

# FlexNet Code Insight 6.14.1 Release Notes

June 2020

<b>Introduction .....</b>	<b>3</b>
<b>Payload Summary for FlexNet Code Insight 6.14.1 .....</b>	<b>3</b>
<b>Supported Platforms and Technology .....</b>	<b>3</b>
Operating Systems .....	4
Databases.....	5
Hardware .....	5
Supported Hardware Configurations.....	6
CPU Specifications .....	7
Software .....	7
Software Packages.....	8
Supported Browsers .....	10
Ports .....	10
Source Code Management.....	10
<b>Resolved Issues.....</b>	<b>11</b>
<b>New Features and Enhancements .....</b>	<b>12</b>
CodeAware Enhancements.....	13
Option to Ignore Empty Inventory in Report .....	13
Custom Statuses Now Processed During Project Copy, Export, and Import.....	13
Enhancements and Updates to FlexNet Code Insight APIs .....	13
User Documentation Enhancements .....	14
<b>Deprecations and Other Notifications .....</b>	<b>15</b>
Analyzer Available Only by Manual Enablement .....	15
End of Support for Java 7 .....	15
Point Detector Functionality No Longer Supported .....	15
End of Support for Secunia Community Site .....	16
<b>Technical Notes &amp; Known Issues .....</b>	<b>16</b>
Installation .....	16
Electronic Update.....	17
Migration and Backup.....	18
APIs.....	18
Scanning and Analysis .....	19
Reporting .....	22
Code Search.....	22
Project Copy .....	23
SPDX Generator Report.....	23
ScriptRunner and Scripting .....	23
Workflow.....	24

Web UI.....	24
<b>Configuring Dynamic Selection of a Request Reviewer .....</b>	<b>25</b>
<b>Migrating Your Current FlexNet Code Insight Version to 6.14.1.....</b>	<b>27</b>
Requirements .....	27
Supported Code Insight Versions for Migration to 6.14.1 .....	27
Additional Requirements.....	27
<b>Preparing the Environment.....</b>	<b>28</b>
<b>Upgrading FlexNet Code Insight .....</b>	<b>28</b>
<b>Verifying the Upgrade.....</b>	<b>30</b>
<b>Reverting to a Previous Version .....</b>	<b>31</b>
<b>Product Support Resources.....</b>	<b>31</b>
<b>Copyright Notice .....</b>	<b>33</b>
Intellectual Property .....	33
Restricted Rights Legend .....	33

# Introduction

These Release Notes pertain to the 6.14.1 release of FlexNet Code Insight, formerly known as Palamida Enterprise Edition (EE). The product features, enhancements, changes, and upgrade details described in this document apply only to the 6.14.1 version of the product. For information specific to earlier versions, refer to previous Release Notes documents.

This document contains the following major topics:

- [Payload Summary for FlexNet Code Insight 6.14.1](#)
- [Supported Platforms and Technology](#)
- [Resolved Issues](#)
- [New Features and Enhancements](#)
- [Deprecations and Other Notifications](#)
- [Technical Notes & Known Issues](#)
- [Configuring Dynamic Selection of a Request Reviewer](#)
- [Migrating Your Current FlexNet Code Insight Version to 6.14.1](#)
- [Product Support Resources](#)
- [Copyright Notice](#)

## Payload Summary for FlexNet Code Insight 6.14.1

The following is a summary of the functionality that has been added or updated in FlexNet Code Insight in version 6.14.1:

- New functionality and enhancements, as described in [New Features and Enhancements](#).
- Resolved issues, as described in [Resolved Issues](#).

## Supported Platforms and Technology

The following sections list the platforms and technology currently supported by FlexNet Code Insight systems:

- [Operating Systems](#)
- [Databases](#)
- [Hardware](#)
- [Software](#)
- [Ports](#)
- [Source Code Management](#)

# Operating Systems

FlexNet Code Insight is tested and validated on the following operating systems:

Supported	Recommended
<ul style="list-style-type: none"><li>● Ubuntu 18.04</li><li>● Ubuntu 16.04</li><li>● Ubuntu 14.0.4</li><li>● RHEL 7.0, 7.2 (64-bit)</li><li>● RHEL 6.5 (64-bit)</li><li>● CentOS 7 (64-bit)</li><li>● CentOS 6.10 (64-bit)</li><li>● CentOS 6.5 (64-bit)</li><li>● Win 10 Enterprise or Professional (64-bit)</li><li>● Win 8.1 Enterprise or Professional (64-bit)</li><li>● Win 7 Enterprise or Professional (64-bit)</li><li>● Windows Server 2016 Datacenter</li><li>● Windows Server 2016 Standard</li><li>● Windows Server 2012 Enterprise or Professional (64-bit)</li></ul>	<ul style="list-style-type: none"><li>● Ubuntu 18.04</li><li>● RHEL 7.2 (64-bit)</li><li>● CentOS 7 (64-bit)</li><li>● Win 10 Enterprise or Professional (64-bit)</li><li>● Windows Server 2016 Datacenter</li></ul>

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## Possible Compatible Operating Systems

The following operating systems might be compatible but are not tested with each release:

- Mac OS (all versions)
- Windows Server 2008 R2 Enterprise Edition (64-bit)
- Windows XP Professional (64-bit)
- Windows 7 Ultimate (64-bit)
- CentOS 5 (64-bit)
- Others (contact technical support)

## Additional Notes About Supported Operating Systems

CentOS 6x versions reach EOL (End of Life) status on November 30, 2020.

# Databases

FlexNet Code Insight is tested and validated on the following databases.

Supported	Recommended
<ul style="list-style-type: none"><li>MySQL 5.6, 5.7, 8</li><li>Oracle 11g, 12c, 18c, 19c</li><li>MS SQL Server<ul style="list-style-type: none"><li>2012 r2 Enterprise</li><li>2014 Enterprise</li><li>2016 Enterprise</li></ul></li></ul>	<ul style="list-style-type: none"><li>MySQL 5.7, 8</li><li>Oracle 12c, 19c</li><li>MS SQL Server<ul style="list-style-type: none"><li>2012 r2 Enterprise</li><li>2014 Enterprise</li><li>2016 Enterprise</li></ul></li></ul>

## Additional Notes About Database Support

Note the following about database support:

- Oracle 11g has an end-of-life status. There is no guarantee that this Oracle version continues to work properly with FlexNet Code Insight.
- MS SQL Server 2012 is not recommended for use in large-scale and high-volume scanning environments.
- The MySQL 5.0-5.5 database version has been used to run [ProductName] in the past but has not been fully verified as part of the current release.



**Note** • Ensure that you use appropriate supported database driver with FlexNet Code Insight. Other versions are not guaranteed to be compatible. See [Software](#) for details.

# Hardware

The following describes hardware requirement:

- [Supported Hardware Configurations](#)
- [CPU Specifications](#)

## Supported Hardware Configurations

Use the following table to determine hardware requirements for FlexNet Code Insight components. (Also see [CPU Specifications](#).)

Component	Supported	Recommended
<b>Scan Server</b>	<ul style="list-style-type: none"> <li>32 GB RAM</li> <li>At least 1.25 TB hard disk space for the following (assuming that the Scan Server and Compliance Library are hosted on the same instance):               <ul style="list-style-type: none"> <li>Codebases (materials to be scanned)</li> <li>Workspaces (scanned results)</li> <li>Compliance Library (approximately 1 TB)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>32 GB or 64 GB RAM depending on expected load</li> <li>1.5 TB hard disk space for the following (assuming that the Scan Server and Compliance Library are hosted on the same instance):               <ul style="list-style-type: none"> <li>Codebases (materials to be scanned)</li> <li>Workspaces (scanned results)*</li> <li>Compliance Library (approximately 1 TB)</li> </ul> </li> </ul> <p>* Performance can benefit significantly if the workspace directory is located on a Solid State Drive (SSD) drive</p>
<b>Core Server</b>	<ul style="list-style-type: none"> <li>16 GB RAM</li> <li>At least 650 MB of space for product and attachments</li> </ul> <p>See the <b>Database Server</b> entry below if hosting both Core Server and database on the same machine</p>	<ul style="list-style-type: none"> <li>32 GB RAM (required if Core Server and database reside on same machine)</li> <li>30 GB of space for product and attachments</li> </ul> <p>See the <b>Database Server</b> entry below if hosting both Core Server and database on the same machine</p>
<b>Client</b>	<ul style="list-style-type: none"> <li>8 GB RAM</li> </ul>	<ul style="list-style-type: none"> <li>16 GB RAM</li> </ul>
<b>Database Server</b>	<p><b>Database Sizing:</b></p> <ul style="list-style-type: none"> <li>The recommendation is that you have a DBA configure your database as you would for any other Enterprise Web Application.</li> <li>For disk space, the recommendation is to start with a base of 30 GB (for SQL Server, 50 GB) to accommodate the FlexNet Code Insight Data Libraries and other data related to users, teams, projects, and such.</li> </ul> <p>If you install the database on the same machine as the Core Server, calculate the hard-drive requirement by adding the database base size to the recommended Core Server disk space. (Also see <a href="#">Additional Notes about Hardware Requirements</a>.)</p> <ul style="list-style-type: none"> <li>After starting with the base size, scale up by 2 MB for every 5,000 files scanned. Begin by estimating how much you will scan in the first 6 months, and add that to the 30 GB base size.</li> <li>As for data volume, FlexNet Code Insight does not move enormous amounts of data, nor does it have extremely high concurrent transaction rates.</li> </ul>	

## Additional Notes about Hardware Requirements

Note the following about hardware requirements:

- Ensure that you allocate sufficient buffer pool size to the database. Otherwise, the Electronic Update might not complete. For MySQL, set the innodb buffer pool size to a minimum of 1 G (`innodb_buffer_pool_size = 1G`).
- For SQL Server, it is strongly recommended that the database and the Core Server reside on the same machine (with a minimum hard-drive requirement of 50 GB for the database and 30 GB for the Core Server, for a total of 80 GB).

## CPU Specifications

The following table lists CPU specifications based on the memory requirements for your Code Insight hardware configuration, as described in [Supported Hardware Configurations](#).

For example, if you intend to use the recommended 32 GB RAM for the Core Server (as listed in [Supported Hardware Configurations](#)), the CPU specifications for the machine running the Core Server include 2-CPU, each at least 2 GHZ+, with 8+ cores (as listed below).

Memory	CPU (Cores)
<b>64 GB</b>	2-CPU (each at least 2 GHZ+) with 8+ cores
<b>32 GB</b>	2-CPU (each at least 2 GHZ+) with 8+ cores
<b>16 GB</b>	2-CPU (each at least 2 GHZ+) with 4+ cores

## Software

FlexNet Code Insight requires or supports the following software:

- [Software Packages](#)
- [Supported Browsers](#)

## Software Packages

The following software packages are supported and/or required:

Software	Description	Download URL
<b>Java JDK</b>	<p>Required on each instance where a Code Insight server—the Core Server and each remote Scan Server—is installed. Select one of these JDK types. (Use the latest Java update when possible.)</p> <ul style="list-style-type: none"> <li>Oracle JDK 8 (64-bit) (update 181)</li> </ul> <p>You must purchase a license from Oracle to ensure that you receive updates.</p> <ul style="list-style-type: none"> <li>Zulu OpenJDK 8 8u192 (64-bit) (from Azul)</li> </ul>	<p><b>Oracle JDK 8</b></p> <p><a href="http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html">http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html</a></p>
		<p><b>Zulu Open JDK 8</b></p> <p><a href="https://www.azul.com/downloads/zulu/">https://www.azul.com/downloads/zulu/</a></p>
<b>Java JRE</b>	<p>Oracle JRE 8 (64-bit) (update 172) required on client server to launch Detector.</p> <p>In general, use the latest Java update when possible. You must purchase a license from Oracle to ensure that you receive updates.</p>	<p><b>Oracle JRE 8</b></p> <p><a href="http://www.oracle.com/technetwork/java/javase/downloads/jre8-downloads-2133155.html">http://www.oracle.com/technetwork/java/javase/downloads/jre8-downloads-2133155.html</a></p>
	<p></p> <p><b>Note</b> • <i>Not required for Workflow-only installations or on client servers that already have the JDK installed.</i></p>	
<b>Database Client</b>	<p>Required to access the [ProductName] database server and to execute database scripts (but not required if the database is to be managed directly from the database server).</p> <p>Any basic client application or command line client interface may be used. Several options are listed on the right.</p>	<p><b>MySQL</b></p> <p><a href="http://www.heidisql.com/download.php">http://www.heidisql.com/download.php</a></p>
		<p><b>Oracle</b></p> <p><a href="http://www.oracle.com/technetwork/database/features/instant-client/index-097480.html">http://www.oracle.com/technetwork/database/features/instant-client/index-097480.html</a></p>
		<p><b>MS SQL Server</b></p> <p><a href="https://msdn.microsoft.com/en-us/library/mt238290.aspx">https://msdn.microsoft.com/en-us/library/mt238290.aspx</a></p>

Software	Description	Download URL
<b>JDBC Database Driver</b>	<p>Required on each instance where a Code Insight server—the Core Server and each remote Scan Server—is installed to enable access to the database.</p> <p>Download the driver corresponding to your database type and do one of the following:</p> <ul style="list-style-type: none"> <li>If using the supplied installer (codeinsight_6.x.jar) to install Code Insight, copy the driver .jar file to the directory containing the installer. The installation process automatically copies the driver to the tomcat\lib location.</li> <li>If manually installing FlexNet Code Insight, copy the downloaded .jar file to the following location:  <pre>&lt;Code Insight_ROOT_DIR&gt;\ &lt;version&gt;\tomcat\lib\</pre> </li> </ul>	<p><b>MySQL</b> <b>mysql-connector-java-5.1.45.jar (MySQL 8):</b>  <a href="https://downloads.mysql.com/archives/c-j/">https://downloads.mysql.com/archives/c-j/</a> (select Product Version 5.1.45 and download)</p> <p><b>mysql-connector-java-5.1.x-bin.jar (MySQL 5.6, 5.7):</b>  <a href="http://dev.mysql.com/downloads/connector/j/5.1.html">http://dev.mysql.com/downloads/connector/j/5.1.html</a></p> <hr/> <p><b>Oracle</b> <b>ojdbc8.jar (Oracle 18c, 19c):</b>  <a href="https://www.oracle.com/database/technologies/appdev/jdbc-ucp-183-downloads.html">https://www.oracle.com/database/technologies/appdev/jdbc-ucp-183-downloads.html</a></p> <p><b>ojdbc6.jar (Oracle 11g, 12c R1) or ojdbc7.jar (Oracle 12c R2):</b>  <a href="http://www.oracle.com/technetwork/database/enterprise-edition/jdbc-112010-090769.html">http://www.oracle.com/technetwork/database/enterprise-edition/jdbc-112010-090769.html</a></p> <hr/> <p><b>MS SQL Server</b> Use this site to download the driver appropriate for the type of Java JDK (JDK or OpenJDK) that you are using:  <a href="https://docs.microsoft.com/en-us/sql/connect/jdbc/system-requirements-for-the-jdbc-driver?view=sql-server-2017">https://docs.microsoft.com/en-us/sql/connect/jdbc/system-requirements-for-the-jdbc-driver?view=sql-server-2017</a></p>
<b>Other</b>	An email account is required to send email notifications from the Code Insight server.	

## Additional Notes about Software Requirements

Note the following about software requirements:

- Support for Java 7 (JDK and JRE) was removed in FlexNet Code Insight 6.12.0. Ensure that you use Java 8 (JDK and JRE) with a compatible update version.
- Code Insight provides support for Zulu OpenJDK 8 only. Other OpenJDK applications might work with Code Insight but are not recommended.
- Support for Java 11 is not available.
- Java software updates released after the FlexNet Code Insight 6.12.3 release date are not guaranteed to be compatible. If you encounter an issue running a newer update, notify support, which will resolve these issues on a best effort basis and issue a hotfix as needed.
- For the Oracle 19c database, the recommendation is to use the ojdbc8.jar database driver (as listed in this table), not the ojdbc10.jar driver.

## Supported Browsers

FlexNet Code Insight supports the following browsers:

Supported	Recommended
<ul style="list-style-type: none"><li>Firefox (latest stable version)</li></ul>	<ul style="list-style-type: none"><li>Firefox (latest stable version)</li></ul>
<ul style="list-style-type: none"><li>Google Chrome (latest stable version)</li></ul>	<ul style="list-style-type: none"><li>Google Chrome (latest stable version)</li></ul>
<ul style="list-style-type: none"><li>Internet Explorer 10, 11</li></ul>	<ul style="list-style-type: none"><li>Internet Explorer 11</li></ul>

## Ports

FlexNet Code Insight typically uses the following ports:

Port	Details
<b>1433/1521/3306</b>	Database Server Access Port (MS SQL Server, Oracle, MySQL)
<b>8888/443</b>	Tomcat (http/https)
<b>465</b>	External SMTP (mail) Server
<b>389</b>	External Authentication Directory Server (Active Directory/LDAP)
<b>8005 and 8009</b>	Tomcat Connector and Tomcat Shutdown Ports ( <i>local access only</i> )

Note the following:

- All ports used by FlexNet Code Insight are configurable. If any listed port is already in use or is not supported by your company policy, configure an alternative port.
- Ensure that any port that you configure for Code Insight is allowed through your system firewall.

## Source Code Management

FlexNet Code Insight supports the following the Source Code Management products in its workflow:

SCM	Sample Client Download
<b>GIT</b>	<a href="http://git-scm.com/downloads">http://git-scm.com/downloads</a>
<b>Subversion (SVN)</b>	<a href="http://tortoissvn.tigris.org/">http://tortoissvn.tigris.org/</a>
<b>Team Foundation Server (TFS)</b>	<a href="https://www.visualstudio.com/downloads/">https://www.visualstudio.com/downloads/</a>
<b>Perforce</b>	<a href="https://www.perforce.com/downloads">https://www.perforce.com/downloads</a>

## Resolved Issues

The following issues have been resolved in this release:

Issue	Summary
<b>SCA-6110</b>	Ability for users with any permissions to delete pending, approved, or rejected requests using the <b>workflow/deleteRequest</b> REST API. However, request deletions should be restricted to draft requests only and performed only by the request owner.
<b>SCA-10373</b>	No detection of transitive dependencies for NPM and first-level and transitive dependencies for Nuget when Code Insight runs in proxy mode.
<b>SCA-17249</b>	Enhancement: New report option to ignore empty inventory during report generation for those reports that show inventory. See <a href="#">Option to Ignore Empty Inventory in Report</a> .
<b>SCA-20843</b>	Creation of projects with same name erroneously occurring when different users simultaneously copy the same project.
<b>SCA-22052</b>	Custom remap script not updating the PAS_ITEM table with component and component version remaps.
<b>SCA-22312</b>	Documentation enhancement: Summary of software development “ecosystems” supported by CodeAware now available. See <a href="#">Summary of Development Ecosystems Processed by CodeAware</a> for more information.
<b>SCA-22533</b>	Issue with POM analyzers bypassing proxy and retrieving dependencies using the direct URL.
<b>SCA-22914</b>	Unauthorized access to DWR functions.
<b>SCA-23323</b>	False-positive detection for the following licenses: Academic Free License, Xinetd, and Sendmail. Additionally, there is no detection of the X11 license.
<b>SCA-23346</b>	Security issues with Tomcat version installed with Code Insight. (To resolve these issues, Code Insight has upgraded from Tomcat 7.0.94 to 7.0.103 in this release.)

Issue	Summary
SCA-23482	Scan failure when a custom security vulnerability is a duplicate of a vulnerability found in the Code Insight Data Library. (The custom vulnerability is not being deprecated.)
SCA-23639	<b>Enable Analyzer</b> option not available in the Web UI if Core Server and Scan Server are configured on different machines (even though Analyzer availability is enabled in the <code>scanEngine.properties</code> file on the Scan Server).
SCA-23723	Documentation enhancement: Description of the <code>san</code> parameter used in the self-signed certificate generation now included in documentation for Code Insight SSO configuration. See <a href="#">“san” Parameter Description for Generating Self-Signed Certificates in SSO Configuration</a> for more information.
SCA-23820	No detection of SunPro license.
SCA-23885	Proxy connections failing for Maven packages.
SCA-24156	Enhancement: Project Copy now copying custom statuses.
SCA-24163	Enhancement: Project export and import now processing custom statuses.
SCA-24234	No detection of GPLv3+, OFL-1.1 and CC-BY-4.0 licenses.
SCA-24371	Exception occurring when the <code>deleteDraftRequest</code> Java method attempts to delete draft requests associated with a license or component that has a -1 value. (The -1 value represents “I don’t know” for the license and “Could not find component” for the component.)

## New Features and Enhancements

The following features and enhancements were introduced in this release:

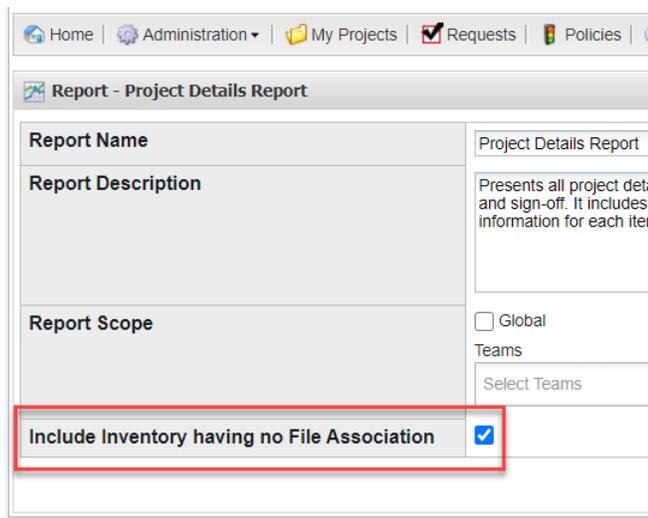
- [CodeAware Enhancements](#)
- [Option to Ignore Empty Inventory in Report](#)
- [Custom Statuses Now Processed During Project Copy, Export, and Import](#)
- [Enhancements and Updates to FlexNet Code Insight APIs](#)
- [User Documentation Enhancements](#)

# CodeAware Enhancements

CodeAware has been enhanced to support the detection of third-party inventory in additional ecosystems (each encompassing a language, package type, and public registry) and, for already-supported ecosystems, to process additional types of manifest files and discover more levels of dependent inventory. For a complete description of CodeAware-supported ecosystems, refer to the “Automated Analysis” topic in the online help or the *FlexNet Code Insight User Guide*.

## Option to Ignore Empty Inventory in Report

A new option, **Include Inventory Having No File Association**, has been added to the **Report** page for a given report to indicate whether empty inventory (that is, inventory with no associated files) should be shown in the report. This option is available for all reports that include inventory.



## Custom Statuses Now Processed During Project Copy, Export, and Import

FlexNet Code Insight now retains custom inventory statuses during a project Copy, Export, or Import. This enhancement enables users to resume audit or review activities on inventory associated with custom statuses in the copied or imported data.

## Enhancements and Updates to FlexNet Code Insight APIs

The following sections provide a quick reference to the FlexNet Code Insight API enhancements in this release:

- [Updates to Existing REST APIs](#)

## Updates to Existing REST APIs

Refer to this table for the list of changes in existing Code Insight REST APIs. You can find details about these and other Code Insight REST APIs in the Code Insight Swagger documentation, accessed from the **Help > Documentation** section of the Code Insight user interface, as well as from the /docs directory of your Code Insight installation.

Resource	API Name	Method	Change
Request	/request/getRequests/{projectID}	GET	The following parameter is now included for each retrieved request to indicate whether a Condition of Use that exists for a request has been acknowledged:
	/request/getRequestsByComponent/{projectID=?componentName=?&componentVersion=?}	GET	openCOU="true false" The parameter value is determined by these conditions:
	/request/getRequestsByStatus/{projectID}/{status}	GET	<ul style="list-style-type: none"><li>• If a request has been assigned a Condition of Use but the condition is awaiting acknowledgment, the value is <b>true</b>.</li><li>• If a request containing a Condition of Use has been approved or rejected by the requester, the value is <b>false</b>.</li><li>• If a request does not have a Condition of Use, the value is <b>false</b>.</li></ul>

## User Documentation Enhancements

The following enhancement were incorporated in the FlexNet Code Insight user documentation.

### Summary of Development Ecosystems Processed by CodeAware

The “Automation Analysis” topic in the online help or the *FlexNet Code Insight User Guide* now contains a summary of the software development “ecosystems” (based on language, package type, and public registry) currently supported by CodeAware for the discovery of open-source and third-party software in codebases.

### “san” Parameter Description for Generating Self-Signed Certificates in SSO Configuration

The instructions on how to generate a self-signed security certificate when configuring Single Sign-On for Code Insight now include a description for specifying the san parameter, used to identify all domains secured by the certificate. This information is found in the in the “Configuring FlexNet Code Insight for Single Sign-On (Optional)” topic in the online help or the *FlexNet Code Insight Installation and System Administration Guide*.

## Instructions for Including Requests in the Third-Party Notices Report for Requests

The following KB article (in the Flexera Community) is now available, detailing how to configure a Code Insight request and its associated third-party notices content so that this information is included in the Third-Party Notices Report for Requests:

[https://community.flexera.com/t5/FlexNet-Code-Insight-Customer/Including-Requests-in-the-Third-Party-Notices-Report-for-Requests-\(6x\)/ta-p/149569/jump-to/first-unread-message](https://community.flexera.com/t5/FlexNet-Code-Insight-Customer/Including-Requests-in-the-Third-Party-Notices-Report-for-Requests-(6x)/ta-p/149569/jump-to/first-unread-message)

# Deprecations and Other Notifications

This sections lists deprecations and other important information about FlexNet Code Insight functionality:

- [Analyzer Available Only by Manual Enablement](#)
- [End of Support for Java 7](#)
- [Point Detector Functionality No Longer Supported](#)
- [End of Support for Secunia Community Site](#)

## Analyzer Available Only by Manual Enablement

The Analyzer is available for workspace scans and reporting only if it is manually enabled in your Code Insight installation. By default, it is no longer displayed as an option on the **Automated Analysis** tab nor are its associated reports available for generation from the **Schedule Scan/Report** dialog.

To re-enable the Analyzer in your Code Insight installation, update the `disableAnalyzer` property, located in the `scanEngine.properties` file, to **false**. For details, see the online help or the *FlexNet Code Insight Installation and System Administration Guide*.

## End of Support for Java 7

Support for Java 7 (JDK 7 and JRE 7) is no longer available as of FlexNet Code Insight 6.12.0. If you are currently using FlexNet Code Insight with Java 7, upgrade to Java 8 to ensure that your application runs in a secure environment.

## Point Detector Functionality No Longer Supported

As of the 6.12.3 release, Point Detector functionality is no longer supported.

# End of Support for Secunia Community Site

The Secunia Community site will become inaccessible at the end of February. As of the 6.13.1 release, links to Secunia Advisories on the **Vulnerabilities** dialog and on reports are disabled. Note, however, that a future release of Code Insight will incorporate the following changes to once again provide access to Secunia data:

- Deliver additional Secunia Advisory properties (currently visible on the Secunia Community site) to Code Insight through the Electronic Update service.
- Provide a new Get Vulnerability Details REST API to obtain the additional Secunia Advisory data.
- Develop a new “vulnerability details” interface to display additional Secunia Advisory data.

## Technical Notes & Known Issues

The following sections provide information you need to be aware of when using the various functional areas of FlexNet Code Insight:

- [Installation](#)
- [Electronic Update](#)
- [Migration and Backup](#)
- [APIs](#)
- [Scanning and Analysis](#)
- [Reporting](#)
- [Code Search](#)
- [Project Copy](#)
- [SPDX Generator Report](#)
- [ScriptRunner and Scripting](#)
- [Workflow](#)
- [Web UI](#)

## Installation

### Enabling the AJP connector in the Tomcat installation

The Apache Tomcat version installed with FlexNet Code Insight 6.14.1 (and later) provides the Apache JServ Protocol (AJP) connector, which is disabled by default at installation. Although Code Insight does not require this connector, you might need it to support a Tomcat load-balancing scenario for your Code Insight environment. For instructions on how to manually enable and disable this connector, refer to the following KB article:

<https://community.flexera.com/t5/FlexNet-Code-Insight-Customer/Enabling-the-Apache-JServ-Protocol-Connector-in-Tomcat/ta-p/146179/jump-to/first-unread-message>

## Java HotSpot(TM) 64-Bit Server VM warning:ignoring option MaxPermSize=512m; support was removed in 8.0 (SCA-276)

If you encounter this warning while running the FlexNet Code Insight Installer or scriptRunner, it is likely that you are running FlexNet Code Insight with Java 7. Upgrade to Java 8 to resolve the issue.

# Electronic Update

## Failure to remap custom versions for components (SCA-25737)

The Electronic Update fails to remap custom component versions to component versions in the Data Library (PDL). This issue occurs only when the remapping is enabled for the Update (that is, `update.remap.enabled = true` in `core.properties`).

Note that, should this issue occur, it does not cause the Electronic Update to fail. The version remap process throws an exception in the log, but the Electronic Update continues.

**Workaround:** You can run a script that performs the remapping once the Electronic Update completes. Refer to this KB article instructions:

<https://community.flexera.com/t5/FlexNet-Code-Insight-Customer/Using-the-Custom-Data-Remap-Script-to-Remap-Custom-Versions-in/ta-p/150884>

## Emails not triggered for remapped custom vulnerabilities for custom component versions associated with inventory (SCA-25844)

Normally, when a custom vulnerability assigned to a given component version is remapped during an Electronic Update *and* the component version is already associated with an inventory item, an email is triggered, informing users of the “new” vulnerability for the inventory item. However, if a custom vulnerability for a *custom* component version associated with inventory is remapped, no email message is triggered currently.

This issue will be addressed in a future release.

## Unicode data on SQL Server (PAS-11158)

Some PDL columns in the FlexNet Code Insight database schema do not currently support UTF-16 characters. As a result, users may see duplicate key errors in `core.update.log` when running Electronic Update on SQL server. This issue has been partially addressed in the current release of FlexNet Code Insight, available as part of migration and will be fully resolved in the next release. SQL server users are advised to ignore duplicate key errors when running an electronic update.

## Electronic Update buffer pool size

If you experience a failure when running Electronic Update on a MySQL or SQL Server database, ensure that the Buffer Pool Size systems is set to a minimum of 1 GB. Look for an out-of-memory error in the logs. See the Knowledge Base or contact support if you need further instructions.

# Migration and Backup

## Backward compatibility of Export/Import scripts

In FlexNet Code Insight 6.11.2, changes were introduced to the Export/Import scripts to allow export and import of inventory questions/answers, comments and inventory status. Note that this functionality requires the updated scripts *and* product APIs that are only available in FlexNet Code Insight 6.11.2 and later. The scripts will not export these entities on earlier versions of the product.

To export data from an older version of FlexNet Code Insight and import it into FlexNet Code Insight 6.14.1, do one of the following:

- Update your FlexNet Code Insight instance to FlexNet Code Insight 6.14.1 by following standard migration procedures. Use the export script shipped with FlexNet Code Insight 6.14.1 to export the data. Use the import script shipped with FlexNet Code Insight 6.14.1 to import the data.



---

**Note** • This will process inventory questions/answers, comments, and inventory status.

- Use the export script designed to work with your version of FlexNet Code Insight to export the data. Use the import script shipped with FlexNet Code Insight 6.14.1 to import the data.



---

**Note** • This process will not process inventory questions/answers, comments, or inventory status.

## APIs

### REST API Component Search hangs in non-summary mode (SCA-330/PAS-11184)

The REST API for component search hangs when searching for components that have a large amount of associated data. For example, searching for Apache Tomcat (ID 33045) with **summaryOnly** view disabled results in an error.

**Workaround:** Search with the summary mode turned on, as in the example:

<http://localhost:8888/palamida/api/component/componentData?componentIds=33045&summaryOnly=on>

### REST API to update requests

The REST API to update a request may be used to update any request attribute in the request except for the selected component. To update the requested component, use the new `updateRequestedComponent` API included in this release. You may also use `updateRequestedVersion` and `updateRequestedLicense` to update the version and license without affecting other data.

# Scanning and Analysis

## Code Insight not applying default port in startup URL (SCA-23973)

If the URL that starts up the Code Insight Core Server and each Scan Server does not include a port, Code Insight does not automatically apply a default port, causing the startup to fail.

**Workaround:** Before starting a Code Insight server, ensure that the URL used to start up the server explicitly identifies the port (**80** for HTTP, **443** for HTTPS).

## Group Builder reports not shown if Scan Servers have different “disableAnalyzer” values (SCA-21054)

Group Builder reports are not generated if multiple Scan Servers are configured with different values for the `disableAnalyzer` property in their `scanEngine.properties` file.

**Workaround:** If possible, configure all Scan Servers with the same value (**true** or **false**) for the `disableAnalyzer` property.

## Multi-archived files not being associated with inventory (SCA-18782)

CodeAware uses a third-party utility provided by Apache to untar files. This utility does not recognize gz archives as valid and thus is unable to extract their contents for association with inventory during a scan.

## CodeAware groups without associated component/version not being published (SCA-17301)

CodeAware groups without a selected component/version are not published to inventory. The Analyst should review the groups and associated findings for completeness and accuracy, and manually publish them to inventory based on their assessments.

## Deleted groups reappearing on rescans (SCA-16931)

System-generated groups that were deleted during the auditing process are reappearing on a rescan.

## Core Server not recognizing other Scan Servers when one becomes unresponsive (SCA-16549)

The Core Server fails to recognize other Scan Servers (in a multiple scan-server configuration) when one of the servers becomes unresponsive. You can check the Code Insight logs to determine which server is unresponsive so that you take appropriate action such as force-restarting the server.

## Added product catalog entries not showing up in the request form until submitted (SCA-4490)

When some product catalog items are added while creating a request, the items do not show up on the creation page. However, when the request is submitted, the entries are shown.

## Inventory not showing license text on Inventory Page for Cocoapod packages (SCA-4451)

When a Cocoapod package is scanned, the workspace inventory page does not show the license text when you click **View As-Found License Text**.

## License matches in CSS files match entire file content (SCA-289/PAS-11021)

When a CSS file has license text included, scan results match the whole file to a license. No workaround is available. However, this issue will be addressed in the next generation of the product.

## Exception during commit on Oracle: ORA-01400: cannot insert NULL into PALAMIDA.PSE\_SCANNED\_ITEMS.NAME (SCA-278/PAS-10636)

This error occurs when scanning files inside archives that do not have a proper name.

**Workaround:** Rename the files or scan with archives “off”.

## Scan hangs with for file paths containing special characters (PAS-11096)

The issue occurs due to non-UTF8 encoding. We are investigating a fix for the next release.

## Analyzer: P1-P3 legends are not showing colors in (PAS-11074)

Priority colors are not showing correctly in the Bill of Materials in IE, Firefox and Edge.

**Workaround:** Use Chrome.

## Group and tag counts for files inside archives (PAS-10134)

When files inside archives are added to/removed from groups, are tagged/untagged, or are marked as reviewed/unreviewed, group and tag file counts are not affected—that is, they do not increase or decrease. This behavior applies to all scan settings including the “scan files inside archives=on” setting.

For example, if a workspace contains 20 files total, one of which is an archive `foo.zip` with 1000 inner files, marking 1000 inner files as reviewed will *not* increase the “Reviewed” tag count.

This behavior is in place after considering extensive feedback from customers who reported that including archive files in the count skews the perception of the amount of total work done. Per the example, seeing the number of files reviewed jump to over 1000 would confuse most auditors. For this reason, Code Insight does not include inner files of archives in the file counts. Best practice is to always mark the outer archive as reviewed when dealing with archives.

## Tag Archive for Scanning group/tag counts (PAS-10110)

FlexNet Code Insight offers the option to tag a specific archive for scanning so that files inside archives are processed for indicators in future scans. Note that group and tag file counts will not be updated to include files inside the archives when this tag is turned on. We will continue to work on this feature pending customer feedback about how to process file counts for archives. See the [Group and tag counts for files inside archives \(PAS-10134\)](#) issue for additional information.

## Detector file tree count is inconsistent with group/tag counts (PAS-9917)

It is not uncommon to see a Detector file tree count differ from the group/tag counts. The count in the lower left-hand corner of Detector represents the total number of *nodes* currently available in the Detector file tree. In the presence of inner files of archives (which are not included in group/tag file counts, this number is typically larger than the group/tag count. For additional information regarding this count, see the “Archive File Counts/ Nested Archives” section of the *FlexNet Code Insight User Guide*.

## Incremental scan affects file counts (PAS-2829)

The workspace file counts incorporate files that have been deleted prior to last scan if incremental scan is disabled. Files that have been deleted prior to the last scan may still be counted toward the total file with and without indicators value.

**Workaround:** Enable incremental scanning.

## Copyrights with multi-byte characters may not be detected by the scanner (PAS-2774)

If a copyright statement contains multi-byte characters, the copyright will be classified as - unparseable- rather than as a valid copyright with a valid copyright holder. No workaround is available.

## Ignore workspace matches is not reliable (PAS-2405)

The Ignore Workspace Matches option for components in Detector (whether done one at a time or in bulk) does not always suppress all matches to this component.

**Workaround:** Mark any groups created for the component you wish to ignore as “Ignored”.

## Limitations for custom inventory statuses

Currently custom inventory items show as “Unknown” in Code Insight reports, are not available for inventory searches, and are not supported in the Detector and in APIs.

## Procedure to disable the display of RubySec security advisories

For various reasons, when analyzing and reviewing project inventory, a customer might not want to view vulnerabilities available from *all* security data sources supported by FlexNet Code Insight. The following property has been added to the `core.properties` file to disable (or enable) the display of security vulnerability information gathered from RubySec advisory sites. By default, the property is set to `false`. By setting it to `true`, vulnerability data from RubySec advisories is *not* displayed.

```
disable.rubysec=true
```

Additionally, if you make a change to this property, Code Insight must be restarted and an Electronic Update performed to put the change into effect.

The following property has also been added to enable (or disable) the ability to force an Electronic Update. By default, the property is set to `false`. By setting it to `true`, the user can manually trigger an Electronic Update as needed (using the Manual Update facility accessed through **Administration | Updates**):

```
enable.forceupdate=true
```

## Analyzer configuration to parse transitive dependencies in POM files

As of 6.12.1, the Analyzer executes as an autorun script that no longer needs to process the `analyzer.properties` file for configuration purposes. In general, the Analyzer parses transitive dependencies of jar files in a `pom.xml` file, but the autorun script is limited to parsing only those files found within the scan root folder of the workspace. A setting in the formerly used `analyzer.properties` file, however, parses transitive dependencies in POM files whether those dependencies are within or outside of the scan root folder of the workspace.

To ensure that transient dependencies external to the scan root folder are parsed, enable the “transitive dependencies” functionality available in `analyzer.properties`:

1. Navigate to **Administration | Metadata**.
2. Select the **Project** tab.
3. Click the **Add Project Metadata Field**, and follow these steps to create a metadata field:
  - a. In the **Name** and **Display Name** fields, enter **Analyzer Resolve Transitive Dependencies**.
  - b. Select **Yes/No** for **Input Type**.
  - c. Click **Save**.
4. Click **My Projects**, and open a project.
5. Click the **View Project Metadata** button on the **Summary** tab.
6. Click **Edit**, and select **Yes** for **Analyzer Resolve Transitive Dependencies**.
7. Click **Save**.

For each project workspace scanned with the Analyzer enabled, transitive dependencies are parsed, even those external to the scan root folder.

## Reporting

### Workspace Evidence Report – detected license does not match Auto-WriteUp (PAS-11071/SCA-285)

Workspace Evidence Report shows no “Detected License” value even though Auto-WriteUp has detected groups with licenses.

## Code Search

### Issues with Code Search highlights in UTF-8 files (PAS-10849)

UTF-8 files do not display correctly in Detector, and highlighting is either unavailable or shifted by one or more characters. Detector supports only encodings for which each character is a single byte, such as US-ASCII and ISO-8859.

**Workaround:** Switch the file type from “Auto” to “Binary”, and use “CTRL-F” to locate the search result within the file.

## Code Search hanging during index process

Some customer scans have hung during indexing while in Tika processing. To avoid this problem, set `indexTikaParseLen = 0` in `scan.properties`.

# Project Copy

## Project Copy error after switching request forms (SCA-313/PAS-11127)

Project Copy is not supported for projects that contain requests that reference more than one request form. No workaround is available.

# SPDX Generator Report

## License matches include more text than just license (SCA-2327)

The SPDX Generator Report shows too much license text in some cases. This is due to license detection limitations in FlexNet Code Insight. We hope to resolve this issue in the near future with a new regex implementation for license matching.

**Workaround:** Ensure that you perform a review of all group license data, and make modifications to the “As-Found License Text” group field value to override any automated extracted licenses processed by the report.

## Copyright detection captures non-copyright strings

The SPDX Generator Report displays non-copyright strings in some cases. This is due to a limitation to automated copyright detection in FlexNet Code Insight.

**Workaround:** Ensure that you perform a review of all group copyright data, and make modifications to the “Copyright Text” group field value to override any extracted copyrights processed by the report.

## Custom associations of components not being copied during Project Copy

Custom associations of components to namespaces are not copied over during a project copy.

**Workaround:** Re-apply the custom association for each target workspace once the project copy completes.

# ScriptRunner and Scripting

## NoSuchMethodError on some scripts/reports (PAS-10740)

This issue occurs due to a potential mismatch in the ant and ant-launcher jars. If you encounter a “NoSuchMethodError” when attempting to run a script or report, replace the ant-launcher jar file in the webapps directory with `ant-launcher-1.8.3.jar`.

## Space in command-line argument to scriptRunner Scripts

Some users are reporting issues in running scriptRunner scripts if the command line argument to the script contains a space. This issue can be addressed by surrounding the line argument with single or double quotes.

For example, to pass the project name “My Project” to the `exportWorkspaceData.groovy` script, use the following commands:

#### Linux

```
./scriptRunner.sh -u myUser -c http://localhost:8888/palamida/ ../scripts/  
exportWorkspaceData.groovy -project 'My Project'
```

#### Windows

```
./scriptRunner.bat -u myUser -c http://localhost:8888/palamida/ ../scripts/  
exportWorkspaceData.groovy -project "My Project"
```

### Changes to scriptRunner library jars causing issues for older scripts

Scripts that rely on older POI libraries may not work in this version of the product.

**Workaround:** Manually add the libraries to the `/scriptRunner/lib` directory, and modify `scriptRunner.conf` file to include the jars. As an alternative, modify the script for compatibility with POI 11.

## Workflow

### Dynamic constraint definition with non-visible values (PAS-10794)

Dynamic default values and rules support dynamically changing the dropdown list values based on the value of another field. However, this only works if the dropdown list form field is currently visible/editable in the current state. No workaround is available.

## Web UI

### Research page not sorting properly with “Important Only” Turned Off (SCA-20764)

When you unselect **Important Only** on the **Research** page for components, the results are sorted by page, not by the total number of records.

### Review Status column sorting with “Show All” unchecked (PAS-11129)

Users may see review status out of order when sorting on a subset of available items.

**Workaround:** Use “Show All” when sorting.

### Web session timeout taking user to Login.htm instead of SSO login (PAS-10238)

This issue applies only to SSO environments. In the case that the user is taken to the `Login.htm` page instead of back to the last accessed page, users should use the browser’s “back” button to return to the page. As an alternative, the `Login.htm` page may be modified to instruct the user to start a new session. For example, “Sorry, your session has expired—please close and relaunch your browser to start a new session”.

# Configuring Dynamic Selection of a Request Reviewer

This FlexNet Code Insight feature (also called the People Picker) allows a user to select an individual (such as a manager) as the designated assignee for a component request at a particular review level. For example, your company's business logic might dictate that the first review on a request for an OSS component be performed by the requester's direct manager. FlexNet Code Insight supports this scenario by allowing the workflow project owner to designate a form field that enables the selection of an appropriate reviewer for a particular review level. At runtime, the requester can then use this field to search a pool of managers in order to choose one assignee to continue the review process.

The following procedure provides an example of how to update the short request form (`request_form_short.sql`) and long request form (`request_form_long.sql`) for your database to add a reviewer selection field. Both scripts are located for your database type in the `dbScripts` directory of your Code Insight installation directory.



## Task

### To configure a new field for the dynamic selection of a reviewer:

1. Execute the following appropriate update scripts in your database to display a reviewer selection field for a specific review level on the short or long request form. Note the following about the scripts:
  - The attribute name in the example is **PeoplePickerList**; the displayed field name is **People Picker List**. However, you can provide your own names for the attribute and field.
  - The attribute must have an `INPUT_TYPE` and `TYPE` value of `P`.

#### Short Form Scripts

Run both scripts to update the short request form with a viewer selection field:

```
INSERT INTO PAS_REQ_DEF_ATTR
(ID_,REQUEST_DEFINITION_ID_,STAGE_ID_,SEQUENCE_,NAME_,DISPLAY_TEXT_,INPUT_TYPE_,TYPE_,HEL
P_TEXT_) VALUES (1111,1,1100,13, 'PeoplePickerList', 'People Picker List', 'P', 'P', NULL);
```

```
INSERT INTO PAS_REQ_DEF_ATTR_ACCESS_RULE (ID_, REQ_DEF_ATTR_ID_, ACCESS_TYPE_,
WORKFLOW_ROLE_ID_, REVIEW_LEVEL_, REVIEW_LEVEL_STATE_) VALUES (111101,1111, 'E', 1,0, 'E');
```

#### Long Form Scripts

Run both scripts to update the long request form with a viewer selection field:

```
INSERT INTO 6110db.PAS_REQ_DEF_ATTR
(ID_,REQUEST_DEFINITION_ID_,STAGE_ID_,SEQUENCE_,NAME_,DISPLAY_TEXT_,INPUT_TYPE_,TYPE_,HEL
P_TEXT_) VALUES (2112,1,2100,12, 'PeoplePickerList', 'People Picker List', 'P', 'P', NULL);
```

```
INSERT INTO 6110db.PAS_REQ_DEF_ATTR_ACCESS_RULE (ID_, REQ_DEF_ATTR_ID_, ACCESS_TYPE_,
WORKFLOW_ROLE_ID_, REVIEW_LEVEL_, REVIEW_LEVEL_STATE_) VALUES (211201,2112, 'E', 1,0, 'E');
```

2. As an administrator, create a user list to which to point the new attribute. For instructions on creating a user list, refer to the “Administration Menu: Users Option” topic in the online help or in the *FlexNet Code Insight User Guide*. This list must contain the specific users (for example, managers) from which you want the person creating the request to select a reviewer. Be sure that the **User List Type** is set to **Reviewer**.

For purposes of this example, the user list created is called **ReviewList**.

3. In your Code Insight installation directory, open the `config/core/core.properties` file in a text editor, and add the following line to identify the new property:

```
<REQUEST_ATTRIBUTE_NAME>.filtered.userlist = <USER_LIST_NAME>
```

where:

- `<REQUEST_ATTRIBUTE_NAME>` is the name of the attribute (the `<NAME>` value used in the script in step 1).
- `<USER_LIST_NAME>` is the name of the user list created in step 2.

For this example, you would enter the following:

```
PeoplePickerList.filtered.userlist = ReviewList
```

4. (Optional) Note that, by default, requesters can select their own name from this list of potential reviewers when it is opened in the Code Insight user interface. If you want to disable the ability of requesters to select themselves as reviewers (for security reasons, for example), set the following property to `true` in `core.properties`:

```
people.picker.disable.self.approve=true
```

With this configuration, when requesters attempt to select their own name, they receive a message stating their inability to do so and forcing them to make another selection.

5. Restart the Code Insight Core Server.
6. In Code Insight user interface, open a project, navigate to the appropriate “review level” tab on the **Project Details** page, and select the newly created field from the **Select request form field containing reviewers for this review level drop-down list**. In this example, you would select **People Picker List**.
7. Log in to Code Insight as a requester, navigate to the **Requests** dashboard, and select **Add New Request** to add a new request for the project. On the **Usage** tab of the page, you will see the new field containing the user list.

The screenshot shows the 'Additional Information' tab of a component configuration page. It contains several sections:

- Component Name:** A text input field with buttons for 'Search Component', 'View Component Details', and 'Clear Component'.
- Project Name:** A section with 'Team' set to 'Team1' and 'Project' set to 'PeoplePicketTesting'.
- Product Catalog:** A section with 'Add Product Catalog Items' and 'Remove Product Catalog Items' buttons.
- Review deadline:** A date input field set to '10/15/2018'.
- Security questions:** Three questions with radio button options for 'Yes' and 'No':
  - 'Does this component perform "cryptography", or otherwise contain any parts or components that are capable of performing "information security" functions?' (More Information)
  - 'Will this component be modified, re-compiled, or repackaged with any other software?'
  - 'What is the intended usage of this component?'
- Usage dropdown:** A dropdown menu with 'People Picker List' selected and highlighted by a red box.

# Migrating Your Current FlexNet Code Insight Version to 6.14.1

The following describes the process for migrating your current version of FlexNet Code Insight to the latest version:

- [Requirements](#)
- [Preparing the Environment](#)
- [Upgrading FlexNet Code Insight](#)
- [Verifying the Upgrade](#)
- [Reverting to a Previous Version](#)

## Requirements

The following sections describe the requirements for migrating to Code Insight 6.14.1:

- [Supported Code Insight Versions for Migration to 6.14.1](#)
- [Additional Requirements](#)

## Supported Code Insight Versions for Migration to 6.14.1

You can migrate any of the following Code Insight versions to the 6.14.1 version: 6.14.0, 6.13.x, 6.12.x, 6.11.x, 6.10.3, 6.10.0, 6.8.1, 6.8.0, 6.6.2, 6.6.1, 6.1.5, 6.1.4

## Additional Requirements

You will need the following to perform the upgrade:

- The plain text database password for the user and database defined in `core.db.properties`.
- You will need to run an Electronic Update as the final step in the upgrade. The Core Server must have outgoing Internet access on port 22; otherwise you must run the Electronic Update manually.
- Enough free disk space to perform backups. Check the size of your workspaces directory, which may be large.
- The FlexNet Code Insight 6.14.1 distribution zip file. Contact your Flexera representative if you do not have a copy.
- The `migrationImport.groovy` script, located in the `scriptRunner\scripts` directory of your 6.14.1 application directory. This script copies the properties and configurations from your existing application directory (`OLD_DIR`) to the new application directory (`NEW_DIR`) and notifies you of any additional steps needed.
- The `migrate.sh/migrate.bat` script, located in the `scriptRunner\bin` of your 6.14.1 application directory. This script migrates your existing database schema from the existing version of FlexNet Code Insight to the new version.

- If switching from Oracle JDK 8 to Zulu OpenJDK 8 for your SQL Server database, ensure that you have downloaded the appropriate JDBC driver for OpenJDK 8 to the `tomcat\lib` directory. You can locate and download the driver from this site:  
<https://docs.microsoft.com/en-us/sql/connect/jdbc/system-requirements-for-the-jdbc-driver?view=sql-server-2017>
- If you have custom core reports, you must re-run the custom SQL scripts that you initially used to install them.
- (Optional) The `migrateFromAnalyzerToCodeAware.groovy` script located in of your 6.14.1 application directory. This script updates workspaces that were previously configured for the Analyzer to now use CodeAware. If you do not run this script, CodeAware is *not* automatically selected on the **Automated Analysis** tab for existing workspaces. You will need to manually select it for each workspace you intend to rescan using CodeAware.

## Preparing the Environment

These instructions refer to the following variables. You can create a temporary file with this information to use as a reference throughout the migration.



**Note** • The following are examples for a Linux/MySQL installation. Be sure to replace the sample values below with those of your installation.

```
# Current installed version.
OLD_VER="6.13.3"
# Current app directory.
OLD_DIR="/opt/CodeInsight/6.13.3"
# New app directory, which will be created.
NEW_DIR="/opt/CodeInsight/6.14.1"
# Base directory for backups (a 6.14.1 subdirectory will be created).
BACK_DIR="/opt/CodeInsight/backup"
# Core server only - MySQL Database info.
DB_HOST="localhost"
DB_NAME="CodeInsight"
DB_USER="myUser"
DB_PASS="myDbPassword"
# Scan servers only - Workspaces directory.
WS_DIR="/opt/CodeInsight/workspaces"
```

You can paste the above into a file on the server (for example `/tmp/code_insight_env`) and edit the values. Then you can run `source /tmp/code_insight_env` to set the variables used in this guide. After the upgrade is complete, be sure to run `rm /tmp/code_insight_env` if the file contains the database password.

## Upgrading FlexNet Code Insight

The following commands are for Linux. Windows users may choose to perform the steps with a mouse.

1. Shut down FlexNet Code Insight. For multi-server installs, shut down all servers.

```
cd $OLD_DIR/tomcat/bin
./shutdown.sh
```

2. Backup the database. This step applies to the Core Server only.

These commands are for MySQL. If you are using Oracle or SQL Server, obtain a fresh backup from your DBA before proceeding. Make sure your DBA is available to restore the backup promptly in case it is needed.

```
mkdir -p $BACK_DIR/$OLD_VER
cd $BACK_DIR/6.14.1
mysqldump -h $DB_HOST -u $DB_USER --password=$DB_PASS -r migration_db.sql $DB_NAME
```

3. Backup the workspaces directory. This step applies to all Scan Servers.



---

**Note** • This backup may take a long time depending on the size of your workspaces directory.

```
cd $WS_DIR
tar cf $BACK_DIR/$OLD_VER/migration_ws.tar .
```

4. Backup the application directory.

```
cd $OLD_DIR
# clear the tomcat temp files
rm -r tomcat/temp/*
tar czf $BACK_DIR/$OLD_VER/migration_app.tgz .
```

5. Extract the 6.14.1 distribution zip file (CodeInsight-6.14.1.zip) and move it to the new directory.

```
unzip -q CodeInsight-6.14.1.zip -d /tmp
mv /tmp/CodeInsight_6.14.1 $NEW_DIR
```

6. Run the migrationImport.groovy script.

```
cd $NEW_DIR/scriptRunner/bin
./scriptRunner.sh -n ../scripts/migrationImport.groovy $OLD_DIR
```

7. Check the TODO log for any additional steps needed. Complete any necessary steps before continuing.

```
cat $NEW_DIR/scriptRunner/log/migration.TODO.log
```

8. Run the database schema migration. This step applies to the Core Server only.

```
cd $NEW_DIR/scriptRunner/bin
./migrate.sh $OLD_VER
```

If database errors are encountered, rerun the database schema migration after resolving the error.

9. Run the new reports.sql to install new reports. Use the appropriate file according to your database vendor (MySQL in this example). This step applies to the Core Server only.



---

**Note** • The reports.sql file will overwrite any modifications to the report tables in the database. If you have custom reports, you will need to re-run the custom SQL to install them after you have run the new reports.sql file. Make sure you have your custom SQL scripts before you run this.

```
mysql -h $DB_HOST -u "$DB_USER" --password="$DB_PASS" -D $DB_NAME \
-e "source $NEW_DIR/dbScripts/mysql/reports.sql"
```



---

**Note** • FlexNet Code Insight 6.14.1 has features that require a Data Services Enabled key. You can continue to use the application with your existing key, but there will be errors seen with the features that require this key.

10. Start the new FlexNet Code Insight application. For multi-server installs, do this after you have completed the previous steps on all servers.

```
cd $NEW_DIR/tomcat/bin
./startup.sh && tail -f ../logs/catalina.out
```

11. Check the log for any errors, and resolve them before continuing.
12. (Optional) Run the `migrateFromAnalyzerToCodeAware.groovy` script to update workspaces that were previously configured for the Analyzer to now use CodeAware. (The script automatically selects CodeAware on the **Automated Analysis** tab for each of these workspaces; it ignores workspaces already configured for CodeAware.) The script will prompt you for the scope on which it should run—on all projects, on a specific project, or on a specific workspace.

Note the following:

- Before running the script, ensure that the property `disableAnalyzer`, located in the `scanEngine.properties` file, is set to **true**.
- The script is needed for only those project workspaces that you intend to rescan, so select a scope that makes the most sense.
- If you do not run this script, CodeAware is *not* automatically selected on the **Automated Analysis** tab for workspaces previously configured to use the Analyzer. For each workspace that you intend to rescan using CodeAware, you will need to manually select the CodeAware option.

13. Log into the Web UI and run the Electronic Update. This step applies to the Core Server only.



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**Note** • Do not skip this step.

In most cases, the Electronic Update will be scheduled automatically. Check the **Scheduler** tab in the Web UI. If the update is not running, trigger it through **Administration > Updates**, and click **Check for Electronic Update**.

If your application does not have outgoing Internet access on port 22, you will need to run the update manually.



---

**Note** • If you run into any issues with detection of *Cocoapod* packages, re-run the Electronic Update.

## Verifying the Upgrade

1. Log into Code Insight and go to **Help > About** to verify the version.
2. Create a test project and workspace.
3. Ensure that the Detector client launches for the workspace.
4. Close Detector and schedule a scan.



**Note** • If you face certificate errors on startup of the Scan Server or if you are unable to see your Scan Server from the application UI, you must import the certificate being served by Tomcat on the Scan Server into the JDK of the Core Server.

## Reverting to a Previous Version

1. Ensure the FlexNet Code Insight server is stopped. For multi-server installs, ensure all servers are stopped.
2. Restore the database. This step applies to the Core Server only.



**Note** • These commands are for MySQL. If you are using Oracle, have your DBA restore the backup.

```
cd $BACK_DIR/6.14.1
mysql -h "$DB_HOST" -u "$DB_USER" --password="$DB_PASS" -D "$DB_NAME" < db_migration.sql
```

3. Restore the workspaces backup. This step applies to all Scan Servers.



**Note** • If you did not open, create, or scan any workspaces while the new version was running, you can skip this step.

```
cd $WS_DIR
tar xf $BACK_DIR/6.13.3/ws_migration.tar
```

4. Start the previous application. For multi-server installs, do this after you have completed the previous steps.

```
cd $OLD_DIR/tomcat/bin
./startup.sh && tail -f ../logs/catalina.out
```

## Product Support Resources

The following resources are available to assist you with using this product:

- [Flexera Product Documentation](#)
- [Flexera Community](#)
- [Flexera Learning Center](#)
- [Flexera Support](#)

### Flexera Product Documentation

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## Flexera Support

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