Fortify Security Report

Jan 27, 2020

psdravid

Executive Summary

Issues Overview

On Jan 27, 2020, a source code review was performed over the registrationapp code base. 217 files, 3,085 LOC (Executable) were scanned and reviewed for defects that could lead to potential security vulnerabilities. A total of 2 reviewed findings were uncovered during the analysis.

Issues by Fortify Priority Order	
High	2

Recommendations and Conclusions

The Issues Category section provides Fortify recommendations for addressing issues at a generic level. The recommendations for specific fixes can be extrapolated from those generic recommendations by the development group.

Fortify Security Report

Project Summary

Code Base Summary

Code location:

Number of Files: 217

Lines of Code: 3085

Build Label: <No Build Label>

Scan Information

Scan time: 04:17

SCA Engine version: 19.1.0.2241

Machine Name: vclv99-200.hpc.ncsu.edu

Username running scan: psdravid

Results Certification

Results Certification Valid

Details:

Results Signature:

 SCA Analysis Results has Valid signature

Rules Signature:

 There were no custom rules used in this scan

Attack Surface

Attack Surface:

System Information:

 null.null.null

 null.null.getEngineStatus

 null.null.getScannerStatus

 null.null.lambda

 null.null.scanFinger

 java.lang.Throwable.getMessage

Filter Set Summary

Current Enabled Filter Set:

Quick View

Filter Set Details:

Folder Filters:

If [fortify priority order] contains critical Then set folder to Critical

If [fortify priority order] contains high Then set folder to High

If [fortify priority order] contains medium Then set folder to Medium

If [fortify priority order] contains low Then set folder to Low

Visibility Filters:

If impact is not in range [2.5, 5.0] Then hide issue

If likelihood is not in range (1.0, 5.0] Then hide issue

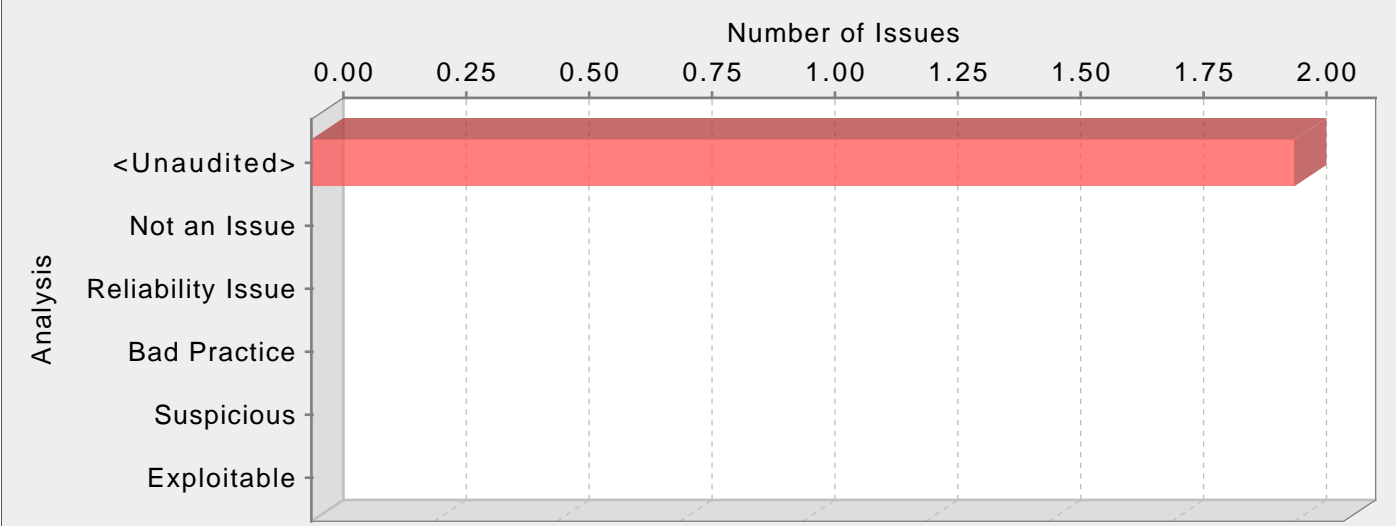## Audit Guide Summary

Audit guide not enabled

Fortify Security Report

Results Outline

Overall number of results

The scan found 2 issues.

Vulnerability Examples by Category

Category: Log Forging (2 Issues)

Abstract:

The method buildObs() in RegisterPatientFragmentController.java writes unvalidated user input to the log on line 333. An attacker could take advantage of this behavior to forge log entries or inject malicious content into the log.

Explanation:

Log forging vulnerabilities occur when:

1. Data enters an application from an untrusted source.

2. The data is written to an application or system log file.

Applications typically use log files to store a history of events or transactions for later review, statistics gathering, or debugging. Depending on the nature of the application, the task of reviewing log files may be performed manually on an as-needed basis or automated with a tool that automatically culls logs for important events or trending information.

Interpretation of the log files may be hindered or misdirected if an attacker can supply data to the application that is subsequently logged verbatim. In the most benign case, an attacker may be able to insert false entries into the log file by providing the application with input that includes appropriate characters. If the log file is processed automatically, the attacker may be able to render the file unusable by corrupting the format of the file or injecting unexpected characters. A more subtle attack might involve skewing the log file statistics. Forged or otherwise, corrupted log files can be used to cover an attacker's tracks or even to implicate another party in the commission of a malicious act [1]. In the worst case, an attacker may inject code or other commands into the log file and take advantage of a vulnerability in the log processing utility [2].

Example 1: The following web application code attempts to read an integer value from a request object. If the value fails to parse as an integer, then the input is logged with an error message indicating what happened.

```
...
String val = request.getParameter("val");
try {
int value = Integer.parseInt(val);
}
catch (NumberFormatException nfe) {
log.info("Failed to parse val = " + val);
}
...
```

If a user submits the string "twenty-one" for val, the following entry is logged:

INFO: Failed to parse val=twenty-one

However, if an attacker submits the string "twenty-one%0a%0aINFO:+User+logged+out%3dbadguy", the following entry is logged:

INFO: Failed to parse val=twenty-one

INFO: User logged out=badguy

Clearly, attackers may use this same mechanism to insert arbitrary log entries.

Some think that in the mobile world, classic web application vulnerabilities, such as log forging, do not make sense -- why would the user attack themself? However, keep in mind that the essence of mobile platforms is applications that are downloaded from various sources and run alongside each other on the same device. The likelihood of running a piece of malware next to a banking application is high, which necessitates expanding the attack surface of mobile applications to include inter-process communication.

Example 2: The following code adapts Example 1 to the Android platform.

```
...
String val = this.getIntent().getExtras().getString("val");
try {
int value = Integer.parseInt();
}
catch (NumberFormatException nfe) {
Log.e(TAG, "Failed to parse val = " + val);
}
...
```

Recommendations:

Prevent log forging attacks with indirection: create a set of legitimate log entries that correspond to different events that must be logged and only log entries from this set. To capture dynamic content, such as users logging out of the system, always use server-controlled values rather than user-supplied data. This ensures that the input provided by the user is never used directly in a log entry.

Example 1 can be rewritten to use a pre-defined log entry that corresponds to a NumberFormatException as follows:

```
...
public static final String NFE = "Failed to parse val. The input is required to be an integer value."
...
String val = request.getParameter("val");
try {
int value = Integer.parseInt(val);
}
catch (NumberFormatException nfe) {
log.info(NFE);
}
..
```

And here is an Android equivalent:

```
...
public static final String NFE = "Failed to parse val. The input is required to be an integer value."
...
String val = this.getIntent().getExtras().getString("val");
try {
int value = Integer.parseInt();
}
catch (NumberFormatException nfe) {
Log.e(TAG, NFE);
}
...
```

In some situations this approach is impractical because the set of legitimate log entries is too large or complicated. In these situations, developers often fall back on blacklisting. Blacklisting selectively rejects or escapes potentially dangerous characters before using the input. However, a list of unsafe characters can quickly become incomplete or outdated. A better approach is to create a whitelist of characters that are allowed to appear in log entries and accept input composed exclusively of characters in the approved set. The most critical character in most log forging attacks is the '\n' (newline) character, which should never appear on a log entry whitelist.

Tips:

1. Many logging operations are created only for the purpose of debugging a program during development and testing. In our experience, debugging will be enabled, either accidentally or purposefully, in production at some point. Do not excuse log forging vulnerabilities simply because a programmer says "I don't have any plans to turn that on in production".

2. A number of modern web frameworks provide mechanisms to perform user input validation (including Struts and Spring MVC). To highlight the unvalidated sources of input, the Fortify Secure Coding Rulepacks dynamically re-prioritize the issues reported by Fortify Static Code Analyzer by lowering their probability of exploit and providing pointers to the supporting evidence whenever the framework validation mechanism is in use. We refer to this feature as Context-Sensitive Ranking. To further assist the Fortify user with the auditing process, the Fortify Software Security Research group makes available the Data Validation project template that groups the issues into folders based on the validation mechanism applied to their source of input.

RegisterPatientFragmentController.java, line 333 (Log Forging)

Fortify Priority:	High	Folder	High
Kingdom:	Input Validation and Representation		

Abstract:	The method buildObs() in RegisterPatientFragmentController.java writes unvalidated user input to the log on line 333. An attacker could take advantage of this behavior to forge log entries or inject malicious content into the log.

Source:	RegisterPatientFragmentController.java:215 javax.servlet.ServletRequest.getParameterValues()

```
213            String param = e.nextElement();
214            if (param.startsWith("obsgroup.")) {
215                parseObsGroup(obsGroupMap, param, request.getParameterValues(param));
216
217            } else if (param.startsWith("obs.")) {
```

Sink:	RegisterPatientFragmentController.java:333 org.apache.commons.logging.Log.error()

```
331                Concept valueCoded =
RegistrationAppUtils.getConcept(parameterValue, conceptService);
332                if (valueCoded == null) {
333                    log.error("Submitted a coded obs whose value we can't
interpret: " + parameterValue);
334                }
335                obs.setValueCoded(valueCoded);
```

Detailed Project Summary
Files Scanned

Code base location:

Files Scanned:

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/IO.rb ruby 1 Lines 2.9 KB Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/argf.rb ruby 1 Lines 1.6 KB Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/argumentError.rb ruby 1 Lines Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/array.rb ruby 1 Lines 2.4 KB Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/bignum.rb ruby 1 Lines Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/comparable.rb ruby 1 Lines Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/dir.rb ruby 1 Lines Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/encoding.rb ruby 1 Lines Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/enumerable.rb ruby 1 Lines 1.2 KB Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/env.rb ruby 1 Lines 1.2 KB Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/exception.rb ruby 1 Lines Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/file.rb ruby 1 Lines 2.7 KB Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/hash.rb ruby 1 Lines 1.3 KB Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/kernel.rb ruby 63 Lines 4.5 KB Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/marshal.rb ruby 1 Lines Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/process.rb ruby 1 Lines 1.7 KB Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/random.rb ruby 1 Lines Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/string.rb ruby 1 Lines 1.9 KB Apr 26, 2019 10:42:41 AM

opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/ruby/1.9/symbol.rb ruby 1 Lines Apr 26, 2019 10:42:41 AM

srv/openmrs_code/org/openmrs/module/registrationapp/.travis.yml yaml Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/pom.xml xml   Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/AddressSupportCompatibility.java java 1 Lines Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/NameSupportCompatibility.java java 1 Lines Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/RegistrationAppActivator.java java 8 Lines 2.8 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/RegistrationAppConstants.java java 2 Lines Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/RegistrationAppUtils.java java 28 Lines 3.9 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/action/AfterPatientCreatedAction.java java   Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/converter/StringToPersonAddressConverter.java java 3 Lines 1 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/model/DropdownWidget.java java 23 Lines 2.4 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/model/Field.java java 15 Lines 1.7 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/model/FingerprintWidget.java java 24 Lines 2.9 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/model/NavigableFormStructure.java java 15 Lines 1.3 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/model/PersonAddressWithHierarchyWidget.java java 18 Lines 2.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/model/Question.ja

va java 29 Lines 2.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/model/Registration AppConfig.java java 36 Lines 5.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/model/Section.java java 23 Lines 1.8 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/model/TextAreaW idget.java java 7 Lines Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/model/TextFieldW idget.java java 7 Lines Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/java/org/openmrs/module/registrationapp/model/Widget.java java 8 Lines Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages.properties java_properties 7 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_ar.properties java_properties 7.8 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_de.properties java_properties 7.5 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_el.properties java_properties 7.3 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_es.properties java_properties 7.5 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_fa.properties java_properties 7.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_fr.properties java_properties 7.6 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_hi.properties java_properties 7.6 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_ht.properties java_properties 7 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_hy.properties java_properties 7.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_id_ID.properties java_properties 7.1 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_it.properties java_properties 7.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_ku.properties java_properties 7.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_lt.properties java_properties 7.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_pl.properties java_properties 7.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_pt.properties java_properties 7.4 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_ru.properties java_properties 8.8 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_si.properties java_properties 7.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_sw.properties java_properties 7.1 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/messages_te.properties java_properties 7.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/main/resources/moduleApplicationContext.xml xml Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/test/java/org/openmrs/module/registrationapp/RegistrationAppActivatorComponentTest.java java 2 Lines Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/test/java/org/openmrs/module/registrationapp/RegistrationAppUtilsComponentTest.java java 39 Lines 6.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/test/java/org/openmrs/module/registrationapp/model/DropdownWidgetTest.java java 14 Lines 1.4 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/test/java/org/openmrs/module/registrationapp/model/PersonAddressWithHierarchyWidgetTest.java java 9 Lines 1.1 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/test/java/org/openmrs/module/registrationapp/model/RegistrationAppConfigTest.java java 12 Lines 1.4 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/test/java/org/openmrs/module/registrationapp/model/SectionTest.java java 14 Lines 1.6 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/test/java/org/openmrs/module/registrationapp/model/TextAreaWidgetTest.java java 5 Lines Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/test/java/org/openmrs/module/registrationapp/model/TextFieldWidgetTest.java java 5 Lines Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/test/resources/TestingApplicationContext.xml xml 1.3 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/test/resources/dropdown.json json Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/test/resources/personAddressWithHierarchy.json json Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/test/resources/registrationAppConfig.json json Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/test/resources/section.json json Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/test/resources/test-hibernate.cfg.xml xml Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/api/src/test/resources/textArea.json json Dec 13, 2019 12:56:25 PM

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srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages.properties java_properties 6.9 KB Dec 18, 2019 11:41:54 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_ar.properties java_properties 7.8 KB Dec 18, 2019 11:41:54 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_de.properties java_properties 7.5 KB Dec 18, 2019 11:41:53 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_el.properties java_properties 7.2 KB Dec 18, 2019 11:41:54 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_es.properties java_properties 7.5 KB Dec 18, 2019 11:41:53 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_fa.properties java_properties 7.2 KB Dec 18, 2019 11:41:53 AM

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srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_hi.properties java_properties 7.6 KB Dec 18, 2019 11:41:53 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_ht.properties java_properties 7 KB Dec 18, 2019 11:41:53 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_hy.properties java_properties 7.2 KB Dec 18, 2019 11:41:53 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_id_ID.properties java_properties 7.1 KB Dec

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srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_it.properties java_properties 7.2 KB Dec 18, 2019 11:41:53 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_ku.properties java_properties 7.2 KB Dec 18, 2019 11:41:53 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_lt.properties java_properties 7.2 KB Dec 18, 2019 11:41:53 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_pl.properties java_properties 7.2 KB Dec 18, 2019 11:41:53 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_pt.properties java_properties 7.4 KB Dec 18, 2019 11:41:53 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_ru.properties java_properties 8.8 KB Dec 18, 2019 11:41:53 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_si.properties java_properties 7.2 KB Dec 18, 2019 11:41:53 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_sw.properties java_properties 7.1 KB Dec 18, 2019 11:41:53 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/messages_te.properties java_properties 7.2 KB Dec 18, 2019 11:41:53 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/classes/moduleApplicationContext.xml xml Dec 18, 2019 11:41:53 AM

srv/openmrs_code/org/openmrs/module/registrationapp/api/target/maven-archiver/pom.properties java_properties Dec 18, 2019 11:42:10 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/pom.xml xml 8.7 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/compass/config.rb ruby 283 Lines Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/java/org/openmrs/module/registrationapp/RegistrationAppUiUtils.java java 18 Lines 5.6 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/java/org/openmrs/module/registrationapp/form/RegisterPatientFormBuilder.java java 90 Lines 12.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/java/org/openmrs/module/registrationapp/fragment/controller/MatchingPatientsFragmentController.java java 80 Lines 13.7 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/java/org/openmrs/module/registrationapp/fragment/controller/PersonNameFragmentController.java java 6 Lines 1.6 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/java/org/openmrs/module/registrationapp/fragment/controller/RegisterPatientFragmentController.java java 130 Lines 22.1 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/java/org/openmrs/module/registrationapp/fragment/controller/biometrics/BiometricsFragmentController.java java 15 Lines 2.4 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/java/org/openmrs/module/registrationapp/fragment/controller/field/PersonAddressWithHierarchyFragmentController.java java 15 Lines 2.7 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/java/org/openmrs/module/registrationapp/fragment/controller/summary/BiometricsSummaryFragmentController.java java 21 Lines 4.7 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/java/org/openmrs/module/registrationapp/fragment/controller/summary/RegistrationSummaryFragmentController.java java 15 Lines 3.3 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/java/org/openmrs/module/registrationapp/fragment/controller/summary/SectionFragmentController.java java 10 Lines 2.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/java/org/openmrs/module/registrationapp/page/controller/AbstractRegistrationAppPageController.java java 7 Lines 1.1 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/java/org/openmrs/module/registrationapp/page/controller/EditSectionPageController.java java 47 Lines 11.1 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/java/org/openmrs/module/registrationapp/page/controller/

FindPatientPageController.java java 36 Lines 8.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/java/org/openmrs/module/registrationapp/page/controller/ RegisterPatientPageController.java java 15 Lines 4.4 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/java/org/openmrs/module/registrationapp/page/controller/ RegistrationSummaryPageController.java java 11 Lines 4 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/java/org/openmrs/module/registrationapp/page/controller/ biometrics/EditBiometricsPageController.java java 16 Lines 4.1 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/resources/apps/editPatientContactInfo_extension.json json Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/resources/apps/editPatientDemographics_extension.json json Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/resources/apps/registrationappAppTemplates.json json 2.1 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/resources/apps/registrationapp_app.json json Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/resources/config.xml xml 4.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/resources/webModuleApplicationContext.xml xml Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/webapp/resources/scripts/biometrics/fingerprintSearchCon troller.js typescript 53 Lines 5.4 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/webapp/resources/scripts/biometrics/fingerprintService.js typescript 49 Lines 3.9 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/webapp/resources/scripts/field/fingerprint.js typescript 70 Lines 6.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/webapp/resources/scripts/field/personAddressWithHierarc hy.js typescript 147 Lines 11.5 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/webapp/resources/scripts/field/personRelationship.js typescript 22 Lines 2.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/main/webapp/resources/scripts/registerPatient.js typescript 186 Lines 13.9 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/test/java/org/openmrs/module/registrationapp/RegistrationApp UiUtilsTest.java java 93 Lines 6.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/test/java/org/openmrs/module/registrationapp/form/RegisterPati entFormBuilderTest.java java 7 Lines 1.8 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/test/java/org/openmrs/module/registrationapp/fragment/controll er/RegisterPatientFragmentControllerTest.java java 87 Lines 16 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/test/java/org/openmrs/module/registrationapp/page/controller/E ditSectionPageControllerComponentTest.java java 28 Lines 5.9 KB Dec 13, 2019 12:56:25 PM

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srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/test/resources/TestingApplicationContext.xml xml Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/src/test/resources/test-hibernate.cfg.xml xml Dec 13, 2019 12:56:25 PM

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srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/classes/META-INF/maven/org.openmrs.module.registrationapp-api/pom.properties java_properties Dec 18, 2019 11:42:10 AM

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srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/classes/apps/editPatientContactInfo_extension.json json Dec 18, 2019 11:53:08 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/classes/apps/editPatientDemographics_extension.json json Dec 18, 2019 11:53:08 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/classes/apps/registrationappAppTemplates.json json 2.1 KB Dec 18, 2019 11:53:08 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/classes/apps/registrationapp_app.json json   Dec 18, 2019 11:53:08 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/classes/config.xml xml 3.9 KB Dec 18, 2019 11:53:08 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/classes/messages.properties java_properties 6.9 KB Dec 18, 2019 11:41:54 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/classes/messages_ar.properties java_properties 7.8 KB Dec 18, 2019 11:41:54 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/classes/messages_de.properties java_properties 7.5 KB Dec 18, 2019 11:41:54 AM

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srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/classes/web/module/resources/scripts/biometrics/fingerprintSearchController.js typescript 53 Lines 5.4 KB Dec 18, 2019 11:53:08 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/classes/web/module/resources/scripts/biometrics/fingerprintService.js typescript 49 Lines 3.9 KB Dec 18, 2019 11:53:08 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/classes/web/module/resources/scripts/field/fingerprint.js typescript 70 Lines 6.2 KB Dec 18, 2019 11:53:08 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/classes/web/module/resources/scripts/field/personAddressWithHierarchy.js typescript 147 Lines 11.5 KB Dec 18, 2019 11:53:08 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/classes/web/module/resources/scripts/field/personRelationship.js typescript 22 Lines 2.2 KB Dec 18, 2019 11:53:08 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/classes/web/module/resources/scripts/registerPatient.js typescript 186 Lines 13.9 KB Dec 18, 2019 11:53:08 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/classes/webModuleApplicationContext.xml xml   Dec 18, 2019 11:53:08 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/maven-archiver/pom.properties java_properties   Dec 18, 2019 11:53:30 AM

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srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/registrationapp-1.13.0/META-INF/maven/org.openmrs.module.registrationapp-api/pom.xml xml   Dec 18, 2019 11:53:35 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/registrationapp-1.13.0/apps/editPatientContactInfo_extension.json json   Dec 18, 2019 11:53:35 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/registrationapp-1.13.0/apps/editPatientDemographics_extension.json json   Dec 18, 2019 11:53:35 AM

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srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/registrationapp-1.13.0/messages_fa.properties java_properties 7.2 KB Dec 18, 2019 11:53:35 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/registrationapp-1.13.0/messages_fr.properties java_properties 7.6 KB Dec 18, 2019 11:53:35 AM

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srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/registrationapp-1.13.0/messages_hy.properties java_properties 7.2 KB Dec 18, 2019 11:53:35 AM

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srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/registrationapp-1.13.0/messages_pl.properties java_properties 7.2 KB Dec 18, 2019 11:53:35 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/registrationapp-1.13.0/messages_pt.properties java_properties 7.4 KB Dec 18, 2019 11:53:35 AM

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srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/registrationapp-1.13.0/web/module/resources/scripts/biometrics/fingerprintSearchController.js typescript 53 Lines 5.4 KB Dec 18, 2019 11:53:35 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/registrationapp-1.13.0/web/module/resources/scripts/biometrics/fingerprintService.js typescript 49 Lines 3.9 KB Dec 18, 2019 11:53:35 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/registrationapp-1.13.0/web/module/resources/scripts/field/fingerprint.js typescript 70 Lines 6.2 KB Dec 18, 2019 11:53:35 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/registrationapp-1.13.0/web/module/resources/scripts/field/personAddressWithHierarchy.js typescript 147 Lines 11.5 KB Dec 18, 2019 11:53:35 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/registrationapp-1.13.0/web/module/resources/scripts/field/personRelationship.js typescript 22 Lines 2.2 KB Dec 18, 2019 11:53:35 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/registrationapp-1.13.0/web/module/resources/scripts/registerPatient.js typescript 186 Lines 13.9 KB Dec 18, 2019 11:53:35 AM

srv/openmrs_code/org/openmrs/module/registrationapp/omod/target/registrationapp-1.13.0/webModuleApplicationContext.xml xml Dec 18, 2019 11:53:35 AM

srv/openmrs_code/org/openmrs/module/registrationapp/pom.xml xml 13.3 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/tools/src/main/resources/eclipse/OpenMRSFormatter.xml xml 27.9 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/web-1.9/pom.xml xml 2.6 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/web-1.9/src/main/java/org/openmrs/module/registrationapp/AddressSupportCompatibility1_9.java java 4 Lines 1.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/web-1.9/src/main/java/org/openmrs/module/registrationapp/NameSupportCompatibility1_9.java java 2 Lines Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/web-1.9/target/maven-archiver/pom.properties java_properties Dec 18, 2019 11:42:23 AM

srv/openmrs_code/org/openmrs/module/registrationapp/web-2.0/pom.xml xml 2.6 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/web-2.0/src/main/java/org/openmrs/module/registrationapp/AddressSupportCompatibility2_0.java java 4 Lines 1.2 KB Dec 13, 2019 12:56:25 PM

srv/openmrs_code/org/openmrs/module/registrationapp/web-
2.0/src/main/java/org/openmrs/module/registrationapp/NameSupportCompatibility2_0.java java 2 Lines Dec 13, 2019 12:56:25 PM
srv/openmrs_code/org/openmrs/module/registrationapp/web-2.0/target/maven-archiver/pom.properties java_properties Dec 18, 2019 11:43:42 AM

Reference Elements

Classpath:

No classpath specified during translation

Libdirs:

No libdirs specified during translation

Rulepacks

Valid Rulepacks:

Name: Fortify Secure Coding Rules, Core, Java
Version: 2019.4.0.0009
ID: 06A6CC97-8C3F-4E73-9093-3E74C64A2AAF
SKU: RUL13003

Name: Fortify Secure Coding Rules, Core, Ruby
Version: 2019.4.0.0009
ID: CA8013D5-11DE-44EF-9563-182F9FCB87BC
SKU: RUL13135

Name: Fortify Secure Coding Rules, Core, Annotations
Version: 2019.4.0.0009
ID: 14EE50EB-FA1C-4AE8-8B59-39F952E21E3B
SKU: RUL13078

Name: Fortify Secure Coding Rules, Core, JavaScript
Version: 2019.4.0.0009
ID: BD292C4E-4216-4DB8-96C7-9B607BFD9584
SKU: RUL13059

Name: Fortify Secure Coding Rules, Core, Android
Version: 2019.4.0.0009
ID: FF9890E6-D119-4EE8-A591-83DCF4CA6952
SKU: RUL13093

Name: Fortify Secure Coding Rules, Extended, JavaScript
Version: 2019.4.0.0009
ID: C4D1969E-B734-47D3-87D4-73962C1D32E2
SKU: RUL13141

Name: Fortify Secure Coding Rules, Extended, Configuration
Version: 2019.4.0.0009
ID: CD6959FC-0C37-45BE-9637-BAA43C3A4D56

SKU: RUL13005

Name: Fortify Secure Coding Rules, Extended, Java
Version: 2019.4.0.0009
ID: AAAC0B10-79E7-4FE5-9921-F4903A79D317
SKU: RUL13007

Name: Fortify Secure Coding Rules, Extended, Content
Version: 2019.4.0.0009
ID: 9C48678C-09B6-474D-B86D-97EE94D38F17
SKU: RUL13067

Name: Fortify Secure Coding Rules, Core, Golang
Version: 2019.4.0.0009
ID: 1DCE79F8-AF6B-474D-A05A-5BFFC8B13DCD
SKU: RUL13218

Name: Fortify Secure Coding Rules, Extended, JSP
Version: 2019.4.0.0009
ID: 00403342-15D0-48C9-8E67-4B1CFBDEFCD2
SKU: RUL13026

External Metadata:
Version: 2019.4.0.0009

Name: CWE
ID: 3ADB9EE4-5761-4289-8BD3-CBFCC593EBBC
The Common Weakness Enumeration (CWE), co-sponsored and maintained by MITRE, is international in scope and free for public use. CWE provides a unified, measurable set of software weaknesses that is enabling more effective discussion, description, selection, and use of software security tools and services that can find these weaknesses in source code and operational systems as well as better understanding and management of software weaknesses related to architecture and design.

Name: CWE Top 25 2019
ID: 7AF935C9-15AA-45B2-8EEC-0EAE4194ACDE
The 2019 CWE Top 25 Most Dangerous Software Errors lists the most widespread and critical weaknesses that can lead to serious vulnerabilities in software (as demonstrated by the National Vulnerability Database). These weaknesses occur frequently, are often easy to find, and easy to exploit. They are dangerous because they will frequently enable attackers to completely take over the software, steal data, or prevent the software from working at all. The list is the result of heuristic formula that the CWE Team used with a data-driven approach that leveraged the Common Vulnerabilities and Exposure (CVE), National Vulnerability Database (NVD), and Common Vulnerability Scoring System (CVSS). Due to the hiearchical nature of the CWE taxonomy, Fortify considers all CWE IDs which are children of a Top 25 entry, as included within the context of the entry due to the "CHILD-OF" relationship within the hierarchy. Exercise caution if using only this Top 25 list to prioritize auditing efforts because the software under analysis might not align with the assumptions of the heuristic used to define the Top 25. For example, many of these weaknesses are related to C-like langauges and the software under analysis might not be within the C-family of languages - thus, many CWEs would not be in scope.

Name: DISA CCI 2
ID: 7F037130-41E5-40F0-B653-7819A4B3E241
The purpose of a Defense Information Systems Agency (DISA) Control Correlation Identifier (CCI) is to provide a standard identifier for policy based requirements which connect high-level policy expressions and low-level technical implementations. Associated with each CCI is a description for each of the singular, actionable, statements compromising an information assurance

(IA) control or IA best practice. Using CCI allows high-level policy framework security requirements to be decomposed and explicitly associated with low-level implementations, thus enabling the assessment of related compliance assessment results spanning heterogeneous technologies. The current IA controls and best practices associated with each CCI, that are specified in NIST SP 800-53 Revision 4, can be viewed using the DISA STIG Viewer.

The following table summarizes the number of issues identified across the different CCIs broken down by Fortify Priority Order. The status of a CCI is considered "In Place" when there are no issues reported for a given CCI.

If the project is missing a Fortify Static Code Analyzer (SCA) scan, or the scan contains findings that have not been fixed, hidden or suppressed, CCI-003187 is not considered "In Place". Similarly, if the project is missing a Micro Focus Fortify WebInspect scan, or the scan contains any critical findings, CCI-000366 and CCI-000256 are not considered "In Place".

Name: FISMA
ID: B40F9EE0-3824-4879-B9FE-7A789C89307C
The Federal Information Processing Standard (FIPS) 200 document is part of the official series of publications, issued by the National Institute of Standards and Technology (NIST), relating to standards and guidelines adopted and promulgated under the provisions of the Federal Information Security Management Act (FISMA). Specifically, FIPS Publication 200 specifies the "Minimum Security Requirements for Federal Information and Information Systems."

Name: GDPR
ID: 771C470C-9274-4580-8556-C12F5E4BEC51
The EU General Data Protection Regulation (GDPR) replaces the Data Protection Directive 95/46/EC and was designed to harmonize data privacy laws across Europe, to protect and empower all EU citizens data privacy and to reshape the way organizations across the region approach data privacy. Going into effect on May 25, 2018, GDPR provides a framework for organizations on how to handle personal data.   According to GDPR regulation personal data "means any information relating to an identified or identifiable natural person ('data subject'); an identifiable natural person is one who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person."   GDPR articles that pertain to application security and require businesses to protect personal data during design and development of its product and services are:

  - Article 25, Data protection by design and by default - which requires "The controller shall implement appropriate technical and organisational measures for ensuring that, by default, only personal data which are necessary for each specific purpose of the processing are processed."
  - Article 32, Security of processing - which requires businesses to protect its systems and applications "from accidental or unlawful destruction, loss, alteration, unauthorized disclosure of, or access to personal data".   This report may be used by organizations as a framework to help identify and protect personal data as it relates to application security.

Name: MISRA C 2012
ID: 555A3A66-A0E1-47AF-910C-3F19A6FB2506
Now in its third edition, the Motor Industry Software Reliability Association (MISRA) C Guidelines describe a subset of the C programming language in which there is reduced risk of introducing mistakes in critical systems. While the MISRA C Guidelines focus upon safety-related software development, a subset of the rules also reflect security properties. Fortify interprets the MISRA C Guidelines under the context of security and provides correlation of security vulnerability categories to the rules defined by MISRA. Fortify provides these security focused detection mechanism with the standard rulepacks, however, further support of the MISRA C Guidelines related to safety can be added through the use of custom rules. The results in this report can assist in the creation of a compliance matrix for MISRA.

Name: MISRA C++ 2008
ID: 5D4B75A1-FC91-4B4B-BD4D-C81BBE9604FA
The Motor Industry Software Reliability Association (MISRA) C++ Guidelines describe a subset of the C++ programming language in which there is reduced risk of introducing mistakes in critical systems. While the MISRA C++ Guidelines focus upon

safety-related software development, a subset of the rules also reflect security properties. Fortify interprets the MISRA C++ Guidelines under the context of security and provides correlation of security vulnerability categories to the rules defined by MISRA. Fortify provides these security focused detection mechanism with the standard rulepacks, however, further support of the MISRA C++ Guidelines related to safety can be added through the use of custom rules. The results in this report can assist in the creation of a compliance matrix for MISRA.

Name: NIST SP 800-53 Rev.4

ID: 1114583B-EA24-45BE-B7F8-B61201BACDD0

NIST Special Publication 800-53 Revision 4 provides a list of security and privacy controls designed to protect federal organizations and information systems from security threats. The following table summarizes the number of issues identified across the different controls and broken down by Fortify Priority Order.

Name: OWASP Mobile 2014

ID: EEE3F9E7-28D6-4456-8761-3DA56C36F4EE

The OWASP Mobile Top 10 Risks 2014 provides a powerful awareness document for mobile application security. The OWASP Mobile Top 10 represents a broad consensus about what the most critical mobile application security flaws are. Project members include a variety of security experts from around the world who have shared their expertise to produce this list.

Name: OWASP Top 10 2004

ID: 771C470C-9274-4580-8556-C023E4D3ADB4

The OWASP Top Ten 2004 provides a powerful awareness document for web application security. The OWASP Top Ten represents a broad consensus about what the most critical web application security flaws are. Project members include a variety of security experts from around the world who have shared their expertise to produce this list.

Name: OWASP Top 10 2007

ID: 1EB1EC0E-74E6-49A0-BCE5-E6603802987A

The OWASP Top Ten 2007 provides a powerful awareness document for web application security. The OWASP Top Ten represents a broad consensus about what the most critical web application security flaws are. Project members include a variety of security experts from around the world who have shared their expertise to produce this list.

Name: OWASP Top 10 2010

ID: FDCECA5E-C2A8-4BE8-BB26-76A8ECD0ED59

The OWASP Top Ten 2010 provides a powerful awareness document for web application security. The OWASP Top Ten represents a broad consensus about what the most critical web application security flaws are. Project members include a variety of security experts from around the world who have shared their expertise to produce this list.

Name: OWASP Top 10 2013

ID: 1A2B4C7E-93B0-4502-878A-9BE40D2A25C4

The OWASP Top Ten 2013 provides a powerful awareness document for web application security. The OWASP Top Ten represents a broad consensus about what the most critical web application security flaws are. Project members include a variety of security experts from around the world who have shared their expertise to produce this list.

Name: OWASP Top 10 2017

ID: 3C6ECB67-BBD9-4259-A8DB-B49328927248

The OWASP Top Ten 2017 provides a powerful awareness document for web application security focused on informing the community about the consequences of the most common and most important web application security weaknesses. The OWASP Top Ten represents a broad agreement about what the most critical web application security flaws are with consensus being drawn from data collection and survey results. Project members include a variety of security experts from around the world who have shared their expertise to produce this list.

Name: PCI 1.1

ID: CBDB9D4D-FC20-4C04-AD58-575901CAB531

The Payment Card Industry (PCI) Data Security Standard (DSS) 1.1 compliance standard describes 12 requirements which are organized into 6 logically related groups, which are "control objectives". PCI DSS requirements are applicable if Primary Account Number (PAN) is stored, processed, or transmitted by the system.

Name: PCI 1.2

ID: 57940BDB-99F0-48BF-BF2E-CFC42BA035E5

Payment Card Industry Data Security Standard Version 1.2 description

Name: PCI 2.0

ID: 8970556D-7F9F-4EA7-8033-9DF39D68FF3E

The PCI DSS 2.0 compliance standard, particularly sections 6.3, 6.5, and 6.6, references the OWASP Top 10 vulnerability categories as the core categories that must be tested for and remediated. The following table summarizes the number of issues identified across the different PCI DSS requirements and broken down by Fortify Priority Order.

Name: PCI 3.0

ID: E2FB0D38-0192-4F03-8E01-FE2A12680CA3

The following is a summary of the application security portions of Payment Card Industry (PCI) Data Security Standard (DSS) v3.0. Fortify tests for 32 application security related requirements across sections 1, 2, 3, 4, 6, 7, 8, and 10 of PCI DSS and reports whether each requirement is In Place or Not In Place to indicate whether requirements are satisfied or not. This report is intended to measure the level of adherence the specific application(s) possess when compared to PCI DSS 3.0 compliance and is not intended to serve as a comprehensive Report on Compliance (ROC). The information contained in this report is targeted at project managers, security auditors, and compliance auditors.

Name: PCI 3.1

ID: AC0D18CF-C1DA-47CF-9F1A-E8EC0A4A717E

The following is a summary of the application security portions of Payment Card Industry (PCI) Data Security Standard (DSS) v3.1. Fortify tests for 31 application security related requirements across sections 1, 2, 3, 4, 6, 7, 8, and 10 of PCI DSS and reports whether each requirement is In Place or Not In Place to indicate whether requirements are satisfied or not. This report is intended to measure the level of adherence the specific application(s) possess when compared to PCI DSS 3.1 compliance and is not intended to serve as a comprehensive Report on Compliance (ROC). The information contained in this report is targeted at project managers, security auditors, and compliance auditors.

Name: PCI 3.2

ID: 4E8431F9-1BA1-41A8-BDBD-087D5826751A

The following is a summary of the application security portions of Payment Card Industry (PCI) Data Security Standard (DSS) v3.2. Fortify tests for 31 application security related requirements across sections 1, 2, 3, 4, 6, 7, 8, and 10 of PCI DSS and reports whether each requirement is In Place or Not In Place to indicate whether requirements are satisfied or not. This report is intended to measure the level of adherence the specific application(s) possess when compared to PCI DSS 3.2 compliance and is not intended to serve as a comprehensive Report on Compliance (ROC). The information contained in this report is targeted at project managers, security auditors, and compliance auditors.

Name: PCI 3.2.1

ID: EADE255F-6561-4EFE-AD31-2914F6BFA329

The following is a summary of the application security portions of Payment Card Industry (PCI) Data Security Standard (DSS) v3.2.1. Fortify tests for 31 application security related requirements across sections 1, 2, 3, 4, 6, 7, 8, and 10 of PCI DSS and reports whether each requirement is In Place or Not In Place to indicate whether requirements are satisfied or not. This report is intended to measure the level of adherence the specific application(s) possess when compared to PCI DSS 3.2.1 compliance and is not intended to serve as a comprehensive Report on Compliance (ROC). The information contained in this report is targeted at project managers, security auditors, and compliance auditors.

Name: PCI SSF 1.0

ID: 0F551543-AF0E-4334-BEDF-1DDCD5F4BF74

The following is a summary of the application security portions of the Secure Software Requirements and Assessment Procedures defined in the Payment Card Industry (PCI) Software Security Framework (SSF) v1.0. Fortify tests for 23 application security related control objectives across Control Objective sections 2, 3, 4, 5, 6, 7, 8, and A.2 of PCI SSF and reports whether each control objective is In Place or Not In Place to indicate whether requirements are satisfied or not. This report is intended to measure the level of adherence the specific application(s) possess when compared to PCI SSF 1.0 compliance and is not intended to serve as a comprehensive Report on Compliance (ROC). The information contained in this report is targeted at project managers, security auditors, and compliance auditors.

Name: SANS Top 25 2009

ID: 939EF193-507A-44E2-ABB7-C00B2168B6D8

The 2009 CWE/SANS Top 25 Programming Errors lists the most significant programming errors that can lead to serious software vulnerabilities. They occur frequently, are often easy to find, and easy to exploit. They are dangerous because they will frequently allow attackers to completely take over the software, steal data, or prevent the software from working at all. The list is the result of collaboration between the SANS Institute, MITRE, and many top software security experts.

Name: SANS Top 25 2010

ID: 72688795-4F7B-484C-88A6-D4757A6121CA

SANS Top 25 2010 Most Dangerous Software Errors provides an enumeration of the most widespread and critical errors, categorized by Common Weakness Enumeration (CWE) identifiers, that lead to serious vulnerabilities in software (http://cwe.mitre.org/). These software errors are often easy to find and exploit. The inherent danger in these errors is that they can allow an attacker to completely take over the software, steal data, or prevent the software from working at all.

Name: SANS Top 25 2011

ID: 92EB4481-1FD9-4165-8E16-F2DE6CB0BD63

SANS Top 25 2011 Most Dangerous Software Errors provides an enumeration of the most widespread and critical errors, categorized by Common Weakness Enumeration (CWE) identifiers, that lead to serious vulnerabilities in software (http://cwe.mitre.org/). These software errors are often easy to find and exploit. The inherent danger in these errors is that they can allow an attacker to completely take over the software, steal data, or prevent the software from working at all.

Name: STIG 3.1

ID: F2FA57EA-5AAA-4DDE-90A5-480BE65CE7E7

Security Technical Implementation Guide Version 3.1 description

Name: STIG 3.10

ID: 788A87FE-C9F9-4533-9095-0379A9B35B12

Each requirement or recommendation identified by the Defense Information Systems Agency (DISA) STIG is represented by a STIG identifier (STIGID), which corresponds to a checklist item and a severity code [APP<I>ID</I>: CAT <I>SEV</I>]. DISA STIG defines three severities with respect to vulnerabilities where their:

<LI>exploitation leads to direct and immediate loss of Confidentiality, Availability, or Integrity (CAT I).</LI>
<LI>exploitation potentially results in loss of Confidentiality, Availability, or Integrity (CAT II).</LI>
<LI>existence degrades protections against loss of Confidentiality, Availability, or Integrity (CAT III).</LI> </UL>

The following table summarizes the number of issues identified across the different STIGIDs broken down by Fortify Priority Order. The status of a STIGID is considered "In Place" when there are no issues reported for a given STIGID.

If the project is missing a Fortify Static Code Analyzer (SCA) scan, or the scan contains findings that have not been fixed, hidden or suppressed, STIGID APP5080: CAT II is not considered "In Place". Similarly, if the project is missing a Fortify WebInspect scan, or the scan contains any critical findings, STIGID APP5100: CAT II is not considered "In Place".

Name: STIG 3.4

ID: 58E2C21D-C70F-4314-8994-B859E24CF855

Each requirement or recommendation identified by the Defense Information Systems Agency (DISA) STIG is represented by a STIG identifier (STIGID), which corresponds to a checklist item and a severity code [APP<I>ID</I>: CAT <I>SEV</I>]. DISA STIG identifies several severities with respect to vulnerabilities:

<LI>CAT I: allow an attacker immediate access into a machine, allow super user access, or bypass a firewall.</LI>
<LI>CAT II: provide information that have a high potential of giving access to an intruder.</LI>
<LI>CAT III: provide information that potentially could lead to compromise.</LI> </UL>

The following table summarizes the number of issues identified across the different STIGIDs broken down by Fortify Priority Order. The status of a STIGID is considered "In Place" when there are no issues reported for a given STIGID.

Name: STIG 3.5

ID: DD18E81F-3507-41FA-9DFA-2A9A15B5479F

Each requirement or recommendation identified by the Defense Information Systems Agency (DISA) STIG is represented by a STIG identifier (STIGID), which corresponds to a checklist item and a severity code [APP<I>ID</I>: CAT <I>SEV</I>]. DISA STIG identifies several severities with respect to vulnerabilities:

<LI>CAT I: allow an attacker immediate access into a machine, allow super user access, or bypass a firewall.</LI>
<LI>CAT II: provide information that have a high potential of giving access to an intruder.</LI>
<LI>CAT III: provide information that potentially could lead to compromise.</LI> </UL>

The following table summarizes the number of issues identified across the different STIGIDs broken down by Fortify Priority Order. The status of a STIGID is considered "In Place" when there are no issues reported for a given STIGID.

Name: STIG 3.6

ID: 000CA760-0FED-4374-8AA2-6FA3968A07B1

Each requirement or recommendation identified by the Defense Information Systems Agency (DISA) STIG is represented by a STIG identifier (STIGID), which corresponds to a checklist item and a severity code [APP<I>ID</I>: CAT <I>SEV</I>]. DISA STIG identifies several severities with respect to vulnerabilities:

<LI>CAT I: allow an attacker immediate access into a machine, allow super user access, or bypass a firewall.</LI>
<LI>CAT II: provide information that have a high potential of giving access to an intruder.</LI>
<LI>CAT III: provide information that potentially could lead to compromise.</LI> </UL>

The following table summarizes the number of issues identified across the different STIGIDs broken down by Fortify Priority Order. The status of a STIGID is considered "In Place" when there are no issues reported for a given STIGID.

If the project is missing a Fortify Static Code Analyzer (SCA) scan, or the scan contains findings that have not been fixed, hidden or suppressed, STIGID APP5080: CAT II is not considered "In Place". Similarly, if the project is missing a Fortify WebInspect scan, or the scan contains any critical findings, STIGID APP5100: CAT II is not considered "In Place".

Name: STIG 3.7

ID: E69C07C0-81D8-4B04-9233-F3E74167C3D2

Each requirement or recommendation identified by the Defense Information Systems Agency (DISA) STIG is represented by a STIG identifier (STIGID), which corresponds to a checklist item and a severity code [APP<I>ID</I>: CAT <I>SEV</I>]. DISA STIG identifies several severities with respect to vulnerabilities:

<LI>CAT I: allow an attacker immediate access into a machine, allow super user access, or bypass a firewall.</LI>

<LI>CAT II: provide information that have a high potential of giving access to an intruder.</LI>

<LI>CAT III: provide information that potentially could lead to compromise.</LI> </UL>

The following table summarizes the number of issues identified across the different STIGIDs broken down by Fortify Priority Order. The status of a STIGID is considered "In Place" when there are no issues reported for a given STIGID.

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Name: STIG 3.9

ID: 1A9D736B-2D4A-49D1-88CA-DF464B40D732

Each requirement or recommendation identified by the Defense Information Systems Agency (DISA) STIG is represented by a STIG identifier (STIGID), which corresponds to a checklist item and a severity code [APP<I>ID</I>: CAT <I>SEV</I>]. DISA STIG defines three severities with respect to vulnerabilities where their:

<LI>exploitation leads to direct and immediate loss of Confidentiality, Availability, or Integrity (CAT I).</LI>

<LI>exploitation potentially results in loss of Confidentiality, Availability, or Integrity (CAT II).</LI>

<LI>existence degrades protections against loss of Confidentiality, Availability, or Integrity (CAT III).</LI> </UL>

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If the project is missing a Fortify Static Code Analyzer (SCA) scan, or the scan contains findings that have not been fixed, hidden or suppressed, STIGID APP5080: CAT II is not considered "In Place". Similarly, if the project is missing a Fortify WebInspect scan, or the scan contains any critical findings, STIGID APP5100: CAT II is not considered "In Place".

Name: STIG 4.1

ID: 95227C50-A9E4-4C9D-A8AF-FD98ABAE1F3C

Each requirement or recommendation identified by the Defense Information Systems Agency (DISA) STIG is represented by a STIG identifier (STIGID), which corresponds to a checklist item and a severity code [APSC-DV-<I>ID</I>: CAT <I>SEV</I>]. DISA STIG defines three severities with respect to vulnerabilities where their:

<LI>exploitation leads to direct and immediate loss of Confidentiality, Availability, or Integrity (CAT I).</LI>

<LI>exploitation potentially results in loss of Confidentiality, Availability, or Integrity (CAT II).</LI>

<LI>existence degrades protections against loss of Confidentiality, Availability, or Integrity (CAT III).</LI> </UL>

The following table summarizes the number of issues identified across the different STIGIDs broken down by Fortify Priority Order. The status of a STIGID is considered "In Place" when there are no issues reported for a given STIGID.

If the project is missing a Fortify Static Code Analyzer (SCA) scan, or the scan contains findings that have not been fixed, hidden or suppressed, STIGID APSC-DV-003170: CAT II is not considered "In Place". Similarly, if the project is missing a Fortify WebInspect scan, or the scan contains any critical findings, STIGID APSC-DV-001460: CAT II and STIGID APSC-DV-002930: CAT II are not considered "In Place".

Name: STIG 4.10

ID: EF1FF442-1673-4CF1-B7C4-920F1A96A8150

Each requirement or recommendation identified by the Defense Information Systems Agency (DISA) STIG is represented by a STIG identifier (STIGID), which corresponds to a checklist item and a severity code [APSC-DV-<I>ID</I>: CAT <I>SEV</I>]. DISA STIG defines three severities with respect to vulnerabilities where their:

<LI>exploitation leads to direct and immediate loss of Confidentiality, Availability, or Integrity (CAT I).</LI>

<LI>exploitation potentially results in loss of Confidentiality, Availability, or Integrity (CAT II).</LI>

<LI>existence degrades protections against loss of Confidentiality, Availability, or Integrity (CAT III).</LI> </UL>

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If the project is missing a Fortify Static Code Analyzer (SCA) scan, or the scan contains findings that have not been fixed, hidden or suppressed, STIGID APSC-DV-003170: CAT II is not considered "In Place". Similarly, if the project is missing a Fortify WebInspect scan, or the scan contains any critical findings, STIGID APSC-DV-001460: CAT II and STIGID APSC-DV-002930: CAT II are not considered "In Place".

Name: STIG 4.2
ID: 672C15F8-8822-4E05-8C9E-1A4BAAA7A373
Each requirement or recommendation identified by the Defense Information Systems Agency (DISA) STIG is represented by a STIG identifier (STIGID), which corresponds to a checklist item and a severity code [APSC-DV-<I>ID</I>: CAT <I>SEV</I>]. DISA STIG defines three severities with respect to vulnerabilities where their:

<LI>exploitation leads to direct and immediate loss of Confidentiality, Availability, or Integrity (CAT I).</LI>

<LI>exploitation potentially results in loss of Confidentiality, Availability, or Integrity (CAT II).</LI>

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If the project is missing a Fortify Static Code Analyzer (SCA) scan, or the scan contains findings that have not been fixed, hidden or suppressed, STIGID APSC-DV-003170: CAT II is not considered "In Place". Similarly, if the project is missing a Fortify WebInspect scan, or the scan contains any critical findings, STIGID APSC-DV-001460: CAT II and STIGID APSC-DV-002930: CAT II are not considered "In Place".

Name: STIG 4.3
ID: A0B313F0-29BD-430B-9E34-6D10F1178506
Each requirement or recommendation identified by the Defense Information Systems Agency (DISA) STIG is represented by a STIG identifier (STIGID), which corresponds to a checklist item and a severity code [APSC-DV-<I>ID</I>: CAT <I>SEV</I>]. DISA STIG defines three severities with respect to vulnerabilities where their:

<LI>exploitation leads to direct and immediate loss of Confidentiality, Availability, or Integrity (CAT I).</LI>

<LI>exploitation potentially results in loss of Confidentiality, Availability, or Integrity (CAT II).</LI>

<LI>existence degrades protections against loss of Confidentiality, Availability, or Integrity (CAT III).</LI> </UL>

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If the project is missing a Fortify Static Code Analyzer (SCA) scan, or the scan contains findings that have not been fixed, hidden or suppressed, STIGID APSC-DV-003170: CAT II is not considered "In Place". Similarly, if the project is missing a Fortify WebInspect scan, or the scan contains any critical findings, STIGID APSC-DV-001460: CAT II and STIGID APSC-DV-002930: CAT II are not considered "In Place".

Name: STIG 4.4
ID: ECEC5CA2-7ACA-4B70-BF44-3248B9C6F4F8
Each requirement or recommendation identified by the Defense Information Systems Agency (DISA) STIG is represented by a

STIG identifier (STIGID), which corresponds to a checklist item and a severity code [APSC-DV-<I>ID</I>: CAT <I>SEV</I>]. DISA STIG defines three severities with respect to vulnerabilities where their:

<LI>exploitation leads to direct and immediate loss of Confidentiality, Availability, or Integrity (CAT I).</LI>
<LI>exploitation potentially results in loss of Confidentiality, Availability, or Integrity (CAT II).</LI>
<LI>existence degrades protections against loss of Confidentiality, Availability, or Integrity (CAT III).</LI> </UL>

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If the project is missing a Fortify Static Code Analyzer (SCA) scan, or the scan contains findings that have not been fixed, hidden or suppressed, STIGID APSC-DV-003170: CAT II is not considered "In Place". Similarly, if the project is missing a Fortify WebInspect scan, or the scan contains any critical findings, STIGID APSC-DV-001460: CAT II and STIGID APSC-DV-002930: CAT II are not considered "In Place".

Name: STIG 4.5
ID: E6010E0A-7F71-4388-B8B7-EE9A02143474
Each requirement or recommendation identified by the Defense Information Systems Agency (DISA) STIG is represented by a STIG identifier (STIGID), which corresponds to a checklist item and a severity code [APSC-DV-<I>ID</I>: CAT <I>SEV</I>]. DISA STIG defines three severities with respect to vulnerabilities where their:

<LI>exploitation leads to direct and immediate loss of Confidentiality, Availability, or Integrity (CAT I).</LI>
<LI>exploitation potentially results in loss of Confidentiality, Availability, or Integrity (CAT II).</LI>
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The following table summarizes the number of issues identified across the different STIGIDs broken down by Fortify Priority Order. The status of a STIGID is considered "In Place" when there are no issues reported for a given STIGID.

If the project is missing a Fortify Static Code Analyzer (SCA) scan, or the scan contains findings that have not been fixed, hidden or suppressed, STIGID APSC-DV-003170: CAT II is not considered "In Place". Similarly, if the project is missing a Fortify WebInspect scan, or the scan contains any critical findings, STIGID APSC-DV-001460: CAT II and STIGID APSC-DV-002930: CAT II are not considered "In Place".

Name: STIG 4.6
ID: EFB9B012-44D6-456D-B197-03D2FD7C7AD6
Each requirement or recommendation identified by the Defense Information Systems Agency (DISA) STIG is represented by a STIG identifier (STIGID), which corresponds to a checklist item and a severity code [APSC-DV-<I>ID</I>: CAT <I>SEV</I>]. DISA STIG defines three severities with respect to vulnerabilities where their:

<LI>exploitation leads to direct and immediate loss of Confidentiality, Availability, or Integrity (CAT I).</LI>
<LI>exploitation potentially results in loss of Confidentiality, Availability, or Integrity (CAT II).</LI>
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If the project is missing a Fortify Static Code Analyzer (SCA) scan, or the scan contains findings that have not been fixed, hidden or suppressed, STIGID APSC-DV-003170: CAT II is not considered "In Place". Similarly, if the project is missing a Fortify WebInspect scan, or the scan contains any critical findings, STIGID APSC-DV-001460: CAT II and STIGID APSC-DV-002930: CAT II are not considered "In Place".

Name: STIG 4.7

ID: B04A1E01-F1C1-48D3-A827-0F70872182D7

Each requirement or recommendation identified by the Defense Information Systems Agency (DISA) STIG is represented by a STIG identifier (STIGID), which corresponds to a checklist item and a severity code [APSC-DV-<I>ID</I>: CAT <I>SEV</I>]. DISA STIG defines three severities with respect to vulnerabilities where their:

<LI>exploitation leads to direct and immediate loss of Confidentiality, Availability, or Integrity (CAT I).</LI>
<LI>exploitation potentially results in loss of Confidentiality, Availability, or Integrity (CAT II).</LI>
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If the project is missing a Fortify Static Code Analyzer (SCA) scan, or the scan contains findings that have not been fixed, hidden or suppressed, STIGID APSC-DV-003170: CAT II is not considered "In Place". Similarly, if the project is missing a Fortify WebInspect scan, or the scan contains any critical findings, STIGID APSC-DV-001460: CAT II and STIGID APSC-DV-002930: CAT II are not considered "In Place".

Name: STIG 4.8

ID: E6805D9F-D5B5-4192-962C-46828FF68507

Each requirement or recommendation identified by the Defense Information Systems Agency (DISA) STIG is represented by a STIG identifier (STIGID), which corresponds to a checklist item and a severity code [APSC-DV-<I>ID</I>: CAT <I>SEV</I>]. DISA STIG defines three severities with respect to vulnerabilities where their:

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<LI>exploitation potentially results in loss of Confidentiality, Availability, or Integrity (CAT II).</LI>
<LI>existence degrades protections against loss of Confidentiality, Availability, or Integrity (CAT III).</LI> </UL>

The following table summarizes the number of issues identified across the different STIGIDs broken down by Fortify Priority Order. The status of a STIGID is considered "In Place" when there are no issues reported for a given STIGID.

If the project is missing a Fortify Static Code Analyzer (SCA) scan, or the scan contains findings that have not been fixed, hidden or suppressed, STIGID APSC-DV-003170: CAT II is not considered "In Place". Similarly, if the project is missing a Fortify WebInspect scan, or the scan contains any critical findings, STIGID APSC-DV-001460: CAT II and STIGID APSC-DV-002930: CAT II are not considered "In Place".

Name: STIG 4.9

ID: 7B9F7B3B-07FC-4B61-99A1-70E3BB23A6A0

Each requirement or recommendation identified by the Defense Information Systems Agency (DISA) STIG is represented by a STIG identifier (STIGID), which corresponds to a checklist item and a severity code [APSC-DV-<I>ID</I>: CAT <I>SEV</I>]. DISA STIG defines three severities with respect to vulnerabilities where their:

<LI>exploitation leads to direct and immediate loss of Confidentiality, Availability, or Integrity (CAT I).</LI>
<LI>exploitation potentially results in loss of Confidentiality, Availability, or Integrity (CAT II).</LI>
<LI>existence degrades protections against loss of Confidentiality, Availability, or Integrity (CAT III).</LI> </UL>

The following table summarizes the number of issues identified across the different STIGIDs broken down by Fortify Priority Order. The status of a STIGID is considered "In Place" when there are no issues reported for a given STIGID.

If the project is missing a Fortify Static Code Analyzer (SCA) scan, or the scan contains findings that have not been fixed, hidden or suppressed, STIGID APSC-DV-003170: CAT II is not considered "In Place". Similarly, if the project is missing a Fortify

WebInspect scan, or the scan contains any critical findings, STIGID APSC-DV-001460: CAT II and STIGID APSC-DV-002930: CAT II are not considered "In Place".

Name: WASC 2.00
ID: 74f8081d-dd49-49da-880f-6830cebe9777
The Web Application Security Consortium (WASC) was created as a cooperative effort to standardize, clarify, and organize the threats to the security of a web site. Version 2.00 of their Threat Classification outlines the attacks and weaknesses that can commonly lead to a website being compromised.

Name: WASC 24 + 2
ID: 9DC61E7F-1A48-4711-BBFD-E9DFF537871F
The Web Application Security Consortium (WASC) was created as a cooperative effort to standardize, clarify, and organize the threats to the security of a web site.

Properties
WinForms.CollectionMutationMonitor.Label=WinFormsDataSource
awt.toolkit=sun.awt.X11.XToolkit
com.fortify.AuthenticationKey=/home/psdravid/.fortify/config/tools
com.fortify.Core=/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core
com.fortify.InstallRoot=/opt/Fortify/Fortify_SCA_and_Apps_19.1.0
com.fortify.InstallationUserName=psdravid
com.fortify.SCAExecutablePath=/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/bin/sourceanalyzer
com.fortify.TotalPhysicalMemory=8363917312
com.fortify.VS.RequireASPPrecompilation=true
com.fortify.WorkingDirectory=/home/psdravid/.fortify
com.fortify.locale=en
com.fortify.sca.AddImpliedMethods=true
com.fortify.sca.AntCompilerClass=com.fortify.dev.ant.SCACompiler
com.fortify.sca.AppendLogFile=true
com.fortify.sca.BuildID=registrationapp
com.fortify.sca.BundleControlflowIssues=true
com.fortify.sca.BytecodePreview=true
com.fortify.sca.CollectPerformanceData=true
com.fortify.sca.CustomRulesDir=/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/config/customrules
com.fortify.sca.DaemonCompilers=com.fortify.sca.util.compilers.GppCompiler,com.fortify.sca.util.compilers.GccCompiler,com.fortify.sca.util.compilers.AppleGppCompiler,com.fortify.sca.util.compilers.AppleGccCompiler,com.fortify.sca.util.compilers.MicrosoftCompiler,com.fortify.sca.util.compilers.MicrosoftLinker,com.fortify.sca.util.compilers.LdCompiler,com.fortify.sca.util.compilers.ArUtil,com.fortify.sca.util.compilers.SunCCompiler,com.fortify.sca.util.compilers.SunCppCompiler,com.fortify.sca.util.compilers.IntelCompiler,com.fortify.sca.util.compilers.ExternalCppAdapter,com.fortify.sca.util.compilers.ClangCompiler
com.fortify.sca.DeadCodeFilter=true
com.fortify.sca.DeadCodeIgnoreTrivialPredicates=true
com.fortify.sca.DefaultAnalyzers=semantic:dataflow:controlflow:nullptr:configuration:content:structural:buffer
com.fortify.sca.DefaultFileTypes=java,rb,erb,jsp,jspx,jspf,tag,tagx,tld,sql,cfm,php,phtml,ctp,pks,pkh,pkb,xml,config,Config,settings,properties,dll,exe,winmd,cs,vb,asax,ascx,ashx,asmx,aspx,master,Master,xaml,baml,cshtml,vbhtml,inc,asp,vbscript,js,ini,bas,cls,vbs,frm,ctl,html,htm,xsd,wsdd,xmi,py,cfml,cfc,abap,xhtml,cpx,xcfg,jsff,as,mxml,cbl,cscfg,csdef,wadcfg,wadcfgx,appxmanifest,wsdl,plist,bsp,ABAP,BSP,swift,page,trigger,scala,ts,conf,json,yaml,yml
com.fortify.sca.DefaultJarsDirs=default_jars
com.fortify.sca.DefaultRulesDir=/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/config/rules
com.fortify.sca.DisableDeadCodeElimination=false

com.fortify.sca.DisableFunctionPointers=false

com.fortify.sca.DisableGlobals=false

com.fortify.sca.DisableInferredConstants=false

com.fortify.sca.EnableInterproceduralConstantResolution=true

com.fortify.sca.EnableNestedWrappers=true

com.fortify.sca.EnableStructuralMatchCache=true

com.fortify.sca.EnableWrapperDetection=true

com.fortify.sca.FVDLDisableDescriptions=false

com.fortify.sca.FVDLDisableProgramData=false

com.fortify.sca.FVDLDisableSnippets=false

com.fortify.sca.FVDLStylesheet=/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/resources/sca/fvdl2html.xsl

com.fortify.sca.IndirectCallGraphBuilders=WinFormsAdHocFunctionBuilder,VirtualCGBuilder,J2EEIndirectCGBuilder,JNICGBuilder,StoredProcedureResolver,JavaWSCGBuilder,StrutsCGBuilder,DotNetWSCGBuilder,SqlServerSPResolver,ASPCGBuilder,ScriptedCGBuilder,NewJspCustomTagCGBuilder,DotNetCABCGBuilder,StateInjectionCGBuilder,SqlServerSPResolver2,PHPLambdaResolver,JavaWebCGBuilder

com.fortify.sca.JVMArgs=-XX:SoftRefLRUPolicyMSPerMB=3000 -Xmx6216433664 -Xss16M

com.fortify.sca.JavaSourcepathSearch=true

com.fortify.sca.JdkVersion=1.8

com.fortify.sca.LogFileDir=/home/psdravid/.fortify/sca19.1/log

com.fortify.sca.LogFileExt=.log

com.fortify.sca.LogFileName=sca.log

com.fortify.sca.LogFileNameNoExt=sca

com.fortify.sca.LogFilePath=/home/psdravid/.fortify/sca19.1/log/sca.log

com.fortify.sca.LogLevel=INFO

com.fortify.sca.LowSeverityCutoff=1.0

com.fortify.sca.MachineOutputMode=

com.fortify.sca.MultithreadedAnalysis=true

com.fortify.sca.NoNestedOutTagOutput=org.apache.taglibs.standard.tag.rt.core.RemoveTag,org.apache.taglibs.standard.tag.rt.core.SetTag

com.fortify.sca.OldVbNetExcludeFileTypes=vb,asax,ascx,ashx,asmx,aspx,xaml,cshtml,vbhtml

com.fortify.sca.PID=31925

com.fortify.sca.Phase0HigherOrder.Languages=python,ruby,swift,javascript,typescript

com.fortify.sca.Phase0HigherOrder.Level=1

com.fortify.sca.PrintPerformanceDataAfterScan=false

com.fortify.sca.ProjectRoot=/home/psdravid/.fortify

com.fortify.sca.ProjectRoot=/home/psdravid/.fortify

com.fortify.sca.Renderer=fpr

com.fortify.sca.RequireMapKeys=classrule

com.fortify.sca.ResultsFile=/srv/openmrs_code/org/openmrs/module/registrationapp/registrationapp_scan.fpr

com.fortify.sca.SolverTimeout=15

com.fortify.sca.SqlLanguage=PLSQL

com.fortify.sca.SuppressLowSeverity=true

com.fortify.sca.ThreadCount.NameTableLoading=1

com.fortify.sca.TypeInferenceFunctionTimeout=60

com.fortify.sca.TypeInferenceLanguages=javascript,typescript,python,ruby

com.fortify.sca.TypeInferencePhase0Timeout=300

com.fortify.sca.UnicodeInputFile=true

com.fortify.sca.UniversalBlacklist=.*yyparse.*

com.fortify.sca.alias.mode.csharp=fs

com.fortify.sca.alias.mode.javascript=fi

com.fortify.sca.alias.mode.scala=fi

com.fortify.sca.alias.mode.swift=fi

com.fortify.sca.alias.mode.typescript=fi

com.fortify.sca.alias.mode.vb=fs

com.fortify.sca.analyzer.controlflow.EnableLivenessOptimization=false

com.fortify.sca.analyzer.controlflow.EnableMachineFiltering=false

com.fortify.sca.analyzer.controlflow.EnableRefRuleOptimization=false

com.fortify.sca.analyzer.controlflow.EnableTimeOut=true

com.fortify.sca.compilers.ant=com.fortify.sca.util.compilers.AntAdapter

com.fortify.sca.compilers.ar=com.fortify.sca.util.compilers.ArUtil

com.fortify.sca.compilers.armcc=com.fortify.sca.util.compilers.ArmCcCompiler

com.fortify.sca.compilers.armcpp=com.fortify.sca.util.compilers.ArmCppCompiler

com.fortify.sca.compilers.c++=com.fortify.sca.util.compilers.GppCompiler

com.fortify.sca.compilers.cc=com.fortify.sca.util.compilers.GccCompiler

com.fortify.sca.compilers.clearmake=com.fortify.sca.util.compilers.TouchlessCompiler

com.fortify.sca.compilers.fortify=com.fortify.sca.util.compilers.FortifyCompiler

com.fortify.sca.compilers.g++=com.fortify.sca.util.compilers.GppCompiler

com.fortify.sca.compilers.g++-*=com.fortify.sca.util.compilers.GppCompiler

com.fortify.sca.compilers.g++2*=com.fortify.sca.util.compilers.GppCompiler

com.fortify.sca.compilers.g++3*=com.fortify.sca.util.compilers.GppCompiler

com.fortify.sca.compilers.g++4*=com.fortify.sca.util.compilers.GppCompiler

com.fortify.sca.compilers.gcc=com.fortify.sca.util.compilers.GccCompiler

com.fortify.sca.compilers.gcc-*=com.fortify.sca.util.compilers.GccCompiler

com.fortify.sca.compilers.gcc2*=com.fortify.sca.util.compilers.GccCompiler

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com.fortify.sca.compilers.gcc4*=com.fortify.sca.util.compilers.GccCompiler

com.fortify.sca.compilers.gmake=com.fortify.sca.util.compilers.TouchlessCompiler

com.fortify.sca.compilers.gradle=com.fortify.sca.util.compilers.GradleAdapter

com.fortify.sca.compilers.gradlew=com.fortify.sca.util.compilers.GradleAdapter

com.fortify.sca.compilers.icc=com.fortify.sca.util.compilers.IntelCompiler

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com.fortify.sca.compilers.jam=com.fortify.sca.util.compilers.TouchlessCompiler

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com.fortify.sca.compilers.make=com.fortify.sca.util.compilers.TouchlessCompiler

com.fortify.sca.compilers.mvn=com.fortify.sca.util.compilers.MavenAdapter

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com.fortify.sca.compilers.tcpp=com.fortify.sca.util.compilers.ArmCppCompiler

com.fortify.sca.compilers.touchless=com.fortify.sca.util.compilers.FortifyCompiler

com.fortify.sca.cpfe.441.command=/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/private-bin/sca/cpfe441.rfct

com.fortify.sca.cpfe.command=/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/private-bin/sca/cpfe48

com.fortify.sca.cpfe.file.option=--gen_c_file_name

com.fortify.sca.cpfe.options=--remove_unneeded_entities --suppress_vtbl -tused

com.fortify.sca.cpfe.options=--remove_unneeded_entities --suppress_vtbl -tused

com.fortify.sca.env.exesearchpath=/sbin:/bin:/usr/bin:/usr/local/bin

com.fortify.sca.fileextensions.ABAP=ABAP

com.fortify.sca.fileextensions.BSP=ABAP

com.fortify.sca.fileextensions.Config=XML

com.fortify.sca.fileextensions.abap=ABAP

com.fortify.sca.fileextensions.appxmanifest=XML

com.fortify.sca.fileextensions.as=ACTIONSCRIPT

```
com.fortify.sca.fileextensions.asp=ASP
com.fortify.sca.fileextensions.bas=VB6
com.fortify.sca.fileextensions.bsp=ABAP
com.fortify.sca.fileextensions.cfc=CFML
com.fortify.sca.fileextensions.cfm=CFML
com.fortify.sca.fileextensions.cfml=CFML
com.fortify.sca.fileextensions.cls=VB6
com.fortify.sca.fileextensions.conf=HOCON
com.fortify.sca.fileextensions.config=XML
com.fortify.sca.fileextensions.cpx=XML
com.fortify.sca.fileextensions.cscfg=XML
com.fortify.sca.fileextensions.csdef=XML
com.fortify.sca.fileextensions.ctl=VB6
com.fortify.sca.fileextensions.ctp=PHP
com.fortify.sca.fileextensions.erb=RUBY_ERB
com.fortify.sca.fileextensions.faces=JSPX
com.fortify.sca.fileextensions.frm=VB6
com.fortify.sca.fileextensions.htm=HTML
com.fortify.sca.fileextensions.html=HTML
com.fortify.sca.fileextensions.ini=JAVA_PROPERTIES
com.fortify.sca.fileextensions.java=JAVA
com.fortify.sca.fileextensions.js=TYPESCRIPT
com.fortify.sca.fileextensions.jsff=JSPX
com.fortify.sca.fileextensions.json=JSON
com.fortify.sca.fileextensions.jsp=JSP
com.fortify.sca.fileextensions.jspf=JSP
com.fortify.sca.fileextensions.jspx=JSPX
com.fortify.sca.fileextensions.jsx=TYPESCRIPT
com.fortify.sca.fileextensions.mxml=MXML
com.fortify.sca.fileextensions.page=VISUAL_FORCE
com.fortify.sca.fileextensions.php=PHP
com.fortify.sca.fileextensions.phtml=PHP
com.fortify.sca.fileextensions.pkb=PLSQL
com.fortify.sca.fileextensions.pkh=PLSQL
com.fortify.sca.fileextensions.pks=PLSQL
com.fortify.sca.fileextensions.plist=XML
com.fortify.sca.fileextensions.properties=JAVA_PROPERTIES
com.fortify.sca.fileextensions.py=PYTHON
com.fortify.sca.fileextensions.rb=RUBY
com.fortify.sca.fileextensions.scala=SCALA
com.fortify.sca.fileextensions.settings=XML
com.fortify.sca.fileextensions.sql=SQL
com.fortify.sca.fileextensions.swift=SWIFT
com.fortify.sca.fileextensions.tag=JSP
com.fortify.sca.fileextensions.tagx=JSP
com.fortify.sca.fileextensions.tld=TLD
com.fortify.sca.fileextensions.trigger=APEX_TRIGGER
com.fortify.sca.fileextensions.ts=TYPESCRIPT
com.fortify.sca.fileextensions.tsx=TYPESCRIPT
com.fortify.sca.fileextensions.vbs=VBSCRIPT
com.fortify.sca.fileextensions.vbscript=VBSCRIPT
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com.fortify.sca.fileextensions.wadcfg=XML

com.fortify.sca.fileextensions.wadcfgx=XML

com.fortify.sca.fileextensions.wsdd=XML

com.fortify.sca.fileextensions.wsdl=XML

com.fortify.sca.fileextensions.xcfg=XML

com.fortify.sca.fileextensions.xhtml=JSPX

com.fortify.sca.fileextensions.xmi=XML

com.fortify.sca.fileextensions.xml=XML

com.fortify.sca.fileextensions.xsd=XML

com.fortify.sca.fileextensions.yaml=YAML

com.fortify.sca.fileextensions.yml=YAML

com.fortify.sca.jsp.UseNativeParser=true

com.fortify.sca.parser.python.ignore.module.1=test.badsyntax_future3

com.fortify.sca.parser.python.ignore.module.2=test.badsyntax_future4

com.fortify.sca.parser.python.ignore.module.3=test.badsyntax_future5

com.fortify.sca.parser.python.ignore.module.4=test.badsyntax_future6

com.fortify.sca.parser.python.ignore.module.5=test.badsyntax_future7

com.fortify.sca.parser.python.ignore.module.6=test.badsyntax_future8

com.fortify.sca.parser.python.ignore.module.7=test.badsyntax_future9

com.fortify.sca.parser.python.ignore.module.8=test.badsyntax_nocaret

com.fortify.sca.skip.libraries.AngularJS=angular.js,angular.min.js,angular-animate.js,angular-aria.js,angular_1_router.js,angular-cookies.js,angular-message-format.js,angular-messages.js,angular-mocks.js,angular-parse-ext.js,angular-resource.js,angular-route.js,angular-sanitize.js,angular-touch.js

com.fortify.sca.skip.libraries.ES6=es6-shim.min.js,system-polyfills.js,shims_for_IE.js

com.fortify.sca.skip.libraries.jQuery=jquery.js,jquery.min.js,jquery-migrate.js,jquery-migrate.min.js,jquery-ui.js,jquery-ui.min.js,jquery.mobile.js,jquery.mobile.min.js,jquery.color.js,jquery.color.min.js,jquery.color.svg-names.js,jquery.color.svg-names.min.js,jquery.color.plus-names.js,jquery.color.plus-names.min.js,jquery.tools.min.js

com.fortify.sca.skip.libraries.javascript=bootstrap.js,bootstrap.min.js,typescript.js,typescriptServices.js

com.fortify.sca.skip.libraries.typescript=typescript.d.ts,typescriptServices.d.ts

com.fortify.search.defaultSyntaxVer=2

com.sun.management.jmxremote=true

file.encoding=UTF-8

file.encoding.pkg=sun.io

file.separator=/

java.awt.graphicsenv=sun.awt.X11GraphicsEnvironment

java.awt.headless=true

java.awt.printerjob=sun.print.PSPrinterJob

java.class.path=/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/lib/exe/sca-exe.jar

java.class.version=52.0

java.endorsed.dirs=/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/jre/lib/endorsed

java.ext.dirs=/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/jre/lib/ext:/usr/java/packages/lib/ext

java.home=/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/jre

java.io.tmpdir=/tmp

java.library.path=/usr/java/packages/lib/amd64:/usr/lib64:/lib64:/lib:/usr/lib

java.rmi.server.randomIDs=true

java.runtime.name=OpenJDK Runtime Environment

java.runtime.version=1.8.0_181-b02

java.specification.name=Java Platform API Specification

java.specification.vendor=Oracle Corporation

java.specification.version=1.8

java.vendor=Azul Systems, Inc.

java.vendor.url=http://www.azulsystems.com/

java.vendor.url.bug=http://www.azulsystems.com/support/

java.version=1.8.0_181

java.vm.info=mixed mode

java.vm.name=OpenJDK 64-Bit Server VM

java.vm.specification.name=Java Virtual Machine Specification

java.vm.specification.vendor=Oracle Corporation

java.vm.specification.version=1.8

java.vm.vendor=Azul Systems, Inc.

java.vm.version=25.181-b02

line.separator=

log4j.configurationFile=/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/config/log4j2.xml

log4j.isThreadContextMapInheritable=true

max.file.path.length=255

os.arch=amd64

os.name=Linux

os.version=4.15.0-58-generic

path.separator=:

stderr.isatty=false

stdout.isatty=false

sun.arch.data.model=64

sun.boot.class.path=/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/jre/lib/resources.jar:/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/jre/lib/rt.jar:/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/jre/lib/sunrsasign.jar:/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/jre/lib/jsse.jar:/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/jre/lib/jce.jar:/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/jre/lib/charsets.jar:/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/jre/lib/jfr.jar:/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/jre/classes

sun.boot.library.path=/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/jre/lib/amd64

sun.cpu.endian=little

sun.cpu.isalist=

sun.io.unicode.encoding=UnicodeLittle

sun.java.command=sourceanalyzer -Djava.awt.headless=true -Dcom.sun.management.jmxremote=true -XX:SoftRefLRUPolicyMSPerMB=3000 -Dcom.fortify.sca.env.exesearchpath=/sbin:/bin:/usr/bin:/usr/local/bin -Dcom.fortify.sca.ProjectRoot=/home/psdravid/.fortify -Dstdout.isatty=false -Dstderr.isatty=false -Dcom.fortify.sca.PID=31925 -Xmx6216433664 -Dcom.fortify.TotalPhysicalMemory=8363917312 -Xss16M -Dcom.fortify.sca.JVMArgs=-XX:SoftRefLRUPolicyMSPerMB=3000 -Xmx6216433664 -Xss16M -Djava.class.path=/opt/Fortify/Fortify_SCA_and_Apps_19.1.0/Core/lib/exe/sca-exe.jar -scan @/home/psdravid/.fortify/Eclipse.Plugin-19.1.0/registrationapp/registrationappScan.txt

sun.jnu.encoding=UTF-8

sun.management.compiler=HotSpot 64-Bit Tiered Compilers

sun.os.patch.level=unknown

user.country=US

user.dir=/srv/start_scripts/desktop_files

user.home=/home/psdravid

user.language=en

user.name=psdravid

user.timezone=America/New_York

Commandline Arguments

-scan

-b

registrationapp

-format

fpr

-machine-output

-f

/srv/openmrs_code/org/openmrs/module/registrationapp/registrationapp_scan.fpr

Warnings

[12003] Assuming Java source level to be 1.8 as it was not specified. Note that the default value may change in future versions.
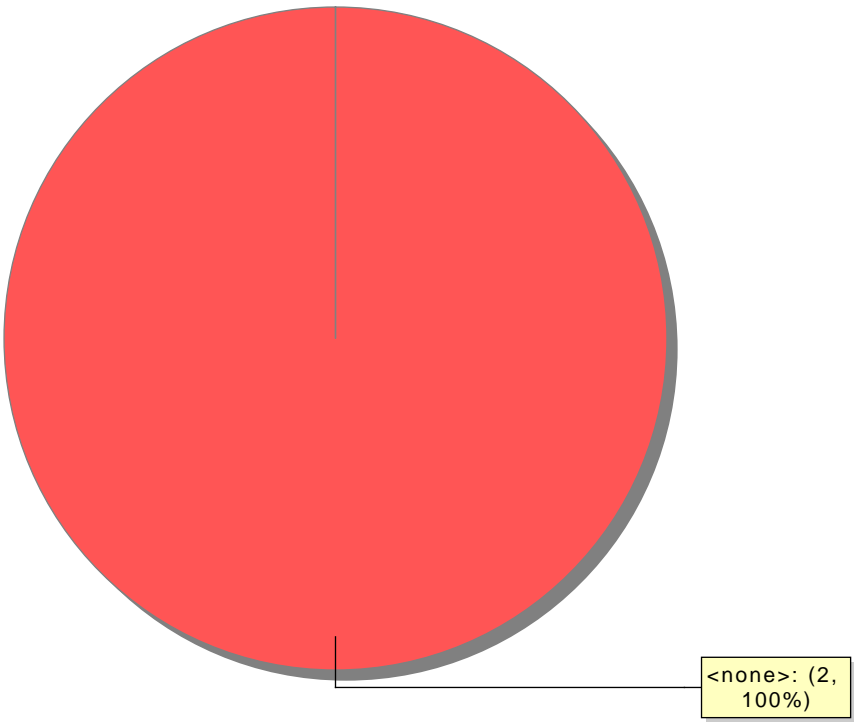
Issue Count by Category	
Issues by Category	
Log Forging	2

Fortify Security Report

Issue Breakdown by Analysis

Issues by Analysis

<none>: (2, 100%)

● <none>