation bar.

- The Tools page has been updated.
- A new filter option, Match Ignore, has been added to the BOM page.

## Redesign of project version Security tab

The project version **Security** tab has been redesigned with a new layout, new filters, and new columns added to the vulnerabilities table.

You can now quickly see the CWE ID and whether an exploit, workaround, or solution is available for a vulnerability without having to drill down to view this information.

## Deep level license data

Black Duck now provides the ability to manage your deep licenses (also known as sub-licenses or embedded licenses) which may exist in your open source components. Managing this deep license data reduces the risk of license infringement and makes it easier to understand and report on deep licenses and their risks in the open source being used.

Deep license data is not enabled by default; you must enable including deep license data to your BOM components. Once enabled, any deep licenses, as determined by the Black Duck KnowledgeBase, are automatically active.

**Note:** Depending upon the number of components and number of deep licenses, enabling the viewing of deep license data can impact the BOM calculation scan time. Adding deep license data to your BOM can affect your license risk and can trigger policy violations.

## Copyright data included in Notices report – BETA

An option to include the deduplicated copyright statements obtained from the Black Duck KnowledgeBase to the Notices report is now available. This make is easy for you to include the full list of copyright holders for the open source components you use in your notice reports.

This feature is *optional* and is currently a Beta feature and results may include poorly formatted or missing copyrights. A known issue is the truncation of copyright statements which contain special characters. Synopsys plans to add additional capabilities around copyright discovery and reporting in future releases.

Please send any feedback on errors or improvements to your Synopsys representative or to our customer support organization.

## Custom license family enhancements

- To eliminate confusion, the Restricted Third Party Proprietary license family has been renamed to Restrictive Third Party Proprietary.
- KnowledgeBase licenses are now associated with the Restrictive Third Party Proprietary license family. This may affect your license risk and can trigger policy violations.

## Policy management enhancement

Policy management now provides the ability to create policy rules based on these vulnerability conditions:

- CWE IDs
- Exploit Available
- Overall Score
- Solution Available
- Workaround Available

## Enhancements to the report database

New views have been added to the `reporting` schema of `bds_hub` for project, project version, and BOM component custom fields.

## BOM status

The header in the project version BOM page (also known as the project version **Components** tab) now includes the status of components, indicating whether processing is occurring to update the BOM.

## Custom Scan Signatures

The Custom Scan Signatures feature is now available to all customers.

## Custom Fields enhancements

Black Duck now provides the ability to delete custom fields.

## API enhancements

- Custom fields are prevented from being deleted if they are in use in a policy.

The DELETE endpoint for custom fields returns an error if the custom field is being used in a policy.

## Support for non-root user ID/Group IDs

This release adds support for running Black Duck images using non-root user IDs/Group IDs in `.yaml` configuration files for Kubernetes.

## Supported browser versions

- Safari Version 13.0.3 (14608.3.10.10.1)
- Chrome Version 78.0.3904.108 (Official Build) (64-bit)
- Firefox Version 71.0 (64-bit)
- Internet Explorer 11.476.18362.0
- Microsoft Edge 44.18362.449.0
- Microsoft EdgeHTML 18.18363

## Container changes

- blackducksoftware/blackduck-postgres:1.0.10
- blackducksoftware/blackduck-cfssl:1.0.1
- blackducksoftware/blackduck-logstash:1.0.5
- blackducksoftware/blackduck-zookeeper:1.0.3

- blackducksoftware/blackduck-nginx:1.0.14
- blackducksoftware/blackduck-upload-cache:1.0.11
- sigsynopsys/appcheck-worker:2019.12
- blackducksoftware/rabbitmq:1.0.2

## Renamed job

The KbReleaseUpdateJob has been renamed to the KbVersionUpdateJob to better describe the purpose of the job.

## New audit event

An audit event will now appear when the Black Duck KnowledgeBase deprecates a component or component version.

## Japanese language

The 2019.10.0 version of the UI, online help, and release notes has been localized to Japanese.

## Fixed Issues in 2019.12.0

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

- (Hub-13468). Fixed an issue whereby the Used Count value shown in the Black Duck UI was incorrect.
- (Hub-16211, 16713, 17562). Fixed an issue whereby the BOM appeared up-to-date, however, processing was still occurring.
- (Hub-16950). Removed external images from the webapp container.
- HUB-17685). Fixed an issue whereby the policy violation status was not updated after the policy violation for reviewed components no longer occurred.
- (Hub-17841). Fixed an issue whereby the `scans.csv` project version report displayed the code location ID in the Scan ID field.
- (Hub-18257). Removed gravatar from Black Duck.
- (Hub-18978). Fixed an issue whereby a component could not be deleted from a project version.
- (Hub-20997, 21968). Fixed an issue whereby not all matched components were listed on the Scans > Components page.
- (Hub-21205). Fixed an issue whereby an input parsing request error was received when attempting to view match results on the **Source** tab.
- (Hub-21319). Fixed an issue whereby the scan history showed matches, however, the Scans > Components page showed no results.
- (Hub-21353). Fixed an issue whereby the license for a component version could not be modified.
- (Hub-21369). Fixed an issue whereby filtering a component search by primary language did not work correctly.
- (Hub-21538). Fixed an issue whereby the Snippet View window on the **Source** tab did not appear when using Edge and IE 11 browsers.
- (Hub-21606). Fixed an issue whereby the "New projects created this week" filter returned all projects.
- (Hub-21614). Fixed an issue whereby side-by-side matched code was not highlighted in the Snippet View

window on the **Source** tab.

- (Hub-21664). Fixed an issue whereby the corresponding matched lines in the source code pane did not change when the alternative match was selected on the **Source** tab.
- (Hub-21735). Fixed an issue whereby a "createOrUpdateMany.arg1.compositePath required" error appeared when trying to update a blank dependency's component on the **Source** tab.
- (Hub-21751). Revised the text on the SAML logout page.
- (Hub-21785). Fixed an issue whereby the filter on the **Source** tab did not display all existing files and/or directories.
- (Hub-21793). Fixed an issue whereby the Black Duck 2019.8.0 AMI was missing images.
- (Hub-21796). Fixed an issue whereby changes to a file or directory match made to a child directory propagated to the parent directory on the **Source** tab.
- (Hub-21817). Fixed an issue whereby icons were missing on the Tools page.
- (Hub-21960). Fixed an issue whereby the VersionBomComputationJob was failing with the following error message: duplicate key value violates unique constraint "uidx\_vuln\_remediation\_release\_vuln\_id".
- (Hub-22042). Fixed an issue whereby links to deprecated integrations were still shown on the Tools page.
- (Hub-22090). Fixed an issue whereby updating the status for a component version on the component version **Settings** tab was unsuccessful.
- (Hub-22094, 22477). Fixed an issue whereby LDAP authentication was unsuccessful after upgrading to version 2019.10.0.
- (Hub-22165). Fixed an issue whereby the API endpoint GET /api/vulnerabilities/{vulnerabilityId}/affected-projects was missing access controls.
- (Hub-22167). Fixed an issue whereby selecting an empty license from the License Management table displayed a 404 error.
- (Hub-22175). Fixed an issue whereby the file path no longer appeared when hovering over a matched file on the **Source** tab.

## Version 2019.10.3

### New and Changed Features in Version 2019.10.3

Black Duck version 2019.10.3 is a maintenance release and contains no new or changed features.

### Fixed Issues in 2019.10.3

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

- (Hub-22803). Fixed a potential issue in the Black Duck SSO integration by providing greater security when communicating between Black Duck and the SSO provider.

## Version 2019.10.2

### New and Changed Features in Version 2019.10.2

Black Duck version 2019.10.2 is a maintenance release and contains no new or changed features.



## Fixed Issues in 2019.10.2

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

- (Hub-22091). Fixed an issue whereby scanning failed in the `scan.cli` after upgrading to version 2019.10.0.

## Version 2019.10.1

### New and Changed Features in Version 2019.10.1

Black Duck version 2019.10.1 is a maintenance release and contains no new or changed features.

### Fixed Issues in 2019.10.1

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

- (Hub-21912). Fixed an issue whereby the Documentation and Webapp containers would not start when using Docker Swarm with a read-only deployment.
- (Hub-21965). Fixed an issue whereby Black Duck did not work with proxy certificate settings.
- (Hub-21970). Fixed an issue whereby the **Legal** tab was only visible to License Managers.
- (Hub-22002). Fixed an issue whereby the `blackduck_reporter` user did not have permission to access data using the `reporting` schema in `bds_hub`.
- (Hub-22056). Fixed an issue whereby a project version report was failing with a validation exception.

## Version 2019.10.0

### New and Changed Features in Version 2019.10.0

#### Redesigned report database

To make it easier for you to quickly create, use, back up, and restore your reporting database, as of the 2019.10.0 release, the tables from the separate reporting database (`bd_hub_report`) have been moved from the `public` schema in the reporting database to the `reporting` schema in the Black Duck database, `bds_hub`.

Tables in the reporting schema in the Black Duck database are:

- Component
- Component license
- Component match type
- Component matches
- Component policies
- Component usage
- Component vulnerabilities
- Project
- Project mapping

- Project version
- Project version code locations

There will be a delay for any changes made in Black Duck to appear in the report database. The length of time for this delay depends on the value you specified using the new `BLACKDUCK_REPORTING_DELAY_MINUTES` environment variable, which by default, equals 8 hours. Refer to the installation guide for more information.

While Black Duck provides the `blackduck_reporter` user which only has read-only access to the reporting schemas of the `bds_hub` database, you can configure additional users which have the same permissions as the `blackduck_reporter`. Refer to the *Report Database* guide for more information.

**Note:** Synopsys recommends that VulnDB users or former VulnDB users back up the `bds_hub_report` database. For all other users, data that was in the `bds_hub_report` database is now in the `bds_hub` database. For more information, refer to the installation guide.

## Enhancements to user management for LDAP/SSO

You can now create a Black Duck user account for a local user (an internal user account) or for an external user (such as a user managed by an external source, such as LDAP).

Note that with external user accounts:

- You can create users and assign roles without the user logging in to Black Duck.
- User information, such as the first or last name, can be changed in Black Duck, however passwords are not managed by Black Duck.
- The first name, last name, and email address of the external user will be overridden with the information present on the external server, (such as an LDAP server), at the time of login.

**Note:** Any user accounts created before the 2019.10.0 release are internal users.

## Enhancement to group management

Black Duck now provides the ability for you to create one or more default groups. Subsequent new users are automatically added to this group and are granted all roles and access to all projects configured for this group.

## Black Duck UI enhancement for critical and high security risks

The critical and high security risk values are now shown in separate categories in the Black Duck UI.

**Note:** If you selected to view CVSS 2.0, the graphs display the Critical risk category with a value of 0.

## Ability to specify number of scanning levels for Custom Scan Signature, now a Limited Customer Availability feature.

Custom scan signatures by default, are limited to the top five levels in the directory structure. In this release, system administrators can now modify this global default value and Super Users or Project Managers can modify the setting for a specific project.

Note that this feature is now a “Limited Customer Availability” offering which is available to specific Black Duck customers. Though the custom scan signature feature is fully functional with full product support, Synopsys is limiting production use to a subset of customers who participated in the Beta program. As such,

the feature is expected (but not guaranteed) to perform at production level workloads and customers may need to adjust their use of the feature to address their particular environments and workloads. If you did not participate in the Beta program and would like to test this capability in a non-production environment, please reach out to your product representative to have the feature enabled.

### Additional status values for license and component management

The following statuses have been added to License Management:

- In Review
- Reviewed
- Deprecated

The following statuses have been added to Component Management:

- In Review
- Reviewed

With these additions, the possible status values for license and component management are:

- Unreviewed
- In Review
- Reviewed
- Approved
- Limited Approval
- Rejected
- Deprecated

Note that the unreviewed status is not available when adding a KnowledgeBase component.

### Additional license families

Two new license families – Restricted Third Party Proprietary and Internal Proprietary – have been added to Black Duck. Note that in this release of Black Duck, there are no KnowledgeBase licenses associated to these new license families.

**Note:** If your License Manager created a custom license family labeled "Restricted Third Party Proprietary" or "Internal Proprietary" before the 2019.10.0 release, the number "(1)" is appended to those custom license family names.

Refer to the documentation to view the risk associated with these license families.

### Enhancements to the component and component additional fields project version reports

The component project version report, `components_date_#.csv`, and the component additional fields report, `bom_component_custom_fields_date_#.csv`, have been enhanced to include more information. These columns have been added::

- File Match Count
- License Risk
- Component Status
- Component Notes
- Fulfillment Required
- Version Notes
- Critical Vulnerability Count
- High Vulnerability Count
- Medium Vulnerability Count
- Low Vulnerability Count
- Release Date
- Newer Versions
- Commit Activity
- Commits in Past 12 Months
- Contributors in Past 12 Months

These fields were added to the end of the component project version report. For the component additional fields report, these fields appear before the BOM component, component, and component version custom field information.

## New API documentation and enhancements

New API documentation is now available. This documentation makes APIs easier to use by grouping APIs, providing improved examples, and adding API linking. This documentation is located at:

<https://<Black Duck Server URL>/api-doc/public.html>

The previous version of the API documentation is still available. To view it, go to <https://<Black Duck Server>/api.html>

Other API enhancements consist of:

- Added PUT support for ignored flag, inAttributionReport and attributionStatement to BOM component API.
- Added public API to update license text in the BOM license modal ([api/projects/id/versions/id/components/id/versions/id/licenses/id/text](#)).
- Added new public APIs for interacting with Jobs at [/api/jobs](#) and [/api/jobs/{jobId}](#).
- Updated the [/api/user](#) API to enable adding/editing the externalUserName and type fields.

## Ability to configure the user session timeout value

Black Duck now provides the ability for you to configure a user session timeout value that automatically log out users from the Black Duck server.

To change the current timeout value, make the following PUT request with the PUT request body.

```
PUT https://<hub-server>/api/system-oauth-client
{
  "accessTokenValiditySeconds": <time in seconds>
```

```
}
```

Refer to the installation guide for more information.

## Removal of the bdio database

To improve scan upload performance from the client to Black Duck, the `bdio` database is no longer used and will be removed in a future release. As a result, the `ScanGraphJob` has also been removed.

You can back up the `bdio` database and/or truncate all table data if you want to reclaim space.

## Supported browser versions

- Safari Version 13.0.1 (14608.2.11.1.11)
- Chrome Version 77.0.3865.90 (Official Build) (64-bit)
- Firefox Version 69.0.2 (64-bit)
- Internet Explorer 11.1006.17134.0
- Microsoft Edge 42.17134.1.0
- Microsoft EdgeHTML 17.17134

## Container changes

Updated containers:

- `uploadcache`: image: `blackducksoftware/appcheck-worker:2019.09`
- `webserver`: image: `blackducksoftware/blackduck-nginx:1.0.9`

Changed namespace:

- `binaryscanner`: image: `sigsynopsys/appcheck-worker:2019.09`

## Japanese Language

The 2019.8.0 version of the UI, online help, and release notes has been localized to Japanese.

## Fixed Issues in 2019.10.0

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

- (Hub-19787). Fixed an issue whereby four simultaneous `VersionBomComputationJobs` started for a single project version and all of these jobs failed.
- (Hub-20000). Fixed an issue whereby the full file path information was not shown in the snippet view on the **Source** tab.
- (Hub-20040). Fixed an issue whereby the logout page did not appear when logging out of an SSO account.
- (Hub-20366). Fixed an issue so that users would not get a timeout when attempting to upload a `.json` file when using the Black Duck UI.
- (Hub-20421). Fixed an issue so that the Black Duck UI does not display upgrade guidance information when a upgrade version is not available.
- (Hub-20770). Fixed an issue whereby the snippet view on the **Source** tab did not show the file name of the matching component.

- (Hub-20879). Fixed an issue whereby the **Source** tab did not display the full path if a file or folder was located within an archive file.
- (Hub-19534, HUB-20800, HUB-20926). Fixed an issue whereby the KbReleaseUpdateJob failed repeatedly which also caused duplicate components to appear on the Component Dashboard.
- (Hub-21075). Fixed an issue whereby scans were mapped to the incorrect project versions and deleted project versions were restored.
- (Hub-21217). Fixed an issue whereby cloning a project failed with a "server did not respond in time" error message.
- (Hub-21264). Fixed an issue with an invalid port when integrating SSO with Black Duck.
- (Hub-21276). Fixed an issue whereby an AGPL license violation did not clear after the policy violation was overridden.
- (Hub-21298, HUB-21549). Fixed an issue whereby editing ignored components in a BOM resulted in a 404 error.
- (Hub-21421). Fixed an issue whereby printing the BOM failed for large projects.
- (Hub-21464). Fixed an issue whereby the User Management page displayed a maximum of 10 groups per user.
- (Hub-21488). Fixed an issue whereby external users were being removed from groups at login with Azure AFDS SAML.
- (Hub-21538). Fixed an issue whereby snippet alternative matches were broken when viewed in Edge 11 and Internet Explorer 11.
- (Hub-21541). Fixed an issue whereby the authentication container was returning an incorrect port when running Kubernetes on AWS.

## Version 2019.8.1

### New and Changed Features in Version 2019.8.1

#### API Enhancements

- The API endpoints for ignoring, confirming, or editing snippet matches are now available.
- Provided the ability to retrieve file match checksum data for a Protex BOM import so that it can be compared against checksum file match data from a Black Duck scan.

### Fixed Issues in 2019.8.1

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

- (HUB-20587). Fixed an issue whereby the **Source** tab allowed users to add a project to itself when editing a component.
- (Hub-21057). Fixed performance issues seen after upgrading to version 2019.6.1.
- (Hub-21372). Fixed an issue whereby notification\_subscriber state updates were very slow.

## Version 2019.8.0

### New and Changed Features in Version 2019.8.0

#### Security enhancements

- The Black Duck UI now displays an overall score for a vulnerability and its associated risk level. The Security Dashboard, the *Component Name Version Security* tab, and the Black Duck KB *Component Name Version Security* tab now have an **Overall Score** column which shows the Temporal score (for BDSA), or Base score (for NVD). Hover over the **Overall Score** value to see the individual values.
  - For BDSA, the Temporal, Base, Exploitability, and Impact scores are shown.
  - For NVD, the Base, Exploitability, and Impact scores are shown.

To help you quickly find vulnerabilities that interest you, a new filter "Overall Score greater than or equal to X" has been added to the *Component Name Version Security* tab.

- A new policy condition, Highest Vulnerability Score, also has been added so that you can create policy rules based on the vulnerability score to help you identify your most critical vulnerabilities.

#### Additional component usages

In this release, Black Duck has added the following usages:

- **Merely aggregated.** Your project does not use the component; it may be on the same media, but is not related. The components exist together, but do not depend upon each other in any way. For example, including a sample version of an unrelated product with your distribution.
- **Prerequisite.** This usage is for components that are required but not provided by your distribution.

#### Enhancements to component management

To make it easier to manage component versions in Component Management, there is a new **Component Versions** tab.

#### Enhancements to audit information

Project and project version audit information has been enhanced to now include information regarding the original license (when the original license is modified), rescans, and fulfillment of license terms.

#### Cloning enhancements

Cloning has been enhanced so that the **Component Edits** option now includes cloning of confirmed snippet adjustments and policy violation overrides and associated comments.

#### Improved security for storage of user credentials

User credentials are now stored in the Black Duck database using random-salt SHA256.

#### Component custom fields project version report

The Project Version report has been enhanced to include a new option: **Component Additional Fields**. Selecting this option produces a new report, `bom_component_custom_fields_date_#.csv`, which includes the same information as the `component_date_#.csv` report but also includes BOM component, component, and component version custom field labels and values for this project version.

The option for the project version custom fields `.csv` report has been renamed to **Project Version Additional Fields**.

## Snippet scanning enhancements

In order to improve scanning performance and results, when customers select to perform snippet scans, the snippet scans will first check unmatched file candidates for a file level match, prior to checking the file contents for snippets. If a file level match is detected, potential candidates are generated from that result set. If no file level matches are detected, then normal snippet scanning over the file contents is conducted. For customers highly dependent upon the snippet matching capability and who use lots of unmodified OSS files, this can lead to significant scan performance improvements as well as better match results. In addition, customers will be able to view/filter on files which are exact matches to OSS to aid in confirmation/review process.

## Supported Docker Versions

Black Duck installation supports Docker versions 18.03.x, 18.06.x, 18.09.x, and 19.03.x (CE or EE).

## Upgraded BDBA container

The updated Black Duck Binary Analysis container (now version 2019.06) includes these features and bug fixes:

Features:

- Extract package information from distro package files, supports `.deb`, `.rpm`, `.apk`, `.pkg`.
- Added support for extracting UEFI firmware images.
- Upgraded libmagic to 5.37 - improves file type identification and fixes CVE-2019-8907.
- Added improved support for detecting Go components from Windows and MacOS binaries.
- Added detection of many popular components in uClinux.
- Added support for extracting InstallShield 2016 and older generated Windows installers.

Bug fixes:

- Fixed regression with lzma-compressed ulimages that were corrupted.
- Fixed regression when extracting VMware's version of tar.
- Fixed slow JWT token extractor in some corner cases.
- Changed from using "command" to using "entrypoint" in the `docker-entrypoint.sh` file due to internal start up script changes.

## Updated containers

- uploadcache: image: blackducksoftware/blackduck-upload-cache:1.0.9
- webserver: image: blackducksoftware/blackduck-nginx:1.0.8

## API enhancements

New endpoint to find affected projects by vulnerability:

- GET `/api/vulnerabilities/{vulnerabilityId}/affected-projects`

New job-related endpoints:



- Get job filters: GET /api/jobs-filters
- Get jobs by job ID: GET /api/jobs/{jobId}
- Delete jobs by job ID: DELETE /api/jobs/{jobId}
- Reschedule jobs by job ID: PUT /api/jobs/{jobId}

Deprecated endpoints:

- GET /api/components/{componentId}/vulnerabilities
- GET /api/projects/{leftProjectId}/versions/{leftVersionId}/compare/projects/{rightProjectId}/versions/{rightVersionId}/components

APIs added to the new BETA API documentation, located at [HTTPS://<Black Duck Server URL>/api-doc/public.html](https://<Black Duck Server URL>/api-doc/public.html):

- Report API Endpoints
- Scan Analysis Upload API Endpoint
- Additional Scan Code Location API Endpoints

## Fixed Issues in 2019.8.0

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

- (HUB-18804). Fixed an issue whereby a user with the Global Code Scanner role and the Project Creator role could access any project.
- (HUB-18930). Fixed an issue whereby importing a Protex BOM into Black Duck failed.
- (HUB-19690). Fixed an issue whereby a user with the Project Code Scanner role was unable to view the *Scan Name* page to view assigned project scans or unmap existing scans.
- (HUB-19864). Fixed an issue whereby vulnerability reports consistently failed.
- (HUB-19875). Fixed an issue whereby a snippet scan failed due to "Premature end of chunk coded message body."
- (HUB-20064). Fixed an issue whereby the **Related to** column in the Jobs page was not populated for the SnippetScanAutoBomJob job.
- (HUB-20085). Fixed an issue whereby the snippet scan did not finish.
- (HUB-20101). Fixed an issue whereby the **Source** tab was inconsistent when navigating to match names.
- (HUB-20192). Fixed an issue whereby the **Source** tab incorrectly displayed an unconfirmed status for confirmed and/or matched snippets.
- (HUB-20202, 20236). Fixed an issue whereby the Scan CLI exited a scan with code 70.
- (HUB-20223). Fixed an issue whereby the Protex BOM Tool did not import file match data.
- (HUB-20228). Fixed an issue whereby the side-by-side snippet feature on the **Source** tab did not update the content on the left (source) side.
- (HUB-20244). Fixed an issue whereby the number of components matched as shown on the *Scan Name* page was different than the number of components in the `source.csv` report.
- (HUB-20358). Fixed an issue whereby scanning failed with a "For input string: 0.07" error.
- (HUB-20370). Fixed an issue whereby selecting a match in the **Source** tab did not expand the tree to show the location of the match.

- (HUB-20483). Fixed an issue whereby the match lines did not appear for a snippet match in the **Source** tab.
- (HUB-20587). Fixed an issue whereby the **Source** tab allowed users to add a project to itself when editing a component.
- (HUB-20588). Fixed an issue to allow using main search algorithm for component name modal searches.
- (HUB-20611). Fixed an issue whereby the ScanPurgeJob job logged failures because of a missing or invalid component Black Duck identifier.
- (HUB-20688). Fixed an issue whereby a different component version could not be selected in the Edit Component dialog box.
- (HUB-20733). Fixed an issue whereby "The application has encountered an unknown error" message appeared when attempting to import a Protex BOM into Black Duck.
- (HUB-20744). Fixed an issue whereby attempts to edit 100 snippet matches timed out.
- (HUB-20749). Fixed an issue whereby a user with the Project Code Scanner role could not upload source files.
- (HUB-20755). Fixed an issue whereby unconfirmed or ignored snippets appeared in the project version cryptography report.
- (HUB-20794). Removed the `invisible.vbs` file from the `scan.cli-windows-version.zip` file.
- (HUB-20870). Fixed the API call that provides the project ID from a passed application ID.
- (HUB-20886, 20918). Fixed an issue whereby a user's read/view permissions for viewing or accessing a project were not enforced.
- (HUB-20969). Fixed an issue whereby vulnerability remediation information entered by the user was not updated in the Black Duck UI.

## Version 2019.6.2

### New and Changed Features in Version 2019.6.2

Black Duck version 2019.6.2 is a maintenance release and contains no new or changed features.

### Fixed Issues in 2019.6.2

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

- (HUB-19716). Fixed an issue whereby the following error message was seen: "The column index is out of range: 8, number of columns: 7".
- (HUB-20899). Fixed an issue whereby the KBReleaseUpdateJob continually failed.

## Version 2019.6.1

### New and Changed Features in Version 2019.6.1

#### Removal of the `kubernetes` directory and files

The `kubernetes` directory and all files located in that directory have been removed.

Synopsys recommends installing Black Duck on Kubernetes or OpenShift using Synopsys Operator.

- 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 Black Duck by using Synopsys Operator.

## Fixed Issues in 2019.6.1

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

- (HUB-19013). Fixed an issue whereby the VersionBomComputationJob failed after a project or project version was deleted.
- (HUB-20223). Fixed an issue whereby the Protex BOM tool (`scan.protex.cli.sh`) did not import file match data.
- (HUB-20463). Fixed an issue whereby the file tree shown in the left pane of the **Source** tab did not load on a hosted server.
- (HUB-20484). Fixed an issue whereby some components in a project could not be reviewed or ignored.
- (HUB-20494). Fixed an issue whereby a transitive dependency was reported as a direct dependency.
- (HUB-20540). Fixed an issue whereby the KBReleaseUpdateJob failed with an error message stating "findSnippetAdjustment.arg3 can't be blank."
- (HUB-20612). Fixed an issue whereby users with the Project Manager or Project Code Scanner role could not view and/or unmap scans using the *Project Version***Settings** tab.

## Version 2019.6.0

### New and Changed Features in Version 2019.6.0

#### Common Vulnerability Scoring System (CVSS) 3.0 security risk scores

Black Duck now provides you with the option of viewing CVSS 3.0 scores. Users with the system administrator role can redefine the order of security ranking that Black Duck uses to define the risk score and risk categories of security vulnerabilities. By default, Black Duck displays CVSS 2.0 scores.

Note that changing the order of the security risk configuration will result in revised security risk calculations for all project version BOMs and may result in new policy violations. These calculations may take a *considerable amount of time* to complete

When changing the security ranking, these two new jobs are started:

- VulnerabilityReprioritizationJob, which recomputes all BOMs with the new vulnerability priority setting.
- VulnerabilitySummaryFetchJob, which locates missing CVSS 3.0 data.

#### License term fulfillment

License Managers can now define which license terms require fulfillment. The fulfillment status of a license term is defined for a term at the license level, as not all instances of a license term may require fulfillment. This allows you to easily define the fulfillment requirements for a license term,

- BOM Manager's use the new *Project Version's* **Legal** tab, enabled by the System Administrator, to view all license terms that require fulfillment and indicate which license terms are fulfilled.
- Policy managers can create a policy rule that will trigger a violation when there are unfulfilled license

terms.

- License term fulfillment status can be cloned.
- A new project version report, `license_term_fulfillment.csv` lists the license terms and fulfillment status for a project version.
- A new job, `LicenseTermFulfillmentJob`, applies license term fulfillment requirements to all BOMs.

## Enhancements to custom fields

Black Duck now supports the creation and management of custom fields for BOM components and component versions.

BOM component custom field information appears when viewing the details of a component in the BOM.

Component version custom field information is shown in the **Additional Fields** section of the *Component Name Version Name* **Settings** tab.

## Enhancements to reports

The following enhancements have been made to reports:

- Project version reports:
  - The following characters `< > \ / | : * ? + "` in the project or version name are replaced with underscores (`_`).
  - The archive filename is `<ProjectName-ProjectVersion>_YYYY-MM-DD-HHMMSS.zip` (time stamp in UTC).
  - The directory and filename are `<ProjectName-ProjectVersion>_YYYY-MM-DD-HHMMSS/<fileName>_YYYY-MM-DD-HHMMSS.csv` (with the same time stamp as the archive filename)
- Global vulnerability reports:

- The Vulnerability Remediation report, Vulnerability Status report, and the Vulnerability Update report now have a `.csv` option for the format of the report.

This option is useful if your data set becomes too large to render and view in the browser.

- The archive file name is now `vulnerability-<ReportType>-report_YYYY-MM-DD-HHMMSS.zip` (time stamp in UTC).
- Directory and filename are: `vulnerability-<ReportType>-report_YYYY-MM-DD-HHMMSS.csv` (with the same time stamps as the archive filename)
- These new columns have been added to all global vulnerability reports:
  - Remediation updated at
  - Security Risk

These new columns are now the last two columns in the reports.

## New API documentation - BETA

New API documentation is now available. This documentation makes APIs easier to use by grouping APIs, providing improved examples, and adding API linking.

This documentation is located at:

<HTTPS://<Black Duck Server URL>/api-doc/public.html>

Note that this documentation is a Beta feature and all APIs may not yet be represented.

The existing API documentation, located at <HTTPS://<Black Duck Server URL>/api.html> is still available.

## Improvements to the Source view

The Source view has been enhanced and now includes the ability to copy a path to the clipboard and the ability to bulk edit components tied to snippet.

## Support for read-only file system for Swarm Services

A new file, `docker-compose.readonly.yml`, is included in the distribution. Use this file to install Black Duck with a read-only file system for Swarm services.

This feature is supported for Docker Swarm only.

## Docker Swarm orchestration version changes

- Docker compose version: 3.6
- Docker engine version: 18.02.0+

## Enhancement to archived project versions

For project versions in the Archived phase, updates from the Black Duck KnowledgeBase regarding security vulnerabilities are applied to archived project versions.

However, all other updates from the Black Duck KB, such as updates to license information, *are not* applied to archived project versions.

## New jobs

These jobs have been added to Black Duck:

- BomAggregatePurgeOrphansJob, which deletes any BOM data not associated with a project version.
- ComponentDashboardRefreshJob, which refreshes the information shown on the component dashboard.
- PolicyRuleModificationBomComputationJob, which computes version BOMs affected by changes to policy rules.

## Enforcement of code size limit

If you exceed your code size limit, an error message now appears when trying to scan (for example, shown in log files in Jenkins or on the screen in Synopsys Detect (Desktop)) or when uploading scans to Black Duck. You will not be able to scan or upload scans if you exceed your code size limit.

## Updated Black Duck - Binary Analysis container

The updated Black Duck Binary Analysis container (now version 2019.03) includes:

- Added detection for new components
- Added support for extracting Linux packages created with InstallAnywhere

- Added support for extracting zstandard compression
- Added support for FreeBSD ufs, uzip and ulzma image extraction

## Enhancements to Synopsys Detect (Desktop)

Synopsys Detect (Desktop), formerly known as Black Duck Detect Desktop, now includes these features:

- Ability to use an existing API key.
- An option to migrate your data from a previous version of Synopsys Detect (Desktop).
- Ability to check for updates of Synopsys Detect (Desktop) to see if newer versions are available. This option is only available for Windows and MacOS systems.

As the application installs into a directory related to its name, Synopsys Detect (Desktop) will not uninstall previous versions of Black Duck Detect Desktop. It also will not uninstall versions of Synopsys Detect (Desktop) that were installed in a non-default directory. You must manually uninstall all previous versions of Black Duck Detect Desktop, versions of Synopsys Detect (Desktop) installed in the non-default directory, and fix or delete any shortcuts.

## Removal of Solr container

For improved search performance, the Solr container has been removed.

Depending upon your individual corporate policy, you can keep, back up, or remove the existing Docker Solr volume,

## Component Dashboard refresh rate

By default, the Component Dashboard refreshes every 5 minutes. If you notice a lag between your changes and the information appearing on the Component Dashboard, you can now add a system property, `com.blackducksoftware.bom.aggregate.component_dashboard_refresh_interval_ms`, to the `blackduck-config.env` file that defines the Component Dashboard refresh rate.

This feature is for Docker Compose and Docker Swarm.

## Japanese Language

The 2019.4.1 version of the UI, online help, and release notes has been localized to Japanese.

## Fixed Issues in 2019.6.0

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

- (HUB-8192). Notifications older than 180 days are now automatically deleted.
- (HUB-13279). The complex license view model is now included in the project version APIs in the new Beta API documentation.
- (HUB-15298). Fixed an issue whereby performance issues occurred when accessing the **Component** tab.
- (HUB-15698). Fixed an issue whereby policy violations were not shown for snippets on the **Source** tab.
- (HUB-16619). Fixed an issue whereby unconfirmed snippets triggered vulnerability notifications and were included in security risk values.
- (HUB-16628). Fixed an issue whereby navigating to a direct Black Duck link when SSO was enabled brought you to the Project dashboard after logging in, instead of the original link destination.

- (HUB-17378). Fixed an issue whereby snippet scans were double counted against the total code size limit.
- (HUB-18221). Fixed an issue whereby a user with the Global Code Scanner and Project Creator roles could view the Scans page or a *Scan Name* page and access a project version which they did not have permission to view.
- (HUB-18523). Fixed an issue whereby users with the Project Code Scanners role could not download scans for the projects to which they are assigned.
- (HUB-18561). Fixed an issue whereby selecting to view a CVE or BDSA record displayed an empty page when using Internet Explorer.
- (HUB-18623). Fixed an issue whereby the Operational Risk filter changed to the License Risk filter when a page was reloaded.
- (HUB-18631). Fixed an issue whereby a 404 error message appeared when adding or editing a comment.
- (HUB-18676). Fixed an issue whereby a 400 error message appeared when analyzing a binary file.
- (HUB-18694). Fixed an issue so that the `system_check.sh` script now uses the container's proxy settings when probing external URLs.
- (HUB-18760). Fixed an issue whereby the cryptography filter worked incorrectly in the BOM page and the match type filter in policy management was missing the Unmatched option.
- (HUB-18911). Renamed the Attribution Report filter on the BOM page to Notices File Report.
- (HUB-18983). 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-19130). Fixed an issue whereby the number of components matched as shown on the *Scan Name* page was different than the number of components in the `source.csv` report.
- (HUB-19141). Fixed an issue so that only confirmed snipped components appear on the Component Dashboard.
- (HUB-19238). Fixed a issue where it appeared that edits to the BOM did not complete in a timely manner.
- (HUB-19274). Fixed an issue where inconsistency was seen in the security risk categorization in the Black Duck UI versus the `security.csv` report.
- (HUB-19490). Fixed an issue whereby filters on the BOM page displayed incorrect values when a page was refreshed.
- (HUB-19504). Fixed an issue so that the scan client CLI is now packaged with Java JRE version 11.0.2.
- (HUB-19522). Fixed an issue whereby users with the Project Code Scanner role got an exit code 77 although the scan completed and uploaded to Black Duck.
- (HUB-19548). Fixed an issue whereby manual changes to a license family did not propagate to projects unless the project was rescanned.
- (HUB-19604). Fixed an issue whereby inaccurate search results appeared when attempting to add a subproject.
- (HUB-19607). Fixed an issue whereby the BDSA record for some security vulnerabilities did not display the related CVE record in the **Security** tab.
- (HUB-19637). Fixed an issue whereby unconfirmed or ignored snippet matches were included in the vulnerable BOM components API response.
- (HUB-19696). Fixed an issue so that `/api/components/{componentId}` sublinks to references, custom-

fields, origins, risk-profile, and vulnerabilities now redirect correctly.

- (HUB-19728). Fixed an issue whereby "The entity does not exist" error message appeared when attempting to clone a project version.
- (HUB-19771). Fixed an issue whereby the edit section of the **Source** tab did not consistently open when a directory was selected.
- (HUB-19791). Fixed various UI issues in the **Source** tab when managing snippets.
- (HUB-19897). Fixed an issue when a user could not be assigned to more than one project if that user already had access to one of the projects.
- (HUB-19907). Fixed an issue whereby the findVulnerableComponents API incorrectly showed vulnerabilities and notifications for ignored components and unconfirmed snippets in a project.
- (HUB-19909). Fixed an issue whereby an "Unable to manage operation because it is not supported by policy for job type" message appeared when performing medium to large scans.
- (HUB-20033). Fixed an issue whereby the Jobs page timed out and displayed the "Black Duck Server does not respond" message.
- (HUB-20054). Fixed an issue whereby selecting a different component for a snippet match added the component instead of replacing the existing component.
- (HUB-20086). Fixed an issue whereby a 412 Precondition failed error appeared when using the file license API.
- (HUB-20146). Fixed an issue whereby an "Unable to create component adjustment because it already exists" error message appeared when attempting to clone a project.
- (HUB-20172). Fixed an issue whereby selecting the path did not display the exact path or file name for declared components in the **Source** tab.

## 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-18836). Fixed a configuration issue when running Black Duck on Azure Kubernetes Service (AKS) with an external Azure PostgreSQL instance.
- (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.

## Synopsys Detect (Desktop)

Synopsys 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 Synopsys Detect (Desktop) and greater flexibility with Synopsys Detect.

The link to Synopsys 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.

#### Synopsys Detect (Desktop)

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

Synopsys 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.

## Chapter 3: Known Issues and Limitations

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

- When scanning with the Signature Scanner CLI, Synopsys Detect (Desktop), or Synopsys Detect, you may see error messages that starts with the following:

```
ERROR StatusLogger Unrecognized
```

You can ignore these messages. These errors do not impact the scans and will not cause the scan to fail.

- The **Overview** tab for the *Component Name* page shows CVSS 2.0 data, even if you selected to view CVSS 3.0 (NVD or BDSA) data.
- 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.