Fortify Audit Workbench

Developer Workbook

## PS_INB_ERX_Fortify-3.0.1.005

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Executive Summary

This workbook is intended to provide all necessary details and information for a developer to understand and remediate the different issues discovered during the PS_INB_ERX_Fortify-3.0.1.005 project audit. The information contained in this workbook is targeted at project managers and developers.

This section provides an overview of the issues uncovered during analysis.

Project Name: PS_INB_ERX_Fortify-3.0

Project Version:

SCA: Results Present

WebInspect: Results Not Present

WebInspect Agent: Results Not Present

Other: Results Not Present

Issues by Priority

Impact ↑		
	5 **High**	**0** **Critical**
	316 **Low**	**8** **Medium**

Likelihood →

Top Ten Critical Categories

This project does not contain any critical issues

Project Description

This section provides an overview of the Fortify scan engines used for this project, as well as the project meta-information.

<u>**SCA**</u>

Date of Last Analysis:	Jun 6, 2019, 9:48 AM	**Engine Version:**	18.20.1071
Host Name:	HAM-LT51592	**Certification:**	VALID
Number of Files:	2,175	**Lines of Code:**	113,961

Issue Breakdown by Fortify Categories

The following table depicts a summary of all issues grouped vertically by Fortify Category. For each category, the total number of issues is shown by Fortify Priority Order, including information about the number of audited issues.

Category	Fortify Priority (audited/total)				Total Issues
	Critical	**High**	**Medium**	**Low**	
Access Control: Database	0	0	0	0 / 2	0 / 2
Build Misconfiguration: External Maven Dependency Repository	0	0	0	0 / 6	0 / 6
Code Correctness: Misleading Method Signature	0	0	0	4 / 4	4 / 4
Cross-Site Request Forgery	0	0	0	6 / 6	6 / 6
Cross-Site Scripting: Poor Validation	0	0	8 / 8	32 / 32	40 / 40
Denial of Service	0	0	0	0 / 1	0 / 1
Hidden Field	0	0	0	0 / 11	0 / 11
J2EE Misconfiguration: Excessive Session Timeout	0	0	0	0 / 1	0 / 1
Missing Check against Null	0	0	0	1 / 11	1 / 11
Obsolete: Deprecated by ESAPI	0	0	0	0 / 77	0 / 77
Password Management	0	0	0	0 / 5	0 / 5
Password Management: Hardcoded Password	0	4 / 4	0	0	4 / 4
Password Management: Password in Comment	0	0	0	18 / 18	18 / 18
Poor Error Handling: Overly Broad Catch	0	0	0	0 / 29	0 / 29
Poor Error Handling: Overly Broad Throws	0	0	0	0 / 17	0 / 17
Poor Error Handling: Throw Inside Finally	0	0	0	0 / 1	0 / 1
Poor Style: Value Never Read	0	0	0	31 / 31	31 / 31
SQL Injection	0	0	0	0 / 1	0 / 1
System Information Leak: External	0	1 / 1	0	0 / 7	1 / 8
System Information Leak: HTML Comment in JSP	0	0	0	0 / 27	0 / 27
Trust Boundary Violation	0	0	0	0 / 29	0 / 29

Results Outline

Access Control: Database (2 issues)

Abstract

Without proper access control, executing a SQL statement that contains a user-controlled primary key can allow an attacker to view unauthorized records.

Explanation

Database access control errors occur when: 1. Data enters a program from an untrusted source. 2. The data is used to specify the value of a primary key in a SQL query. **Example 1:** The following code uses a parameterized statement, which escapes metacharacters and prevents SQL injection vulnerabilities, to construct and execute a SQL query that searches for an invoice matching the specified identifier [1]. The identifier is selected from a list of all invoices associated with the current authenticated user.

```
...
id = Integer.decode(request.getParameter("invoiceID"));
String query = "SELECT * FROM invoices WHERE id = ?";
PreparedStatement stmt = conn.prepareStatement(query);
stmt.setInt(1, id);
ResultSet results = stmt.execute();
...
```

The problem is that the developer has failed to consider all of the possible values of `id`. Although the interface generates a list of invoice identifiers that belong to the current user, an attacker may bypass this interface to request any desired invoice. Because the code in this example does not check to ensure that the user has permission to access the requested invoice, it will display any invoice, even if it does not belong to the current user. Some think that in the mobile world, classic web application vulnerabilities, such as database access control errors, 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 id = this.getIntent().getExtras().getString("invoiceID");
        String query = "SELECT * FROM invoices WHERE id = ?";
        SQLiteDatabase db = this.openOrCreateDatabase("DB", MODE_PRIVATE,
null);
        Cursor c = db.rawQuery(query, new Object[]{id});
...
```

A number of modern web frameworks provide mechanisms for performing validation of user input. Struts and Spring MVC are among them. To highlight the unvalidated sources of input, the 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.

Recommendation

Rather than relying on the presentation layer to restrict values submitted by the user, access control should be handled by the application and database layers. Under no circumstances should a user be allowed to retrieve or modify a row in the database without the appropriate permissions. Every query that accesses
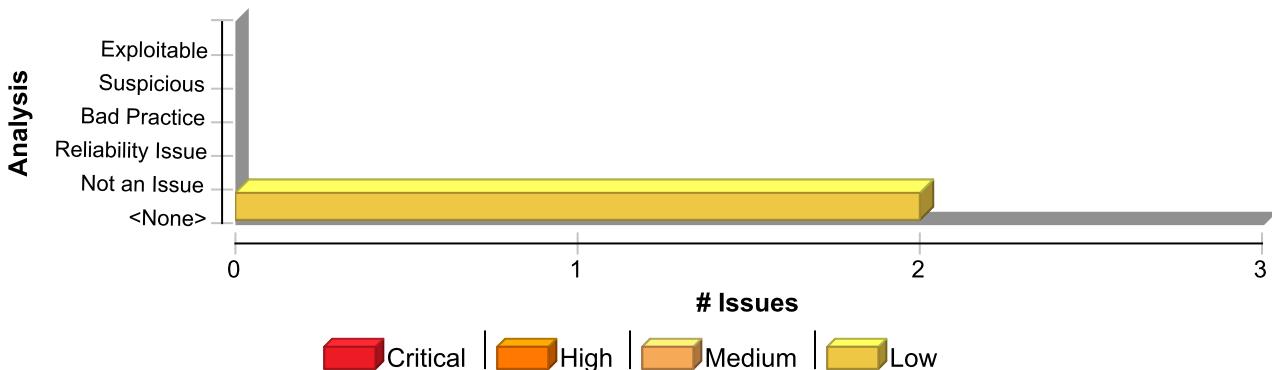
the database should enforce this policy, which can often be accomplished by simply including the current authenticated username as part of the query. **Example 3:** The following code implements the same functionality as Example 1 but imposes an additional constraint requiring that the current authenticated user have specific access to the invoice.

```
...
userName = ctx.getAuthenticatedUserName();
id = Integer.decode(request.getParameter("invoiceID"));
String query =
        "SELECT * FROM invoices WHERE id = ? AND user = ?";
PreparedStatement stmt = conn.prepareStatement(query);
stmt.setInt(1, id);
stmt.setString(2, userName);
ResultSet results = stmt.execute();
...
```

And here is an Android equivalent:

```
...
        PasswordAuthentication pa = authenticator.getPasswordAuthentication();
        String userName = pa.getUserName();
        String id = this.getIntent().getExtras().getString("invoiceID");
        String query = "SELECT * FROM invoices WHERE id = ? AND user = ?";
        SQLiteDatabase db = this.openOrCreateDatabase("DB", MODE_PRIVATE,
null);
        Cursor c = db.rawQuery(query, new Object[]{id, userName});
...
```

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Access Control: Database	2	0	0	2
Total	**2**	**0**	**0**	**2**

Access Control: Database	Low

URL: /managePharm/getStationIdsForSelect	

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/ PharmacyDaoImpl.java, line 260 (Access Control: Database)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Data Flow)

Access Control: Database	Low

URL: /managePharm/getStationIdsForSelect

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/PharmacyDaoImpl.java, line 260 (Access Control: Database)	Low

Source Details

Source: getStationIdsForSelect(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.getStationIdsForSelect
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:837
URL: /managePharm/getStationIdsForSelect

```
834   @RequestMapping(value = "/getStationIdsForSelect", method =
RequestMethod.GET, produces = "application/json")
835   @CacheControl(policy = {CachePolicy.NO_CACHE})
836   @ResponseBody
837   public List<StationIdSelectModel>
getStationIdsForSelect(HttpServletRequest request, @RequestParam("visn")
String visn)
838   throws JsonParseException, JsonMappingException, IOException {
839
840
```

Sink Details

Sink: org.hibernate.Criteria.add()
Enclosing Method: getSelectedStationIdsByVisn()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/PharmacyDaoImpl.java:260
Taint Flags: NUMBER, WEB

```
257
258   if(!"All".equalsIgnoreCase(visn)){
259
260   criteria.add(Restrictions.eq("visn", Long.valueOf(visn)));
261
262   criteria.add(buildStringInCriterion("vaStationId", userStationIds));
263
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/PharmacyDaoImpl.java, line 224 (Access Control: Database)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Data Flow)

Source Details

Source: getStationIdsForSelect(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.getStationIdsForSelect

Access Control: Database	Low
URL: /managePharm/getStationIdsForSelect	
PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/ PharmacyDaoImpl.java, line 224 (Access Control: Database)	Low

File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyMa nagementController.java:837
URL: /managePharm/getStationIdsForSelect

```
834  @RequestMapping(value = "/getStationIdsForSelect", method =
RequestMethod.GET, produces = "application/json")
835  @CacheControl(policy = {CachePolicy.NO_CACHE})
836  @ResponseBody
837  public List<StationIdSelectModel>
getStationIdsForSelect(HttpServletRequest request, @RequestParam("visn")
String visn)
838  throws JsonParseException, JsonMappingException, IOException {
839
840
```

Sink Details

Sink: org.hibernate.Criteria.add()
Enclosing Method: getPharmacyStationIdsByVisn()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/PharmacyDaoImpl.java: 224
Taint Flags: NUMBER, WEB

```
221
222  if(!"All".equalsIgnoreCase(visn)){
223
224  criteria.add(Restrictions.eq("visn", Long.valueOf(visn)));
225
226  try
227  {
```

Build Misconfiguration: External Maven Dependency Repository (6 issues)

Abstract

This maven build script relies on external sources, which could allow an attacker to insert malicious code into the final product or to take control of the build machine.

Explanation

Several tools exist within the Java development world to aid in dependency management: both Apache Ant and Apache Maven build systems include functionality specifically designed to help manage dependencies and Apache Ivy is developed explicitly as a dependency manager. Although there are differences in their behavior, these tools share the common functionality that they automatically download external dependencies specified in the build process at build time. This makes it much easier for developer B to build software in the same manner as developer A. Developers just store dependency information in the build file, which means that each developer and build engineer has a consistent way to obtain dependencies, compile the code, and deploy without the dependency management hassles involved in manual dependency management. The following examples illustrate how Ivy, Ant and Maven can be used to manage external dependencies as part of a build process. Under Maven, instead of listing explicit URLs from which to retrieve the dependencies, developers specify the dependency names and versions and Maven relies on its underlying configuration to identify the server(s) from which to retrieve the dependencies. For commonly used components this saves the developer from having to researching dependency locations. **Example 1:** The following except from a Maven pom.xml file shows how a developer can specify multiple external dependencies using their name and version:

```
<dependencies>
  <dependency>
    <groupId>commons-logging</groupId>
    <artifactId>commons-logging</artifactId>
    <version>1.1</version>
  </dependency>
  <dependency>
    <groupId>javax.jms</groupId>
    <artifactId>jms</artifactId>
    <version>1.1</version>
  </dependency>
  ...
</dependencies>
```

Two distinct types of attack scenarios affect these systems: An attacker could either compromise the server hosting the dependency or compromise the DNS server the build machine uses to redirect requests for hostname of the server hosting the dependency to a machine controlled by the attacker. Both scenarios result in the attacker gaining the ability to inject a malicious version of a dependency into a build running on an otherwise uncompromised machine. Regardless of the attack vector used to deliver the Trojan dependency, these scenarios share the common element that the build system blindly accepts the malicious binary and includes it in the build. Because the build system has no recourse for rejecting the malicious binary and existing security mechanisms, such as code review, typically focus on internally-developed code rather than external dependencies, this type of attack has a strong potential to go unnoticed as it spreads through the development environment and potentially into production. Although there is some risk of a compromised dependency being introduced into a manual build process, by the tendency of automated build systems to retrieve the dependency from an external source each time the build system is run in a new environment greatly increases the window of opportunity for an attacker. An attacker need only compromise the dependency server or the DNS server during one of the many times the dependency is retrieved in order to compromise the machine on which the build is occurring.
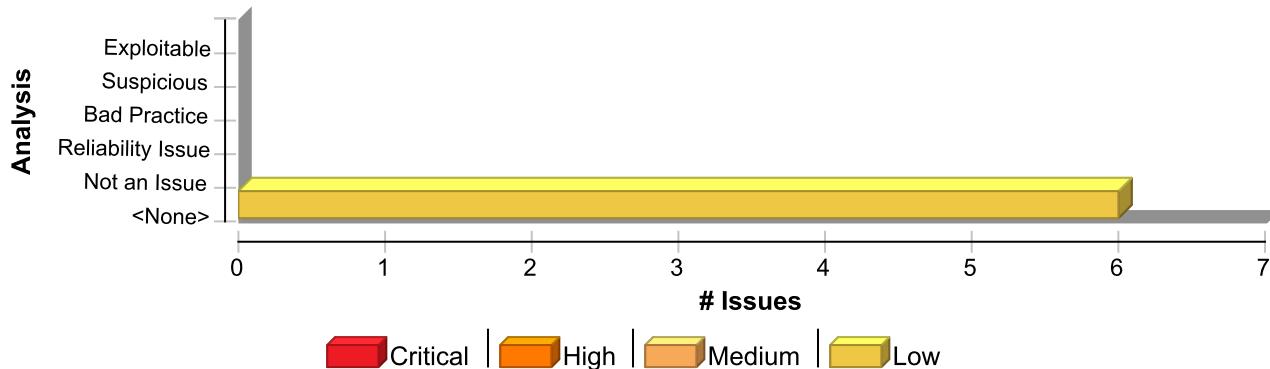
Recommendation

The simplest solution is to refrain from adopting automated dependency management systems altogether. Managing dependencies manually eliminates the potential for unexpected behavior caused by the build system. Obviously, the an attacker could still mount one of the attacks described above to coincide with the manual retrieval of a dependency, but limiting the frequency with which the dependency must be retrieved significantly reduces the window of opportunity for an attacker. Finally, this solution forces the development organization to rely on what is ostensibly an antiquated build system. A system based on manual dependency management is often more difficult to use and maintain, and may be unacceptable in some software development environments. The second solution is a hybrid of the traditional manual dependency management approach and the fully automated solution that is popular today. The biggest advantage of the manual build process is the decreased window of attack, which can be achieved in a semi-automated system by replicating external dependency servers internally. Any build system that requires an external dependency can then point to the internal server using a hard-coded internal IP address to bypass the risk of DNS-based attacks. As new dependencies are added and new versions released, they can be downloaded once and included on the internal repository. This solution reduces the attack opportunities and allows the organization leverage existing internal network security infrastructure. To implement this solution using Maven, a project should have the IP address for an internal repository hard coded the pom.xml. Specifying the IP address in the pom.xml ensures the internal repository will be used by the corresponding build, but is tied to a specific project. Alternatively, the IP address can be specified in settings.xml, which makes the configuration easier to share across multiple projects. **Example 2:** The following Maven pom.xml demonstrates the use of an explicit internal IP address (the entries can also be used in settings.xml):

```
<project>
  ...
  <repositories>
    <repository>
      <releases>
        <enabled>true</enabled>
        <updatePolicy>always</updatePolicy>
        <checksumPolicy>warn</checksumPolicy>
      </releases>
      <snapshots>
        <enabled>true</enabled>
        <updatePolicy>never</updatePolicy>
        <checksumPolicy>fail</checksumPolicy>
      </snapshots>
      <id>central</id>
      <name>Internal Repository</name>
      <url>http://172.16.1.13/maven2</url>
      <layout>default</layout>
    </repository>
  </repositories>
  <pluginRepositories>
    ...
  </pluginRepositories>
  ...
</project>
```

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Build Misconfiguration: External Maven Dependency Repository	6	0	0	6
Total	**6**	**0**	**0**	**6**

Build Misconfiguration: External Maven Dependency Repository	Low

Package: PS_INB_ERX_Common	

PS_INB_ERX_Common/pom.xml, line 2 (Build Misconfiguration: External Maven Dependency Repository)	Low

Issue Details

Kingdom: Environment
Scan Engine: SCA (Configuration)

Sink Details

Sink: //project/repositories
File: PS_INB_ERX_Common/pom.xml:2
Taint Flags:

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance"
2   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-
v4_0_0.xsd">
3
4   <modelVersion>4.0.0</modelVersion>
5   <artifactId>PS_INB_ERX_Common</artifactId>
6
7 undefined
```

Package: PS_INB_ERX_Fortify	

PS_INB_ERX_Fortify/pom.xml, line 21 (Build Misconfiguration: External Maven Dependency Repository)	Low

Issue Details

Kingdom: Environment
Scan Engine: SCA (Configuration)

Sink Details

Build Misconfiguration: External Maven Dependency Repository	**Low**

Package: PS_INB_ERX_Fortify	

PS_INB_ERX_Fortify/pom.xml, line 21 (Build Misconfiguration: External Maven Dependency Repository)	**Low**

Sink: //project/repositories
File: PS_INB_ERX_Fortify/pom.xml:21
Taint Flags:

```
18
19  </modules>
20
21    <repositories>
22    <repository>
23    <id>project.local</id>
24    <name>project</name>
```

Package: PS_INB_ERX_Model	

PS_INB_ERX_Model/pom.xml, line 2 (Build Misconfiguration: External Maven Dependency Repository)	**Low**

Issue Details

Kingdom: Environment
Scan Engine: SCA (Configuration)

Sink Details

Sink: //project/repositories
File: PS_INB_ERX_Model/pom.xml:2
Taint Flags:

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance"
2  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-
v4_0_0.xsd">
3
4  <modelVersion>4.0.0</modelVersion>
5  <name>PS_INB_ERX_Model</name>
6
7 undefined
```

Package: PS_INB_ERX_Service	

PS_INB_ERX_Service/pom.xml, line 16 (Build Misconfiguration: External Maven Dependency Repository)	**Low**

Issue Details

Kingdom: Environment
Scan Engine: SCA (Configuration)

Sink Details

Sink: //project/repositories

Build Misconfiguration: External Maven Dependency Repository	Low

Package: PS_INB_ERX_Service

PS_INB_ERX_Service/pom.xml, line 16 (Build Misconfiguration: External Maven Dependency Repository)	Low

File: PS_INB_ERX_Service/pom.xml:16
Taint Flags:

```
13   <relativePath>../PS_INB_ERX/pom.xml</relativePath>
14   </parent>
15
16   <repositories>
17   <repository>
18   <id>project.local</id>
19   <name>project</name>
```

Package: PS_INB_ERX_UI

PS_INB_ERX_UI/pom.xml, line 17 (Build Misconfiguration: External Maven Dependency Repository)	Low

Issue Details

Kingdom: Environment
Scan Engine: SCA (Configuration)

Sink Details

Sink: //project/repositories
File: PS_INB_ERX_UI/pom.xml:17
Taint Flags:

```
14   </parent>
15
16
17   <repositories>
18   <repository>
19   <id>project.local</id>
20   <name>project</name>
```

Package: PS_INB_ERX_WS

PS_INB_ERX_WS/pom.xml, line 16 (Build Misconfiguration: External Maven Dependency Repository)	Low

Issue Details

Kingdom: Environment
Scan Engine: SCA (Configuration)

Sink Details

Sink: //project/repositories
File: PS_INB_ERX_WS/pom.xml:16
Taint Flags:

```
13   <relativePath>../PS_INB_ERX/pom.xml</relativePath>
```

Build Misconfiguration: External Maven Dependency Repository	Low

Package: PS_INB_ERX_WS	

PS_INB_ERX_WS/pom.xml, line 16 (Build Misconfiguration: External Maven Dependency Repository)	Low

```
14  </parent>
15
16  <repositories>
17  <repository>
18  <id>project.local</id>
19  <name>project</name>
```

Code Correctness: Misleading Method Signature (4 issues)

Abstract

This looks like an effort to override a common Java method, but it probably does not have the intended effect.

Explanation

This method's name is similar to a common Java method name, but it is either spelled incorrectly or the argument list causes it to not override the intended method. **Example 1:** The following method is meant to override `Object.equals()`:

```
public boolean equals(Object obj1, Object obj2) {
  ...
}
```
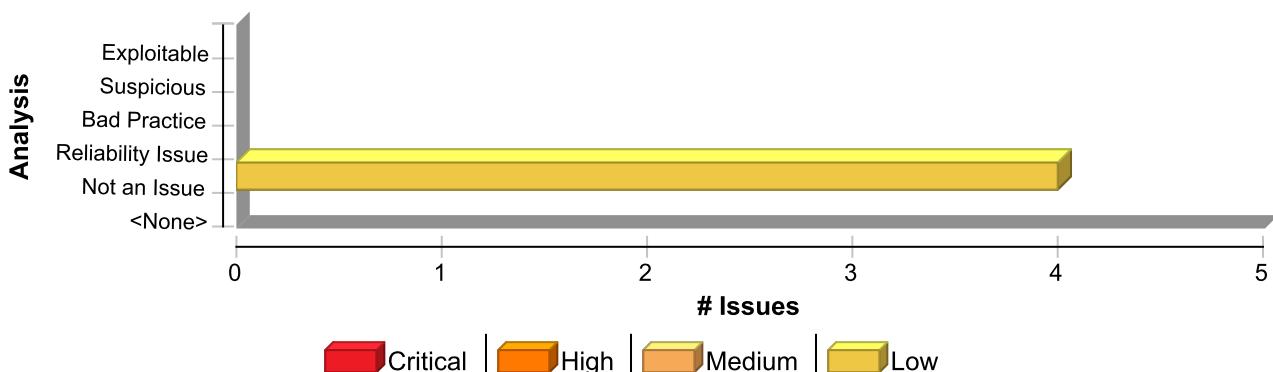
But since `Object.equals()` only takes a single argument, the method above is never called.

Recommendation

Carefully check to make sure the method does what was intended. **Example 2:** The code in Example 1 could be rewritten in the following way:

```
public boolean equals(Object obj) {
  ...
}
```

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Code Correctness: Misleading Method Signature	4	0	0	4
Total	**4**	**0**	**0**	**4**

Code Correctness: Misleading Method Signature	Low
Package: gov.va.med.pharmacy.persistence.model.usertypes	
PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/model/ usertypes/OutboundNcpdpMsgUserType.java, line 57 (Code Correctness: Misleading Method Signature)	**Low**
Issue Details	

Code Correctness: Misleading Method Signature	Low

Package: gov.va.med.pharmacy.persistence.model.usertypes	

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/model/usertypes/OutboundNcpdpMsgUserType.java, line 57 (Code Correctness: Misleading Method Signature)	Low

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis	Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Sep 26 2017 09:42:49 GMT-0400 (EDT)
The method does not override Object.hashCode. It overides
gov.va.med.pharmacy.persistence.model.usertypes.InboundNcpdpMsgUserType.hashCode and has the desired
effect.

Sink Details

Sink: Function: hashCode
Enclosing Method: hashCode()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/model/usertypes/
OutboundNcpdpMsgUserType.java:57
Taint Flags:

```
54   }
55
56   @Override
57   public int hashCode(Object x) throws HibernateException {
58   return (x != null) ? x.hashCode() : 0;
59   }
60
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/model/usertypes/InboundNcpdpMsgUserType.java, line 51 (Code Correctness: Misleading Method Signature)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis	Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Sep 26 2017 09:42:49 GMT-0400 (EDT)
The method does not override Object.hashCode. It overides
gov.va.med.pharmacy.persistence.model.usertypes.InboundNcpdpMsgUserType.hashCode and has the desired
effect.

Sink Details

Sink: Function: hashCode
Enclosing Method: hashCode()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/model/usertypes/
InboundNcpdpMsgUserType.java:51

Code Correctness: Misleading Method Signature	Low

Package: gov.va.med.pharmacy.persistence.model.usertypes	

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/model/usertypes/InboundNcpdpMsgUserType.java, line 51 (Code Correctness: Misleading Method Signature)	Low

Taint Flags:

```
48  }
49
50  @Override
51  public int hashCode(Object x) throws HibernateException {
52
53  return (x != null) ? x.hashCode() : 0;
54
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/model/usertypes/InboundNcpdpMsgUserType.java, line 44 (Code Correctness: Misleading Method Signature)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis	Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Sep 26 2017 09:41:19 GMT-0400 (EDT)
The method does not override Object.equals. It overides
gov.va.med.pharmacy.persistence.model.usertypes.InboundNcpdpMsgUserType.equals and has the desired
effect.

Sink Details

Sink: Function: equals
Enclosing Method: equals()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/model/usertypes/
InboundNcpdpMsgUserType.java:44
Taint Flags:

```
41  }
42
43  @Override
44  public boolean equals(Object x, Object y) throws HibernateException {
45
46  return (x != null) && x.equals(y);
47
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/model/usertypes/OutboundNcpdpMsgUserType.java, line 52 (Code Correctness: Misleading Method Signature)	Low

Issue Details

Kingdom: Code Quality

Code Correctness: Misleading Method Signature	Low
Package: gov.va.med.pharmacy.persistence.model.usertypes	
PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/model/usertypes/OutboundNcpdpMsgUserType.java, line 52 (Code Correctness: Misleading Method Signature)	**Low**

Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandlJ: Tue Sep 26 2017 09:41:19 GMT-0400 (EDT)
The method does not override Object.equals. It overides
gov.va.med.pharmacy.persistence.model.usertypes.InboundNcpdpMsgUserType.equals and has the desired effect.

Sink Details

Sink: Function: equals
Enclosing Method: equals()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/model/usertypes/OutboundNcpdpMsgUserType.java:52
Taint Flags:

```
49  }
50
51  @Override
52  public boolean equals(Object x, Object y) throws HibernateException {
53  return (x != null) && x.equals(y);
54  }
55
```

Cross-Site Request Forgery (6 issues)

Abstract

Form posts must contain a user-specific secret in order to prevent an attacker from making unauthorized requests.

Explanation

A cross-site request forgery (CSRF) vulnerability occurs when: 1. A Web application uses session cookies. 2. The application acts on an HTTP request without verifying that the request was made with the user's consent. A nonce is a cryptographic random value that is sent with a message to prevent replay attacks. If the request does not contain a nonce that proves its provenance, the code that handles the request is vulnerable to a CSRF attack (unless it does not change the state of the application). This means a Web application that uses session cookies has to take special precautions in order to ensure that an attacker can't trick users into submitting bogus requests. Imagine a Web application that allows administrators to create new accounts by submitting this form:

```
<form method="POST" action="/new_user" >
  Name of new user: <input type="text" name="username">
  Password for new user: <input type="password" name="user_passwd">
    <input type="submit" name="action" value="Create User">
</form>
```

An attacker might set up a Web site with the following:

```
<form method="POST" action="http://www.example.com/new_user">
  <input type="hidden" name="username" value="hacker">
  <input type="hidden" name="user_passwd" value="hacked">
</form>
<script>
  document.usr_form.submit();
</script>
```

If an administrator for `example.com` visits the malicious page while she has an active session on the site, she will unwittingly create an account for the attacker. This is a CSRF attack. It is possible because the application does not have a way to determine the provenance of the request. Any request could be a legitimate action chosen by the user or a faked action set up by an attacker. The attacker does not get to see the Web page that the bogus request generates, so the attack technique is only useful for requests that alter the state of the application. Applications that pass the session identifier in the URL rather than as a cookie do not have CSRF problems because there is no way for the attacker to access the session identifier and include it as part of the bogus request. CSRF is entry number five on the 2007 OWASP Top 10 list.

Recommendation

Applications that use session cookies must include some piece of information in every form post that the back-end code can use to validate the provenance of the request. One way to do that is to include a random request identifier or nonce, like this:
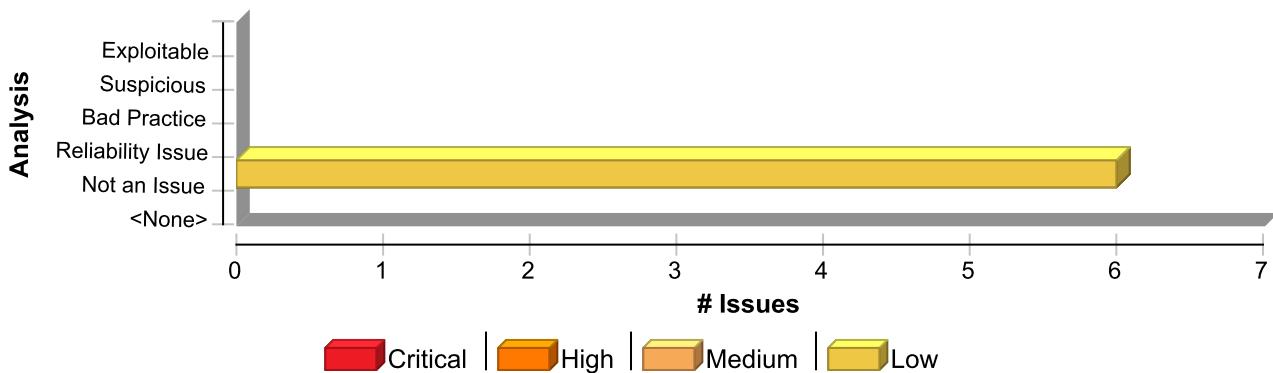
```
  RequestBuilder rb = new RequestBuilder(RequestBuilder.POST, "/new_user");
  body = addToPost(body, new_username);
  body = addToPost(body, new_passwd);
  body = addToPost(body, request_id);
  rb.sendRequest(body, new NewAccountCallback(callback));
```

Then the back-end logic can validate the request identifier before processing the rest of the form data. When possible, the request identifier should be unique to each server request rather than shared across every request for a particular session. As with session identifiers, the harder it is for an attacker to guess the request identifier, the harder it is to conduct a successful CSRF attack. The token should not be easily guessed and it should be protected in the same way that session tokens are protected, such as using SSLv3. Additional mitigation techniques include: **Framework protection:** Most modern web application

frameworks embed CSRF protection and they will automatically include and verify CSRF tokens. **Use a Challenge-Response control:** Forcing the customer to respond to a challenge sent by the server is a strong defense against CSRF. Some of the challenges that can be used for this purpose are: CAPTCHAs, password re-authentication and one-time tokens. **Check HTTP Referer/Origin headers:** An attacker won't be able to spoof these headers while performing a CSRF attack. This makes these headers a useful method to prevent CSRF attacks. **Double-submit Session Cookie:** Sending the session ID Cookie as a hidden form value in addition to the actual session ID Cookie is a good protection against CSRF attacks. The server will check both values and make sure they are identical before processing the rest of the form data. If an attacker submits a form in behalf of a user, he won't be able to modify the session ID cookie value as per the same-origin-policy. **Limit Session Lifetime:** When accessing protected resources using a CSRF attack, the attack will only be valid as long as the session ID sent as part of the attack is still valid on the server. Limiting the Session lifetime will reduce the probability of a successful attack. The techniques described here can be defeated with XSS attacks. Effective CSRF mitigation includes XSS mitigation techniques.

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Cross-Site Request Forgery	6	0	0	6
Total	**6**	**0**	**0**	**6**

Cross-Site Request Forgery	Low

Package: .src.main.webapp.WEB-INF	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 11 (Cross-Site Request Forgery)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Content)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Fri Sep 22 2017 15:02:49 GMT-0400 (EDT)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Sink Details

Cross-Site Request Forgery	Low

Package: .src.main.webapp.WEB-INF	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 11 (Cross-Site Request Forgery)	Low

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp:11
Taint Flags:

```
8
9 <div id="AddPharm">
10 <h1 class="titleBar"><span class="headerText">Add Pharmacy</span></h1>
11 <form:form id="pharmacyAddForm" name="pharmacyAddForm" commandName="pharmacyAddForm" method="POST" action="${pageContext.request.contextPath}/inb-erx/managePharm/addNewPharmacy">
12 <div id="warningMessage" class="warning" aria-describedby="Informational message or warning message section" tabindex="0">
13 <p id="errorTitle">
14 <font class="warningHeader">Warning Message: </font>
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/reports.jsp, line 22 (Cross-Site Request Forgery)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Content)

Audit Details

Analysis	Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:24:12 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Sink Details

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/reports.jsp:22
Taint Flags:

```
19 </div>
20
21 <div id="summaryReportFilter">
22 <form id="summaryReportForm" >
23 <h2 class="h2title"><span class="reportTitle"></span></h2>
24 <label for="visnSelection">VISN:  </label>
25 <div id="summaryReportFormVisnSelect" tabindex="0" style="width: 40px; ">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp, line 10 (Cross-Site Request Forgery)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Content)

Audit Details

Analysis	Not an Issue

Cross-Site Request Forgery	Low

Package: .src.main.webapp.WEB-INF	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp, line 10 (Cross-Site Request Forgery)	Low

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:24:12 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Sink Details

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp:10
Taint Flags:

```
7   <div id="userRoles">
8   <h2 class="titleBar"><span> User Management</span>
9   </h2>
10  <form:form name="manageUsersForm" id ="manageUsersForm"
modelAttribute="userManagementModel" method="POST" action="${pageContext.request.contextPath}/
inb-erx/manageUsers/saveUserData">
11  <c:if test="${not empty data.errorMessage }">
12  <div id="errorMessages" class="error" aria-describedby="message section" tabindex="0">
13  <p id="errorTitle">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/loginErrorLayout.jsp, line 23 (Cross-Site Request Forgery)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Content)

Audit Details

Analysis	Not an Issue

Audit Comments

VHAHAMWandIJ: Fri Sep 22 2017 15:02:49 GMT-0400 (EDT)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Sink Details

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/loginErrorLayout.jsp:23
Taint Flags:

```
20  <hr />
21  <div id="content">
22  <br/>
23  <form action="${index}" method="post" >
24
25  <div align="center">
26  <br/>
```

Cross-Site Request Forgery	Low

Package: .src.main.webapp.WEB-INF	
PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 12 (Cross-Site Request Forgery)	**Low**

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Content)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandlJ: Fri Sep 22 2017 15:02:49 GMT-0400 (EDT)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Sink Details

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp:12
Taint Flags:

```
9  <div id="EditPharm">
10
11 <h1 class="titleBar"><span class="headerText">Edit Pharmacy</span></h1>
12 <form:form id="pharmacyEditForm" name="pharmacyEditForm" commandName="pharmacyEditForm"
   method="POST" action="${pageContext.request.contextPath}/inb-erx/managePharm/updatePharmacy">
13 <div id="warningMessage" class="warning" aria-describedby="message section" tabindex="0">
14 <p id="errorTitle">
15 <font class="warningHeader">Warning Message: </font>
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/managepharmacy.jsp, line 35 (Cross-Site Request Forgery)	**Low**

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Content)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:24:12 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Sink Details

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/managepharmacy.jsp:35
Taint Flags:

```
32 </c:if>
33
34 <div id="pharmacyManagement">
35 <form:form id="pharmacyFilterForm" name="pharmacyFilterForm">
36
37
```

Cross-Site Request Forgery	Low
Package: .src.main.webapp.WEB-INF	
PS_INB_ERX_UI/src/main/webapp/WEB-INF/managepharmacy.jsp, line 35 (Cross-Site Request Forgery)	**Low**

```
38   <div id="NCPDP_ID_DIV" class="pharmacyManagementNCPDPIDDiv" style="display: block;
     opacity: 1;">
```

Cross-Site Scripting: Poor Validation (40 issues)

Abstract

Relying on HTML, XML and other types of encoding to validate user input can result in the browser executing malicious code.

Explanation

The use of certain encoding constructs, such as the tag with the `escapeXml="true"` attribute (the default behavior), will prevent some, but not all cross-site scripting attacks. Depending on the context in which the data appear, characters beyond the basic <, >, &, and " that are HTML-encoded and those beyond <, >, &, ", and ' that are XML-encoded may take on meta-meaning. Relying on such encoding constructs is equivalent to using a weak blacklist to prevent cross-site scripting and might allow an attacker to inject malicious code that will be executed in the browser. Because accurately identifying the context in which the data appear statically is not always possible, Fortify Static Code Analyzer reports cross-site scripting findings even when encoding is applied and presents them as Cross-Site Scripting: Poor Validation issues. Cross-site scripting (XSS) vulnerabilities occur when: 1. Data enters a web application through an untrusted source. In the case of reflected XSS, an untrusted source is most frequently a web request, and in the case of persistent (also known as stored) XSS -- it is the results of a database query. 2. The data is included in dynamic content that is sent to a web user without being validated. The malicious content sent to the web browser often takes the form of a segment of JavaScript, but may also include HTML, Flash or any other type of code that the browser executes. The variety of attacks based on XSS is almost limitless, but they commonly include transmitting private data like cookies or other session information to the attacker, redirecting the victim to web content controlled by the attacker, or performing other malicious operations on the user's machine under the guise of the vulnerable site. **Example 1:** The following JSP code segment reads an employee ID, `eid`, from an HTTP request and displays it to the user via the tag.

```
Employee ID: <c:out value="${param.eid}"/>
```

The code in this example operates correctly if `eid` contains only standard alphanumeric text. If `eid` has a value that includes meta-characters or source code, then the code will be executed by the web browser as it displays the HTTP response. Initially this might not appear to be much of a vulnerability. After all, why would someone enter a URL that causes malicious code to run on their own computer? The real danger is that an attacker will create the malicious URL, then use e-mail or social engineering tricks to lure victims into visiting a link to the URL. When victims click the link, they unwittingly reflect the malicious content through the vulnerable web application back to their own computers. This mechanism of exploiting vulnerable web applications is known as Reflected XSS. **Example 2:** The following JSP code segment queries a database for an employee with a given ID and prints the corresponding employee's name via the tag.

```
<%...
Statement stmt = conn.createStatement();
ResultSet rs = stmt.executeQuery("select * from emp where id="+eid);
if (rs != null) {
    rs.next();
    String name = rs.getString("name");
}
%>

Employee Name: <c:out value="${name}"/>
```

As in Example 1, this code functions correctly when the values of `name` are well-behaved, but it does nothing to prevent exploits if they are not. Again, this code can appear less dangerous because the value of `name` is read from a database, whose contents are apparently managed by the application. However, if the value of `name` originates from user-supplied data, then the database can be a conduit for malicious content. Without proper input validation on all data stored in the database, an attacker may execute malicious commands in the user's web browser. This type of exploit, known as Persistent (or Stored) XSS,

is particularly insidious because the indirection caused by the data store makes it more difficult to identify the threat and increases the possibility that the attack will affect multiple users. XSS got its start in this form with web sites that offered a "guestbook" to visitors. Attackers would include JavaScript in their guestbook entries, and all subsequent visitors to the guestbook page would execute the malicious code. Some think that in the mobile world, classic web application vulnerabilities, such as cross-site scripting, 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 3:** The following code enables JavaScript in Android's WebView (by default, JavaScript is disabled) and loads a page based on the value received from an Android intent.

```
...
        WebView webview = (WebView) findViewById(R.id.webview);
        webview.getSettings().setJavaScriptEnabled(true);
        String url = this.getIntent().getExtras().getString("url");
        webview.loadUrl(URLEncoder.encode(url));
...
```

If the value of `url` starts with `javascript:`, JavaScript code that follows will execute within the context of the web page inside WebView. As the examples demonstrate, XSS vulnerabilities are caused by code that includes unvalidated data in an HTTP response. There are three vectors by which an XSS attack can reach a victim: - As in Example 1, data is read directly from the HTTP request and reflected back in the HTTP response. Reflected XSS exploits occur when an attacker causes a user to supply dangerous content to a vulnerable web application, which is then reflected back to the user and executed by the web browser. The most common mechanism for delivering malicious content is to include it as a parameter in a URL that is posted publicly or e-mailed directly to victims. URLs constructed in this manner constitute the core of many phishing schemes, whereby an attacker convinces victims to visit a URL that refers to a vulnerable site. After the site reflects the attacker's content back to the user, the content is executed and proceeds to transfer private information, such as cookies that may include session information, from the user's machine to the attacker or perform other nefarious activities. - As in Example 2, the application stores dangerous data in a database or other trusted data store. The dangerous data is subsequently read back into the application and included in dynamic content. Persistent XSS exploits occur when an attacker injects dangerous content into a data store that is later read and included in dynamic content. From an attacker's perspective, the optimal place to inject malicious content is in an area that is displayed to either many users or particularly interesting users. Interesting users typically have elevated privileges in the application or interact with sensitive data that is valuable to the attacker. If one of these users executes malicious content, the attacker may be able to perform privileged operations on behalf of the user or gain access to sensitive data belonging to the user. - As in Example 3, a source outside the application stores dangerous data in a database or other data store, and the dangerous data is subsequently read back into the application as trusted data and included in dynamic content. A number of modern web frameworks provide mechanisms for performing validation of user input. Struts and Spring MVC are two examples. To highlight the unvalidated sources of input, the 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.

Recommendation

The solution to XSS is to ensure that validation occurs in the correct places and checks are made for the correct properties. Since XSS vulnerabilities occur when an application includes malicious data in its output, one logical approach is to validate data immediately before it leaves the application. However, because web applications often have complex and intricate code for generating dynamic content, this method is prone to errors of omission (missing validation). An effective way to mitigate this risk is to also perform input validation for XSS. Web applications must validate their input to prevent other vulnerabilities, such as SQL injection, so augmenting an application's existing input validation mechanism to include
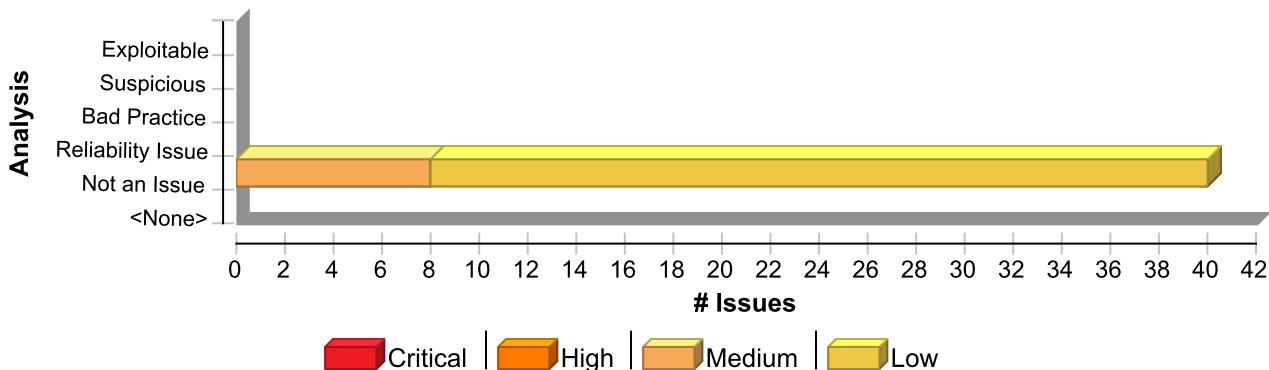
checks for XSS is generally relatively easy. Despite its value, input validation for XSS does not take the place of rigorous output validation. An application may accept input through a shared data store or other trusted source, and that data store may accept input from a source that does not perform adequate input validation. Therefore, the application cannot implicitly rely on the safety of this or any other data. This means the best way to prevent XSS vulnerabilities is to validate everything that enters the application and leaves the application destined for the user. The most secure approach to validation for XSS is to create a whitelist of safe characters that are allowed to appear in HTTP content and accept input composed exclusively of characters in the approved set. For example, a valid username might only include alpha-numeric characters or a phone number might only include digits 0-9. However, this solution is often infeasible in web applications because many characters that have special meaning to the browser should still be considered valid input once they are encoded, such as a web design bulletin board that must accept HTML fragments from its users. A more flexible, but less secure approach is known as blacklisting, which selectively rejects or escapes potentially dangerous characters before using the input. In order to form such a list, you first need to understand the set of characters that hold special meaning for web browsers. Although the HTML standard defines what characters have special meaning, many web browsers try to correct common mistakes in HTML and may treat other characters as special in certain contexts, which is why we do not encourage the use of blacklists as a means to prevent XSS. The CERT(R) Coordination Center at the Software Engineering Institute at Carnegie Mellon University provides the following details about special characters in various contexts [1]: In the content of a block-level element (in the middle of a paragraph of text): - "<" is special because it introduces a tag. - "&" is special because it introduces a character entity. - ">" is special because some browsers treat it as special, on the assumption that the author of the page intended to include an opening "<", but omitted it in error. The following principles apply to attribute values: - In attribute values enclosed with double quotes, the double quotes are special because they mark the end of the attribute value. - In attribute values enclosed with single quote, the single quotes are special because they mark the end of the attribute value. - In attribute values without any quotes, white-space characters, such as space and tab, are special. - "&" is special when used with certain attributes, because it introduces a character entity. In URLs, for example, a search engine might provide a link within the results page that the user can click to re-run the search. This can be implemented by encoding the search query inside the URL, which introduces additional special characters: - Space, tab, and new line are special because they mark the end of the URL. - "&" is special because it either introduces a character entity or separates CGI parameters. - Non-ASCII characters (that is, everything above 128 in the ISO-8859-1 encoding) are not allowed in URLs, so they are considered to be special in this context. - The "%" symbol must be filtered from input anywhere parameters encoded with HTTP escape sequences are decoded by server-side code. For example, "%" must be filtered if input such as "%68%65%6C%6C%6F" becomes "hello" when it appears on the web page in question. Within the body of a : - Semicolons, parentheses, curly braces, and new line characters should be filtered out in situations where text could be inserted directly into a pre-existing script tag. Server-side scripts: - Server-side scripts that convert any exclamation characters (!) in input to double-quote characters (") on output might require additional filtering. Other possibilities: - If an attacker submits a request in UTF-7, the special character '<' appears as '+ADw-' and may bypass filtering. If the output is included in a page that does not explicitly specify an encoding format, then some browsers try to intelligently identify the encoding based on the content (in this case, UTF-7). After you identify the correct points in an application to perform validation for XSS attacks and what special characters the validation should consider, the next challenge is to identify how your validation handles special characters. If special characters are not considered valid input to the application, then you can reject any input that contains special characters as invalid. A second option in this situation is to remove special characters with filtering. However, filtering has the side effect of changing any visual representation of the filtered content and may be unacceptable in circumstances where the integrity of the input must be preserved for display. If input containing special characters must be accepted and displayed accurately, validation must encode any special characters to remove their significance. A complete list of ISO 8859-1 encoded values for special characters is provided as part of the official HTML specification [2]. Many application servers attempt to limit an application's exposure to cross-site scripting vulnerabilities by providing implementations for the functions responsible for setting certain specific HTTP response content that perform validation for the characters essential to a cross-site scripting attack. Do not rely on the server running your application to make it secure. When an application is developed there are no guarantees about what application servers it will run on during its lifetime. As standards and known

exploits evolve, there are no guarantees that application servers will also stay in sync.

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Cross-Site Scripting: Poor Validation	40	0	0	40
Total	**40**	**0**	**0**	**40**

Cross-Site Scripting: Poor Validation	Medium

Package: /WEB-INF	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/managepharmacy.jsp, line 60 (Cross-Site Scripting: Poor Validation)	Medium

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: org.springframework.jdbc.core.JdbcTemplate.query()
From: gov.va.med.pharmacy.persistence.track.impl.VisnSelectDaoImpl.getVisns
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/VisnSelectDaoImpl.java:66

```
63
64  try {
65
66  visnList = jdbcTemplate.query(sql,new VisnListRowMapper());
67  } catch (DataAccessException e) {
68
69
```

Cross-Site Scripting: Poor Validation	Medium

Package: /WEB-INF	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/managepharmacy.jsp, line 60 (Cross-Site Scripting: Poor Validation)	Medium

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/managepharmacy.jsp:60
Taint Flags: DATABASE, HTML_ENCODE, POORVALIDATION, PRIMARY_KEY,
VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, XSS

57	
58	`<select name="pharmacyFilterFormVisnSelect" id="pharmacyFilterFormVisnSelect" onchange="getPharmStationIdSelect(this);">`
59	`<c:forEach var="item" items="${visnList}">`
60	`<option value="${item.label}">${item.id}</option>`
61	`</c:forEach>`
62	`</select>`
63	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/managepharmacy.jsp, line 60 (Cross-Site Scripting: Poor Validation)	Medium

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis	Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: org.springframework.jdbc.core.JdbcTemplate.query()
From: gov.va.med.pharmacy.persistence.track.impl.VisnSelectDaoImpl.getVisns
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/VisnSelectDaoImpl.java:66

63	
64	`try {`
65	
66	`visnList = jdbcTemplate.query(sql,new VisnListRowMapper());`
67	`} catch (DataAccessException e) {`
68	
69	

Cross-Site Scripting: Poor Validation	Medium

Package: /WEB-INF

PS_INB_ERX_UI/src/main/webapp/WEB-INF/managepharmacy.jsp, line 60 (Cross-Site Scripting: Poor Validation)	Medium

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/managepharmacy.jsp:60
Taint Flags: DATABASE, HTML_ENCODE, POORVALIDATION, PRIMARY_KEY, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, XSS

```
57
58  <select name="pharmacyFilterFormVisnSelect" id="pharmacyFilterFormVisnSelect"
    onchange="getPharmStationIdSelect(this);">
59  <c:forEach var="item" items="${visnList}">
60  <option value="${item.label}">${item.id}</option>
61  </c:forEach>
62  </select>
63
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 23 (Cross-Site Scripting: Poor Validation)	Medium

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis	Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: org.springframework.jdbc.core.JdbcTemplate.query()
From: gov.va.med.pharmacy.persistence.track.impl.VisnSelectDaoImpl.getVisns
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/VisnSelectDaoImpl.java:66

```
63
64  try {
65
66  visnList = jdbcTemplate.query(sql,new VisnListRowMapper());
67  } catch (DataAccessException e) {
68
69
```

Cross-Site Scripting: Poor Validation	Medium

Package: /WEB-INF	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 23 (Cross-Site Scripting: Poor Validation)	Medium

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp:23
Taint Flags: DATABASE, HTML_ENCODE, POORVALIDATION, PRIMARY_KEY,
VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, XSS

```
20
21  <select name="trackauditVisnSelection" id="trackauditVisnSelection" class="dijit
dijitReset dijitInline dijitLeft dijitSelect dijitValidationTextBox dijitDownArrowButton
dijitSelectFixedWidth dijitValidationTextBoxFixedWidth dijitSelectLabel ">
22  <c:forEach var="item" items="${trackVisnList}">
23  <option value="${item.label}">${item.id}</option>
24  </c:forEach>
25  </select>
26
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 23 (Cross-Site Scripting: Poor Validation)	Medium

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: org.springframework.jdbc.core.JdbcTemplate.query()
From: gov.va.med.pharmacy.persistence.track.impl.VisnSelectDaoImpl.getVisns
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/VisnSelectDaoImpl.java:66

```
63
64  try {
65
66  visnList = jdbcTemplate.query(sql,new VisnListRowMapper());
67  } catch (DataAccessException e) {
68
```

Cross-Site Scripting: Poor Validation	Medium

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 23 (Cross-Site Scripting: Poor Validation)	Medium

```
69
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp:23
Taint Flags: DATABASE, HTML_ENCODE, POORVALIDATION, PRIMARY_KEY,
VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, XSS

```
20
21   <select name="trackauditVisnSelection" id="trackauditVisnSelection" class="dijit
dijitReset dijitInline dijitLeft dijitSelect dijitValidationTextBox dijitDownArrowButton
dijitSelectFixedWidth dijitValidationTextBoxFixedWidth dijitSelectLabel ">
22   <c:forEach var="item" items="${trackVisnList}">
23   <option value="${item.label}">${item.id}</option>
24   </c:forEach>
25   </select>
26
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/managepharmacy.jsp, line 60 (Cross-Site Scripting: Poor Validation)	Medium

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis	Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate.query()
From: gov.va.med.pharmacy.persistence.track.impl.VisnSelectDaoImpl.getSelectedVisns
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/Vis
nSelectDaoImpl.java:94

```
91   List<VisnSelectModel> visnList = new ArrayList<VisnSelectModel>();
92
93   try {
94   visnList = jdbcTemplate.query(sql,params, new VisnListRowMapper());
95   } catch (DataAccessException e) {
```

Cross-Site Scripting: Poor Validation	Medium
Package: /WEB-INF	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/managepharmacy.jsp, line 60 (Cross-Site Scripting: Poor Validation)	Medium

```
96
97  LOG.info("Exception retrieving selected visn from pharmacy." +
e.getMessage());
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/managepharmacy.jsp:60
Taint Flags: DATABASE, HTML_ENCODE, POORVALIDATION, PRIMARY_KEY,
VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, XSS

```
57
58  <select name="pharmacyFilterFormVisnSelect" id="pharmacyFilterFormVisnSelect"
onchange="getPharmStationIdSelect(this);">
59  <c:forEach var="item" items="${visnList}">
60  <option value="${item.label}">${item.id}</option>
61  </c:forEach>
62  </select>
63
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/managepharmacy.jsp, line 60 (Cross-Site Scripting: Poor Validation)	Medium

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate.query()
From: gov.va.med.pharmacy.persistence.track.impl.VisnSelectDaoImpl.getSelectedVisns
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/VisnSelectDaoImpl.java:94

```
91  List<VisnSelectModel> visnList = new ArrayList<VisnSelectModel>();
92
93  try {
94  visnList = jdbcTemplate.query(sql,params, new VisnListRowMapper());
```

Cross-Site Scripting: Poor Validation	Medium
Package: /WEB-INF	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/managepharmacy.jsp, line 60 (Cross-Site Scripting: Poor Validation)	Medium

```
95   } catch (DataAccessException e) {

96

97   LOG.info("Exception retrieving selected visn from pharmacy." +
e.getMessage());
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/managepharmacy.jsp:60
Taint Flags: DATABASE, HTML_ENCODE, POORVALIDATION, PRIMARY_KEY,
VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, XSS

```
57

58   <select name="pharmacyFilterFormVisnSelect" id="pharmacyFilterFormVisnSelect"
onchange="getPharmStationIdSelect(this);">

59   <c:forEach var="item" items="${visnList}">

60   <option value="${item.label}">${item.id}</option>

61   </c:forEach>

62   </select>

63
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 23 (Cross-Site Scripting: Poor Validation)	Medium

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis	Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate.query()
From: gov.va.med.pharmacy.persistence.track.impl.VisnSelectDaoImpl.getSelectedVisns
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/VisnSelectDaoImpl.java:94

```
91   List<VisnSelectModel> visnList = new ArrayList<VisnSelectModel>();

92

93   try {
```

Cross-Site Scripting: Poor Validation	Medium

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 23 (Cross-Site Scripting: Poor Validation)	**Medium**

```
94  visnList = jdbcTemplate.query(sql,params, new VisnListRowMapper());

95  } catch (DataAccessException e) {

96

97  LOG.info("Exception retrieving selected visn from pharmacy." +
e.getMessage());
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp:23
Taint Flags: DATABASE, HTML_ENCODE, POORVALIDATION, PRIMARY_KEY,
VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, XSS

```
20

21  <select name="trackauditVisnSelection" id="trackauditVisnSelection" class="dijit
dijitReset dijitInline dijitLeft dijitSelect dijitValidationTextBox dijitDownArrowButton
dijitSelectFixedWidth dijitValidationTextBoxFixedWidth dijitSelectLabel ">

22  <c:forEach var="item" items="${trackVisnList}">

23  <option value="${item.label}">${item.id}</option>

24  </c:forEach>

25  </select>

26
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 23 (Cross-Site Scripting: Poor Validation)	**Medium**

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis	Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate.query()
From: gov.va.med.pharmacy.persistence.track.impl.VisnSelectDaoImpl.getSelectedVisns
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/VisnSelectDaoImpl.java:94

```
91  List<VisnSelectModel> visnList = new ArrayList<VisnSelectModel>();
```

Cross-Site Scripting: Poor Validation	Medium

Package: /WEB-INF	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 23 (Cross-Site Scripting: Poor Validation)	Medium

```
92
93   try {
94   visnList = jdbcTemplate.query(sql,params, new VisnListRowMapper());
95   } catch (DataAccessException e) {
96
97   LOG.info("Exception retrieving selected visn from pharmacy." +
e.getMessage());
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp:23
Taint Flags: DATABASE, HTML_ENCODE, POORVALIDATION, PRIMARY_KEY,
VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, XSS

```
20
21   <select name="trackauditVisnSelection" id="trackauditVisnSelection" class="dijit
dijitReset dijitInline dijitLeft dijitSelect dijitValidationTextBox dijitDownArrowButton
dijitSelectFixedWidth dijitValidationTextBoxFixedWidth dijitSelectLabel ">
22   <c:forEach var="item" items="${trackVisnList}">
23   <option value="${item.label}">${item.id}</option>
24   </c:forEach>
25   </select>
26
```

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/addNewPharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 112 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/addNewPharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 112 (Cross-Site Scripting: Poor Validation)	Low

Source: addNewPharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.addNewPharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:476
URL: /managePharm/addNewPharmacy

473	`}`
474	
475	`@RequestMapping(value = "/addNewPharmacy", method = RequestMethod.POST)`
476	`public ModelAndView addNewPharmacy(HttpServletRequest request,@Valid @ModelAttribute("pharmacyAddForm") PharmacyForm pharmacyForm, BindingResult bindingResult) throws IOException {`
477	
478	`LOG.info("Trying to persist pharmacy information.");`
479	

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp:112
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

109	`<span class="required">(Required)</span>`
110	`</span>`
111	`</label>`
112	`<input id="pharmacyAddressLine1" class="editable pharmAddScreen" type="text" value="$ { pharmacyInfo.pharmacyAddressLine1}" size="20" maxlength="35" style="display: block; opacity: 1;" name="pharmacyAddressLine1" title="First line of pharmacy's address">`
113	`</div>`
114	
115	`<div id="PHARMACY_ADDRESS_LINE_2" class="displayable" style="display: block; opacity: 1;">`

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 102 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis	Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/addNewPharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 102 (Cross-Site Scripting: Poor Validation)	Low

Audit Comments

Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: addNewPharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.addNewPharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:476
URL: /managePharm/addNewPharmacy

473	`}`
474	
475	`@RequestMapping(value = "/addNewPharmacy", method = RequestMethod.POST)`
476	`public ModelAndView addNewPharmacy(HttpServletRequest request,@Valid @ModelAttribute("pharmacyAddForm") PharmacyForm pharmacyForm, BindingResult bindingResult) throws IOException {`
477	
478	`LOG.info("Trying to persist pharmacy information.");`
479	

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp:102
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

99	`<span class="required">(Required)</span>`
100	`</span>`
101	`</label>`
102	`<input id="divisionName" class="editable pharmAddScreen" type="text" value="${ pharmacyInfo.divisionName}" size="20" maxlength="35" style="display: block; opacity: 1;" name="divisionName" title="Pharmacy's division name">`
103	`</div>`
104	
105	`<div id="PHARMACY_ADDRESS_LINE_1" class="displayable" style="display: block; opacity: 1;">`

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 237 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/addNewPharmacy

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 237 (Cross-Site Scripting: Poor Validation)	Low

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: addNewPharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.addNewPharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:476
URL: /managePharm/addNewPharmacy

473	`}`
474	
475	`@RequestMapping(value = "/addNewPharmacy", method = RequestMethod.POST)`
476	`public ModelAndView addNewPharmacy(HttpServletRequest request,@Valid @ModelAttribute("pharmacyAddForm") PharmacyForm pharmacyForm, BindingResult bindingResult) throws IOException {`
477	
478	`LOG.info("Trying to persist pharmacy information.");`
479	

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp:237
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

234	`<label for="pharmacistSuffix">`
235	`Pharmacist Suffix:`
236	`</label>`
237	`<input id="pharmacistSuffix" class="editable pharmAddScreen" type="text" value="${ pharmacyInfo.pharmacistSuffix}" size="20" maxlength="35" style="display: block; opacity: 1;" name="pharmacistSuffix" title="Pharmacist's suffix">`
238	`</div>`
239	
240	`<div id="EAndE_CHECK_ENABLED" class="displayable" style="display: block; opacity: 1;" title="Disable or enable enrollment and eligibility check.">`

Cross-Site Scripting: Poor Validation	Low
URL: /managePharm/addNewPharmacy	
PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 180 (Cross-Site Scripting: Poor Validation)	**Low**

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: addNewPharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.addNewPharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:476
URL: /managePharm/addNewPharmacy

473	}
474	
475	@RequestMapping(value = "/addNewPharmacy", method = RequestMethod.POST)
476	public ModelAndView addNewPharmacy(HttpServletRequest request,@Valid @ModelAttribute("pharmacyAddForm") PharmacyForm pharmacyForm, BindingResult bindingResult) throws IOException {
477	
478	LOG.info("Trying to persist pharmacy information.");
479	

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp:180
Taint Flags: HTML_ENCODE, POORVALIDATION, PRIMARY_KEY, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

177	(Required)
178	
179	</label>
180	<input id="pharmacyFaxNumber" class="editable pharmAddScreen" type="text" value="${ pharmacyInfo.pharmacyFaxNumber}" size="20" maxlength="19" style="display: block; opacity: 1;" name="pharmacyFaxNumber" title="Pharmacy's fax number">
181	</div>
182	

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/addNewPharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 180 (Cross-Site Scripting: Poor Validation)	Low

```
183    <div id="NCPDP_ID" class="displayable" style="display: block; opacity: 1;">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 129 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: addNewPharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.addNewPharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:476
URL: /managePharm/addNewPharmacy

```
473    }

474

475    @RequestMapping(value = "/addNewPharmacy", method = RequestMethod.POST)

476    public ModelAndView addNewPharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyAddForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {

477

478    LOG.info("Trying to persist pharmacy information.");

479
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp:129
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
126    <span class="required">(Required)</span>

127    </span>

128    </label>

129    <input id="pharmacyCity" class="editable pharmAddScreen" type="text" value="$
```

Cross-Site Scripting: Poor Validation	Low

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 129 (Cross-Site Scripting: Poor Validation)	Low

```
{ pharmacyInfo.pharmacyCity}" size="20" maxlength="35" style="display: block; opacity: 1;"
name="pharmacyCity" title="Pharmacy's city">
```

130	`</div>`
131	
132	`<div id="PHARMACY_STATE" class="displayable" style="display: block; opacity: 1;" title="Pharmacy's state">`

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 190 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: addNewPharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.addNewPharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:476
URL: /managePharm/addNewPharmacy

473	`}`
474	
475	`@RequestMapping(value = "/addNewPharmacy", method = RequestMethod.POST)`
476	`public ModelAndView addNewPharmacy(HttpServletRequest request,@Valid @ModelAttribute("pharmacyAddForm") PharmacyForm pharmacyForm, BindingResult bindingResult) throws IOException {`
477	
478	`LOG.info("Trying to persist pharmacy information.");`
479	

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp:190
Taint Flags: HTML_ENCODE, POORVALIDATION, PRIMARY_KEY,
VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/addNewPharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 190 (Cross-Site Scripting: Poor Validation)	Low

VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

187	`<span class="required">(Required)</span>`
188	`</span>`
189	`</label>`

190	`<input id="ncpdpId" class="editable pharmAddScreen" type="text" value="$`
	`{ pharmacyInfo.ncpdpId}" size="20" maxlength="7" style="display: block; opacity: 1;"`
	`name="ncpdpId" title="Seven-digit NCPDP Provider ID Number">`

191	`</div>`
192	
193	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 160 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: addNewPharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.addNewPharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:476
URL: /managePharm/addNewPharmacy

473	`}`
474	
475	`@RequestMapping(value = "/addNewPharmacy", method = RequestMethod.POST)`

476	`public ModelAndView addNewPharmacy(HttpServletRequest request,@Valid`
	`@ModelAttribute("pharmacyAddForm") PharmacyForm pharmacyForm, BindingResult`
	`bindingResult) throws IOException {`

477	
478	`LOG.info("Trying to persist pharmacy information.");`
479	

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/addNewPharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 160 (Cross-Site Scripting: Poor Validation)	Low

Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp:160
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
157   <label for="crossStreet">
158   Cross Street:
159   </label>
160   <input id="crossStreet" class="editable pharmAddScreen" type="text" value="$
{ pharmacyInfo.crossStreet}" size="20" maxlength="35" style="display: block; opacity: 1;"
name="crossStreet" title="Major intersection nearest to pharmacy">
161   </div>
162
163   <div id="PHARMACY_PHONE_NUMBER" class="displayable" style="display: block; opacity: 1;">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 216 (Cross-Site Scripting: Poor Validation)	Low

Issue Details	

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details	

Analysis   Not an Issue

Audit Comments	

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details	

Source: addNewPharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.addNewPharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:476
URL: /managePharm/addNewPharmacy

```
473   }
474
475   @RequestMapping(value = "/addNewPharmacy", method = RequestMethod.POST)
476   public ModelAndView addNewPharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyAddForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {
477
478   LOG.info("Trying to persist pharmacy information.");
479
```

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/addNewPharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 216 (Cross-Site Scripting: Poor Validation)	Low

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp:216
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
213   <label for="pharmacistFirstName">
214   Pharmacist First Name:
215   </label>
216   <input id="pharmacistFirstName" class="editable pharmAddScreen" type="text" value="$
{ pharmacyInfo.pharmacistFirstName}" size="20" maxlength="35" style="display: block; opacity:
1;" name="pharmacistFirstName" title="Pharmacist's first name">
217   </div>
218
219   <div id="PHARMACIST_MIDDLE_NAME" class="displayable" style="display: block; opacity: 1;">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 209 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis	Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: addNewPharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.addNewPharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:476
URL: /managePharm/addNewPharmacy

```
473   }
474
475   @RequestMapping(value = "/addNewPharmacy", method = RequestMethod.POST)
476   public ModelAndView addNewPharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyAddForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {
```

Cross-Site Scripting: Poor Validation	Low

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 209 (Cross-Site Scripting: Poor Validation)	Low

477	
478	LOG.info("Trying to persist pharmacy information.");
479	

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp:209
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

206	<label for="pharmacistPrefix">
207	Pharmacist Prefix:
208	</label>
209	<input id="pharmacistPrefix" class="editable pharmAddScreen" type="text" value="${ pharmacyInfo.pharmacistPrefix}" size="20" maxlength="35" style="display: block; opacity: 1;" name="pharmacistPrefix" title="Pharmacist's prefix">
210	</div>
211	
212	<div id="PHARMACIST_FIRST_NAME" class="displayable" style="display: block; opacity: 1;">

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 92 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: addNewPharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.addNewPharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:476
URL: /managePharm/addNewPharmacy

473	}
474	

Cross-Site Scripting: Poor Validation	Low
URL: /managePharm/addNewPharmacy	
PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 92 (Cross-Site Scripting: Poor Validation)	**Low**

```
475   @RequestMapping(value = "/addNewPharmacy", method = RequestMethod.POST)
```

```
476   public ModelAndView addNewPharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyAddForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {
```

```
477
```

```
478   LOG.info("Trying to persist pharmacy information.");
```

```
479
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp:92
Taint Flags: HTML_ENCODE, POORVALIDATION, PRIMARY_KEY,
VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
89   <span class="required">(Required)</span>
```

```
90   </span>:
```

```
91   </label>
```

```
92   <input id="vaStationId" class="editable pharmAddScreen" type="text" value="$
{ pharmacyInfo.vaStationId}" size="20" maxlength="10" style="display: block; opacity: 1;"
name="vaStationId" title="VA Station ID of pharmacy">
```

```
93   </div>
```

```
94
```

```
95   <div id="DIVISION_NAME" class="displayable" style="display: block; opacity: 1;">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 230 (Cross-Site Scripting: Poor Validation)	**Low**

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis	Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: addNewPharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.addNewPharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyMa

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/addNewPharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 230 (Cross-Site Scripting: Poor Validation)	Low

nagementController.java:476
URL: /managePharm/addNewPharmacy

473	`}`
474	
475	`@RequestMapping(value = "/addNewPharmacy", method = RequestMethod.POST)`
476	`public ModelAndView addNewPharmacy(HttpServletRequest request,@Valid @ModelAttribute("pharmacyAddForm") PharmacyForm pharmacyForm, BindingResult bindingResult) throws IOException {`
477	
478	`LOG.info("Trying to persist pharmacy information.");`
479	

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp:230
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

227	`<label for="pharmacistLastName">`
228	`Pharmacist Last Name:`
229	`</label>`
230	`<input id="pharmacistLastName" class="editable pharmAddScreen" type="text" value="${ pharmacyInfo.pharmacistLastName}" size="20" maxlength="35" style="display: block; opacity: 1;" name="pharmacistLastName" title="Pharmacist's last name">`
231	`</div>`
232	
233	`<div id="PHARMACIST_SUFFIX" class="displayable" style="display: block; opacity: 1;">`

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 170 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/addNewPharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 170 (Cross-Site Scripting: Poor Validation)	Low

Source: addNewPharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.addNewPharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:476
URL: /managePharm/addNewPharmacy

473	`}`
474	
475	`@RequestMapping(value = "/addNewPharmacy", method = RequestMethod.POST)`
476	`public ModelAndView addNewPharmacy(HttpServletRequest request,@Valid @ModelAttribute("pharmacyAddForm") PharmacyForm pharmacyForm, BindingResult bindingResult) throws IOException {`
477	
478	`LOG.info("Trying to persist pharmacy information.");`
479	

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp:170
Taint Flags: HTML_ENCODE, POORVALIDATION, PRIMARY_KEY,
VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

167	`<span class="required">(Required)</span>`
168	`</span>`
169	`</label>`
170	`<input id="pharmacyPhoneNumber" class="editable pharmAddScreen" type="text" value="${ pharmacyInfo.pharmacyPhoneNumber}" size="20" maxlength="19" style="display: block; opacity: 1;" name="pharmacyPhoneNumber" title="Pharmacy's phone number">`
171	`</div>`
172	
173	`<div id="PHARMACY_FAX_NUMBER" class="displayable" style="display: block; opacity: 1;">`

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 223 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/addNewPharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 223 (Cross-Site Scripting: Poor Validation)	Low

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: addNewPharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.addNewPharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:476
URL: /managePharm/addNewPharmacy

```
473   }
474
475   @RequestMapping(value = "/addNewPharmacy", method = RequestMethod.POST)
476   public ModelAndView addNewPharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyAddForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {
477
478   LOG.info("Trying to persist pharmacy information.");
479
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp:223
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
220   <label for="pharmacistMiddleName">
221   Pharmacist Middle Name:
222   </label>
223   <input id="pharmacistMiddleName" class="editable pharmAddScreen" type="text" value="$
{ pharmacyInfo.pharmacistMiddleName}" size="20" maxlength="35" style="display: block; opacity:
1;" name="pharmacistMiddleName" title="Pharmacist's middle name">
224   </div>
225
226   <div id="PHARMACIST_LAST_NAME" class="displayable" style="display: block; opacity: 1;">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 61 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/addNewPharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 61 (Cross-Site Scripting: Poor Validation)	Low

Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: addNewPharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.addNewPharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:476
URL: /managePharm/addNewPharmacy

```
473    }

474

475    @RequestMapping(value = "/addNewPharmacy", method = RequestMethod.POST)

476    public ModelAndView addNewPharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyAddForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {

477

478    LOG.info("Trying to persist pharmacy information.");

479
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp:61
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
58    <span class="required">(Required)</span>

59    </span>

60    </label>

61    <input id="storeName" class="editable pharmAddScreen" type="text" value="$
{ pharmacyInfo.storeName}" size="20" maxlength="35" style="display: block; opacity: 1;"
name="storeName" title="Pharmacy's name. This is the published name visible to outside
providers">

62    </div>

63

64    <div id="INBOUND_ERX_ENABLED" class="displayable" style="display: block; opacity: 1;"
title="Disable or enable delivery of electronic prescriptions to pharmacy">
```

Cross-Site Scripting: Poor Validation	Low
URL: /managePharm/addNewPharmacy	
PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 119 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis	Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: addNewPharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.addNewPharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:476
URL: /managePharm/addNewPharmacy

```
473    }
474
475    @RequestMapping(value = "/addNewPharmacy", method = RequestMethod.POST)
476    public ModelAndView addNewPharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyAddForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {
477
478    LOG.info("Trying to persist pharmacy information.");
479
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp:119
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
116    <label for="pharmacyAddressLine2">
117    Pharmacy Address Line 2:
118    </label>
119    <input id="pharmacyAddressLine2" class="editable pharmAddScreen" type="text" value="$
{ pharmacyInfo.pharmacyAddressLine2}" size="20" maxlength="35" style="display: block; opacity:
1;" name="pharmacyAddressLine2" title="Second line of pharmacy's address">
120    </div>
121
122    <div id="PHARMACY_CITY" class="displayable" style="display: block; opacity: 1;">
```

Cross-Site Scripting: Poor Validation	Low

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 119 (Cross-Site Scripting: Poor Validation)	Low

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 153 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: addNewPharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.addNewPharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:476
URL: /managePharm/addNewPharmacy

```
473  }

474

475  @RequestMapping(value = "/addNewPharmacy", method = RequestMethod.POST)

476  public ModelAndView addNewPharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyAddForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {

477

478  LOG.info("Trying to persist pharmacy information.");

479
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp:153
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
150  <span class="required">(Required)</span>

151  </span>

152  </label>

153  <input id="pharmacyZipcode" class="editable pharmAddScreen" type="text" value="$
{ pharmacyInfo.pharmacyZipcode}" size="20" maxlength="10" style="display: block; opacity: 1;"
```

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/addNewPharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/addpharmacy.jsp, line 153 (Cross-Site Scripting: Poor Validation)	Low

```
name="pharmacyZipcode" title="Pharmacy's zip code">
154   </div>
155
156   <div id="CROSS_STREET" class="displayable" style="display: block; opacity: 1;">
```

URL: /managePharm/updatePharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 61 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: updatePharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.updatePharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:197
URL: /managePharm/updatePharmacy

```
194   }
195
196   @RequestMapping(value = "/updatePharmacy", method = RequestMethod.POST)
197   public ModelAndView updatePharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyEditForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {
198
199   LOG.info("Trying to persist pharmacy information.");
200
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp:61
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/updatePharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 61 (Cross-Site Scripting: Poor Validation)	Low

```
58   <span class="required">(Required)</span>
59   </span>
60   </label>
61   <input id="storeName" class="editable pharmEditScreen" type="text" value="$
{ pharmacyInfo.storeName}" size="20" maxlength="35" style="display: block; opacity: 1;"
name="storeName" title="Pharmacy's name. This is the published name visible to outside
providers">
62   </div>
63
64   <div id="INBOUND_ERX_ENABLED" class="displayable" style="display: block; opacity: 1;"
title="Disable or enable delivery of electronic prescriptions to pharmacy">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 92 (Cross-Site Scripting: Poor Validation)	Low

Issue Details	

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details	

Analysis	Not an Issue

Audit Comments	

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details	

Source: updatePharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.updatePharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:197
URL: /managePharm/updatePharmacy

```
194   }
195
196   @RequestMapping(value = "/updatePharmacy", method = RequestMethod.POST)
197   public ModelAndView updatePharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyEditForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {
198
199   LOG.info("Trying to persist pharmacy information.");
200
```

Sink Details	

Sink: javax.servlet.jsp.JspWriter.print()

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/updatePharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 92 (Cross-Site Scripting: Poor Validation)	Low

Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp:92
Taint Flags: HTML_ENCODE, POORVALIDATION, PRIMARY_KEY,
VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
89   <span class="required">(Required)</span>
90   </span>:
91   </label>
92   <input id="vaStationId" class="editable pharmEditScreen" type="text" value="$
{ pharmacyInfo.vaStationId}" size="20" maxlength="10" style="display: block; opacity: 1;"
name="vaStationId" title="VA Station ID of pharmacy">
93   </div>
94
95   <div id="DIVISION_NAME" class="displayable" style="display: block; opacity: 1;">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 102 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF
tokens and verifying CSRF tokens.

Source Details

Source: updatePharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.updatePharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:197
URL: /managePharm/updatePharmacy

```
194   }
195
196   @RequestMapping(value = "/updatePharmacy", method = RequestMethod.POST)
197   public ModelAndView updatePharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyEditForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {
198
199   LOG.info("Trying to persist pharmacy information.");
```

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/updatePharmacy

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 102 (Cross-Site Scripting: Poor Validation)	Low

```
200
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp:102
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
99   <span class="required">(Required)</span>
100  </span>
101  </label>
102  <input id="divisionName" class="editable pharmEditScreen" type="text" value="$
{ pharmacyInfo.divisionName}" size="20" maxlength="35" style="display: block; opacity: 1;"
name="divisionName" title="Pharmacy's division name">
103  </div>
104
105  <div id="PHARMACY_ADDRESS_LINE_1" class="displayable" style="display: block; opacity: 1;">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 112 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis	Not an Issue

Audit Comments

Source Details

Source: updatePharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.updatePharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:197
URL: /managePharm/updatePharmacy

```
194  }
195
196  @RequestMapping(value = "/updatePharmacy", method = RequestMethod.POST)
197  public ModelAndView updatePharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyEditForm") PharmacyForm pharmacyForm, BindingResult
```

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/updatePharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 112 (Cross-Site Scripting: Poor Validation)	Low

```
bindingResult) throws IOException {
198
199   LOG.info("Trying to persist pharmacy information.");
200
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp:112
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
109   <span class="required">(Required)</span>
110   </span>
111   </label>
112   <input id="pharmacyAddressLine1" class="editable pharmEditScreen" type="text" value="$
{ pharmacyInfo.pharmacyAddressLine1}" size="20" maxlength="35" style="display: block; opacity:
1;" name="pharmacyAddressLine1" title="First line of pharmacy's address">
113   </div>
114
115   <div id="PHARMACY_ADDRESS_LINE_2" class="displayable" style="display: block; opacity: 1;">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 119 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis	Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: updatePharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.updatePharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:197
URL: /managePharm/updatePharmacy

```
194   }
```

Cross-Site Scripting: Poor Validation	Low

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 119 (Cross-Site Scripting: Poor Validation)	Low

```
195
196  @RequestMapping(value = "/updatePharmacy", method = RequestMethod.POST)
197  public ModelAndView updatePharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyEditForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {
198
199  LOG.info("Trying to persist pharmacy information.");
200
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp:119
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
116  <label for="pharmacyAddressLine2">
117  Pharmacy Address Line 2:
118  </label>
119  <input id="pharmacyAddressLine2" class="editable pharmEditScreen" type="text" value="$
{ pharmacyInfo.pharmacyAddressLine2}" size="20" maxlength="35" style="display: block; opacity:
1;" name="pharmacyAddressLine2" title="Second line of pharmacy's address">
120  </div>
121
122  <div id="PHARMACY_CITY" class="displayable" style="display: block; opacity: 1;">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 129 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: updatePharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.updatePharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyMa

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/updatePharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 129 (Cross-Site Scripting: Poor Validation)	Low

nagementController.java:197
URL: /managePharm/updatePharmacy

194	`}`
195	
196	`@RequestMapping(value = "/updatePharmacy", method = RequestMethod.POST)`
197	`public ModelAndView updatePharmacy(HttpServletRequest request,@Valid @ModelAttribute("pharmacyEditForm") PharmacyForm pharmacyForm, BindingResult bindingResult) throws IOException {`
198	
199	`LOG.info("Trying to persist pharmacy information.");`
200	

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp:129
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

126	`<span class="required">(Required)</span>`
127	`</span>`
128	`</label>`
129	`<input id="pharmacyCity" class="editable pharmEditScreen" type="text" value="$ { pharmacyInfo.pharmacyCity}" size="20" maxlength="35" style="display: block; opacity: 1;" name="pharmacyCity" title="Pharmacy's city">`
130	`</div>`
131	
132	`<div id="PHARMACY_STATE" class="displayable" style="display: block; opacity: 1;" title="Pharmacy's state">`

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 153 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis	Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/updatePharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 153 (Cross-Site Scripting: Poor Validation)	Low

Source Details

Source: updatePharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.updatePharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:197
URL: /managePharm/updatePharmacy

```
194    }

195

196    @RequestMapping(value = "/updatePharmacy", method = RequestMethod.POST)

197    public ModelAndView updatePharmacy(HttpServletRequest request,@Valid
       @ModelAttribute("pharmacyEditForm") PharmacyForm pharmacyForm, BindingResult
       bindingResult) throws IOException {

198

199    LOG.info("Trying to persist pharmacy information.");

200
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp:153
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
150    <span class="required">(Required)</span>

151    </span>

152    </label>

153    <input id="pharmacyZipcode" class="editable pharmEditScreen" type="text" value="$
       { pharmacyInfo.pharmacyZipcode}" size="20" maxlength="10" style="display: block; opacity: 1;"
       name="pharmacyZipcode" title="Pharmacy's zip code">

154    </div>

155

156    <div id="CROSS_STREET" class="displayable" style="display: block; opacity: 1;">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 160 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis	Not an Issue

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/updatePharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 160 (Cross-Site Scripting: Poor Validation)	Low

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: updatePharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.updatePharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:197
URL: /managePharm/updatePharmacy

```
194   }
195
196   @RequestMapping(value = "/updatePharmacy", method = RequestMethod.POST)
197   public ModelAndView updatePharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyEditForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {
198
199   LOG.info("Trying to persist pharmacy information.");
200
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp:160
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
157   <label for="crossStreet">
158   Cross Street:
159   </label>
160   <input id="crossStreet" class="editable pharmEditScreen" type="text" value="$
{ pharmacyInfo.crossStreet}" size="20" maxlength="35" style="display: block; opacity: 1;"
name="crossStreet" title="Major intersection nearest to pharmacy">
161   </div>
162
163   <div id="PHARMACY_PHONE_NUMBER" class="displayable" style="display: block; opacity: 1;">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 170 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/updatePharmacy	
PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 170 (Cross-Site Scripting: Poor Validation)	**Low**

Scan Engine: SCA (Data Flow)

Audit Details

Analysis	Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: updatePharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.updatePharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:197
URL: /managePharm/updatePharmacy

```
194    }
195
196    @RequestMapping(value = "/updatePharmacy", method = RequestMethod.POST)
197    public ModelAndView updatePharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyEditForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {
198
199    LOG.info("Trying to persist pharmacy information.");
200
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp:170
Taint Flags: HTML_ENCODE, POORVALIDATION, PRIMARY_KEY, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
167    <span class="required">(Required)</span>
168    </span>
169    </label>
170    <input id="pharmacyPhoneNumber" class="editable pharmEditScreen" type="text" value="$
{ pharmacyInfo.pharmacyPhoneNumber}" size="20" maxlength="19" style="display: block; opacity:
1;" name="pharmacyPhoneNumber" title="Pharmacy's phone number">
171    </div>
172
173    <div id="PHARMACY_FAX_NUMBER" class="displayable" style="display: block; opacity: 1;">
```

Cross-Site Scripting: Poor Validation	Low
URL: /managePharm/updatePharmacy	
PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 180 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: updatePharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.updatePharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:197
URL: /managePharm/updatePharmacy

```
194   }
195
196   @RequestMapping(value = "/updatePharmacy", method = RequestMethod.POST)
197   public ModelAndView updatePharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyEditForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {
198
199   LOG.info("Trying to persist pharmacy information.");
200
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp:180
Taint Flags: HTML_ENCODE, POORVALIDATION, PRIMARY_KEY, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
177   <span class="required">(Required)</span>
178   </span>
179   </label>
180   <input id="pharmacyFaxNumber" class="editable pharmEditScreen" type="text" value="$
{ pharmacyInfo.pharmacyFaxNumber}" size="20" maxlength="19" style="display: block; opacity:
1;" name="pharmacyFaxNumber" title="Pharmacy's fax number">
181   </div>
182
```

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/updatePharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 180 (Cross-Site Scripting: Poor Validation)	Low

```
183    <div id="NCPDP_ID" class="displayable" style="display: block; opacity: 1;">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 190 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: updatePharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.updatePharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:197
URL: /managePharm/updatePharmacy

```
194    }
195
196    @RequestMapping(value = "/updatePharmacy", method = RequestMethod.POST)
197    public ModelAndView updatePharmacy(HttpServletRequest request,@Valid
       @ModelAttribute("pharmacyEditForm") PharmacyForm pharmacyForm, BindingResult
       bindingResult) throws IOException {
198
199    LOG.info("Trying to persist pharmacy information.");
200
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp:190
Taint Flags: HTML_ENCODE, POORVALIDATION, PRIMARY_KEY,
VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
187    <span class="required">(Required)</span>
188    </span>
189    </label>
```

Cross-Site Scripting: Poor Validation	Low

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 190 (Cross-Site Scripting: Poor Validation)	Low

190	`<input id="ncpdpId" class="editable pharmEditScreen" type="text" value="$` `{ pharmacyInfo.ncpdpId}" size="20" maxlength="7" style="display: block; opacity: 1;"` `name="ncpdpId" title="Seven-digit NCPDP Provider ID Number">`
191	`</div>`
192	
193	`<div id="NPI" class="displayable" style="display: block; opacity: 1;">`

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 207 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: updatePharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.updatePharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:197
URL: /managePharm/updatePharmacy

194	`}`
195	
196	`@RequestMapping(value = "/updatePharmacy", method = RequestMethod.POST)`
197	`public ModelAndView updatePharmacy(HttpServletRequest request,@Valid` `@ModelAttribute("pharmacyEditForm") PharmacyForm pharmacyForm, BindingResult` `bindingResult) throws IOException {`
198	
199	`LOG.info("Trying to persist pharmacy information.");`
200	

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp:207
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/updatePharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 207 (Cross-Site Scripting: Poor Validation)	Low

```
204   <label for="pharmacistPrefix">
205   Pharmacist Prefix:
206   </label>
207   <input id="pharmacistPrefix" class="editable pharmEditScreen" type="text" value="$
{ pharmacyInfo.pharmacistPrefix}" size="20" maxlength="35" style="display: block; opacity: 1;"
name="pharmacistPrefix" title="Pharmacist's prefix">
208   </div>
209
210   <div id="PHARMACIST_FIRST_NAME" class="displayable" style="display: block; opacity: 1;">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 214 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: updatePharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.updatePharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:197
URL: /managePharm/updatePharmacy

```
194   }
195
196   @RequestMapping(value = "/updatePharmacy", method = RequestMethod.POST)
197   public ModelAndView updatePharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyEditForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {
198
199   LOG.info("Trying to persist pharmacy information.");
200
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp:214

Cross-Site Scripting: Poor Validation	Low

| URL: /managePharm/updatePharmacy |

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 214 (Cross-Site Scripting: Poor Validation)	Low

Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

211	`<label for="pharmacistFirstName">`
212	`Pharmacist First Name:`
213	`</label>`
214	`<input id="pharmacistFirstName" class="editable pharmEditScreen" type="text" value="${ pharmacyInfo.pharmacistFirstName}" size="20" maxlength="35" style="display: block; opacity: 1;" name="pharmacistFirstName" title="Pharmacist's first name">`
215	`</div>`
216	
217	`<div id="PHARMACIST_MIDDLE_NAME" class="displayable" style="display: block; opacity: 1;">`

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 221 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: updatePharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.updatePharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:197
URL: /managePharm/updatePharmacy

194	`}`
195	
196	`@RequestMapping(value = "/updatePharmacy", method = RequestMethod.POST)`
197	`public ModelAndView updatePharmacy(HttpServletRequest request,@Valid @ModelAttribute("pharmacyEditForm") PharmacyForm pharmacyForm, BindingResult bindingResult) throws IOException {`
198	
199	`LOG.info("Trying to persist pharmacy information.");`
200	

Cross-Site Scripting: Poor Validation	Low

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 221 (Cross-Site Scripting: Poor Validation)	Low

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp:221
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

218	`<label for="pharmacistMiddleName">`
219	`Pharmacist Middle Name:`
220	`</label>`
221	`<input id="pharmacistMiddleName" class="editable pharmEditScreen" type="text" value="${ pharmacyInfo.pharmacistMiddleName}" size="20" maxlength="35" style="display: block; opacity: 1;" name="pharmacistMiddleName" title="Pharmacist's middle name">`
222	`</div>`
223	
224	`<div id="PHARMACIST_LAST_NAME" class="displayable" style="display: block; opacity: 1;">`

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 228 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis	Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: updatePharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.updatePharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:197
URL: /managePharm/updatePharmacy

194	`}`
195	
196	`@RequestMapping(value = "/updatePharmacy", method = RequestMethod.POST)`
197	`public ModelAndView updatePharmacy(HttpServletRequest request,@Valid @ModelAttribute("pharmacyEditForm") PharmacyForm pharmacyForm, BindingResult bindingResult) throws IOException {`
198	

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/updatePharmacy	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 228 (Cross-Site Scripting: Poor Validation)	Low

```
199   LOG.info("Trying to persist pharmacy information.");
200
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp:228
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
225   <label for="pharmacistLastName">
226   Pharmacist Last Name:
227   </label>
228   <input id="pharmacistLastName" class="editable pharmEditScreen" type="text" value="$
{ pharmacyInfo.pharmacistLastName}" size="20" maxlength="35" style="display: block; opacity:
1;" name="pharmacistLastName" title="Pharmacist's last name">
229   </div>
230
231   <div id="PHARMACIST_SUFFIX" class="displayable" style="display: block; opacity: 1;">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 235 (Cross-Site Scripting: Poor Validation)	Low

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis	Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:15:39 GMT-0500 (EST)
Spring MVC Framework is in use and providing protection. Spring is automatically embedding/include CSRF tokens and verifying CSRF tokens.

Source Details

Source: updatePharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.updatePharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:197
URL: /managePharm/updatePharmacy

```
194   }
195
196   @RequestMapping(value = "/updatePharmacy", method = RequestMethod.POST)
```

Cross-Site Scripting: Poor Validation	Low

URL: /managePharm/updatePharmacy

PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp, line 235 (Cross-Site Scripting: Poor Validation)	Low

197	`public ModelAndView updatePharmacy(HttpServletRequest request,@Valid @ModelAttribute("pharmacyEditForm") PharmacyForm pharmacyForm, BindingResult bindingResult) throws IOException {`
198	
199	`LOG.info("Trying to persist pharmacy information.");`
200	

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/editpharmacy.jsp:235
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

232	`<label for="pharmacistSuffix">`
233	`Pharmacist Suffix:`
234	`</label>`
235	`<input id="pharmacistSuffix" class="editable pharmEditScreen" type="text" value="${ pharmacyInfo.pharmacistSuffix}" size="20" maxlength="35" style="display: block; opacity: 1;" name="pharmacistSuffix" title="Pharmacist's suffix">`
236	`</div>`
237	
238	`<div id="EAndE_CHECK_ENABLED" class="displayable" style="display: block; opacity: 1;" title="Disable or enable enrollment and eligibility check.">`

Denial of Service (1 issue)

Abstract

An attacker could cause the program to crash or otherwise become unavailable to legitimate users.

Explanation

Attackers may be able to deny service to legitimate users by flooding the application with requests, but flooding attacks can often be defused at the network layer. More problematic are bugs that allow an attacker to overload the application using a small number of requests. Such bugs allow the attacker to specify the quantity of system resources their requests will consume or the duration for which they will use them. **Example 1:** The following code allows a user to specify the amount of time for which a thread will sleep. By specifying a large number, an attacker may tie up the thread indefinitely. With a small number of requests, the attacker may deplete the application's thread pool.

```
int usrSleepTime = Integer.parseInt(usrInput);
Thread.sleep(usrSleepTime);
```

Example 2: The following code reads a String from a zip file. Because it uses the `readLine()` method, it will read an unbounded amount of input. An attacker may take advantage of this code to cause an `OutOfMemoryException` or to consume a large amount of memory so that the program spends more time performing garbage collection or runs out of memory during some subsequent operation.

```
InputStream zipInput = zipFile.getInputStream(zipEntry);
Reader zipReader = new InputStreamReader(zipInput);
BufferedReader br = new BufferedReader(zipReader);
String line = br.readLine();
```

Recommendation

Validate user input to ensure that it will not cause inappropriate resource utilization. **Example 3:** The following code allows a user to specify the amount of time for which a thread will sleep just as in Example 1, but only if the value is within reasonable bounds.

```
int usrSleepTime = Integer.parseInt(usrInput);
if (usrSleepTime >= SLEEP_MIN &&
    usrSleepTime <= SLEEP_MAX) {
  Thread.sleep(usrSleepTime);
} else {
  throw new Exception("Invalid sleep duration");
}
}
```

Example 4: The following code reads a String from a zip file just as in Example 2, but the maximum string length it will read is `MAX_STR_LEN` characters.

```
InputStream zipInput = zipFile.getInputStream(zipEntry);
Reader zipReader = new InputStreamReader(zipInput);
BufferedReader br = new BufferedReader(zipReader);
StringBuffer sb = new StringBuffer();
int intC;
while ((intC = br.read()) != -1) {
  char c = (char) intC;
  if (c == '\n') {
    break;
  }
  if (sb.length() >= MAX_STR_LEN) {
    throw new Exception("input too long");
  }
  sb.append(c);
```
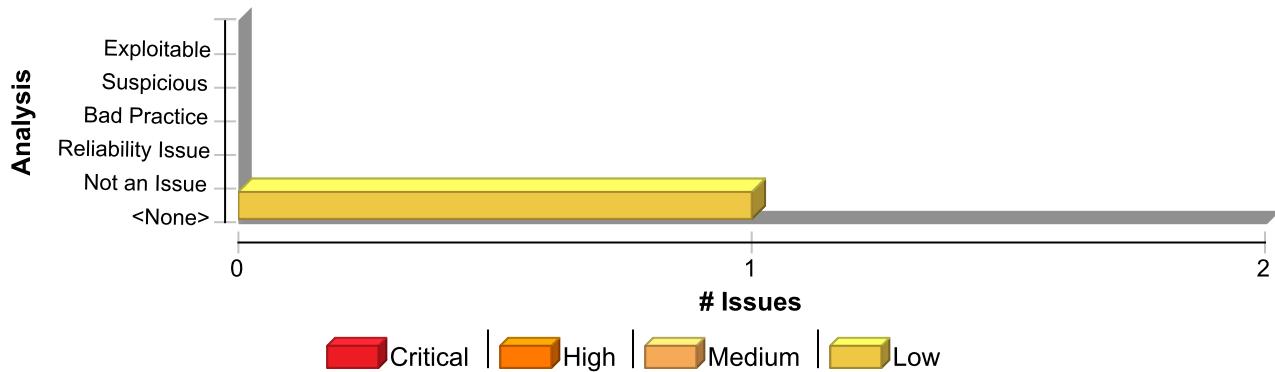
```
        }
        String line = sb.toString();
```

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Denial of Service	1	0	0	1
Total	**1**	**0**	**0**	**1**

Denial of Service	Low
Package: gov.va.med.pharmacy.jaxrs.tovista.dao.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/tovista/dao/impl/ VistaInboundRpc.java, line 80 (Denial of Service)	**Low**

Issue Details

Kingdom: Input Validation and Representation
Scan Engine: SCA (Semantic)

Sink Details

Sink: readLine()
Enclosing Method: sendMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/tovista/dao/impl/VistaInboundRpc.java:80
Taint Flags:

```
77   sb.setLength(0);
78   i = 0;
79   sb2.append("<SIG>");
80   while(null != (line = br.readLine())) {
81
82   if (line.trim().equalsIgnoreCase("<StructuredSIG>")){
83   addLine = false;
```

Hidden Field (11 issues)

Abstract

A hidden form field is used.

Explanation
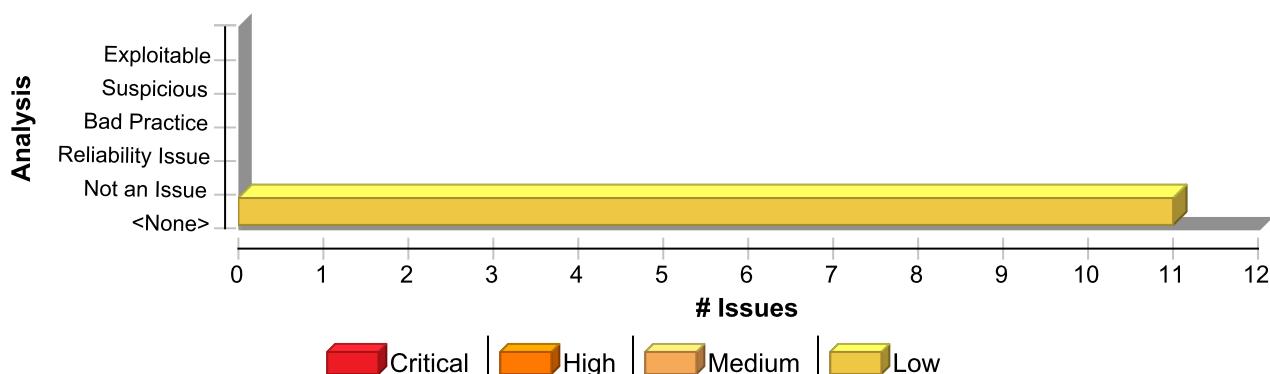
Programmers often trust the contents of hidden fields, expecting that users will not be able to view them or manipulate their contents. Attackers will violate these assumptions. They will examine the values written to hidden fields and alter them or replace the contents with attack data. **Example:** An tag of type `hidden` indicates the use of a hidden field.

```
<input type="hidden">
```

If hidden fields carry sensitive information, this information will be cached the same way the rest of the page is cached. This can lead to sensitive information being tucked away in the browser cache without the user's knowledge.

Recommendation

Expect that attackers will study and decode all uses of hidden fields in the application. Treat hidden fields as untrusted input. Don't store information in hidden fields if the information should not be cached along with the rest of the page.

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Hidden Field	11	0	0	11
Total	**11**	**0**	**0**	**11**

Hidden Field	Low
Package: .src.main.webapp.WEB-INF	
PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp, line 248 (Hidden Field)	**Low**
Issue Details	

Kingdom: Encapsulation
Scan Engine: SCA (Content)

Hidden Field		Low

Package: .src.main.webapp.WEB-INF		

PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp, line 248 (Hidden Field)	Low

Sink Details

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp:248
Taint Flags:

```
245   <option value="${item.id}">${item.label}</option>
246   </c:forEach>
247   </select>
248   <input type="hidden" id="stationIdTempIdentifier" value="">
249   </div>
250
251   <%-- Hidden multiselect for compare end --%>
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 1210 (Hidden Field)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Content)

Sink Details

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp:1210
Taint Flags:

```
1207   </div>
1208   </div>
1209   </div>
1210   <input id="trackMsgIdHidden" name="trackMsgIdHidden" type="hidden" value=""
       style="display: none;"></input>
1211   <input id="trackHubMsgIdHidden" name="trackHubMsgIdHidden" type="hidden" value=""
       style="display: none;"></input>
1212   <input id="trackMsgTypeHidden" name="trackMsgTypeHidden" type="hidden" value=""
       style="display: none;"></input>
1213   <input id="trackParentMsgStatusHidden" name="trackParentMsgStatusHidden" type="hidden"
       value="" style="display: none;"></input>
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 1211 (Hidden Field)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Content)

Sink Details

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp:1211
Taint Flags:

```
1208   </div>
1209   </div>
1210   <input id="trackMsgIdHidden" name="trackMsgIdHidden" type="hidden" value=""
```

Hidden Field   **Low**

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 1211 (Hidden Field) **Low**

```
       style="display: none;"></input>
1211   <input id="trackHubMsgIdHidden" name="trackHubMsgIdHidden" type="hidden" value=""
       style="display: none;"></input>
1212   <input id="trackMsgTypeHidden" name="trackMsgTypeHidden" type="hidden" value=""
       style="display: none;"></input>
1213   <input id="trackParentMsgStatusHidden" name="trackParentMsgStatusHidden" type="hidden"
       value="" style="display: none;"></input>
1214   </div><%--result1 div end --%>
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 1212 (Hidden Field) **Low**

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Content)

Sink Details

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp:1212
Taint Flags:

```
1209   </div>
1210   <input id="trackMsgIdHidden" name="trackMsgIdHidden" type="hidden" value=""
       style="display: none;"></input>
1211   <input id="trackHubMsgIdHidden" name="trackHubMsgIdHidden" type="hidden" value=""
       style="display: none;"></input>
1212   <input id="trackMsgTypeHidden" name="trackMsgTypeHidden" type="hidden" value=""
       style="display: none;"></input>
1213   <input id="trackParentMsgStatusHidden" name="trackParentMsgStatusHidden" type="hidden"
       value="" style="display: none;"></input>
1214   </div><%--result1 div end --%>
1215
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 1213 (Hidden Field) **Low**

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Content)

Sink Details

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp:1213
Taint Flags:

```
1210   <input id="trackMsgIdHidden" name="trackMsgIdHidden" type="hidden" value=""
       style="display: none;"></input>
1211   <input id="trackHubMsgIdHidden" name="trackHubMsgIdHidden" type="hidden" value=""
       style="display: none;"></input>
1212   <input id="trackMsgTypeHidden" name="trackMsgTypeHidden" type="hidden" value=""
       style="display: none;"></input>
1213   <input id="trackParentMsgStatusHidden" name="trackParentMsgStatusHidden" type="hidden"
       value="" style="display: none;"></input>
```

Hidden Field	Low

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 1213 (Hidden Field)	Low

```
1214   </div><%--result1 div end --%>
1215
1216
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp, line 31 (Hidden Field)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Content)

Sink Details

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp:31
Taint Flags:

```
28   <div id="successMessages" class="warning">${data.successMessage} </div>
29   </c:if>
30
31   <form:hidden path="modifiedIds" value="" />
32   <form:hidden path="modifiedFields" value="" />
33   <form:hidden path="enableDisableRecords" value="" />
34   <form:hidden path="stationIdsSelected" value="" />
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp, line 32 (Hidden Field)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Content)

Sink Details

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp:32
Taint Flags:

```
29   </c:if>
30
31   <form:hidden path="modifiedIds" value="" />
32   <form:hidden path="modifiedFields" value="" />
33   <form:hidden path="enableDisableRecords" value="" />
34   <form:hidden path="stationIdsSelected" value="" />
35   <form:hidden path="modifiedStationIds" value="" />
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp, line 33 (Hidden Field)	Low

Issue Details

Kingdom: Encapsulation

Hidden Field	Low

Package: .src.main.webapp.WEB-INF	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp, line 33 (Hidden Field)	Low

Scan Engine: SCA (Content)

Sink Details

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp:33
Taint Flags:

```
30
31   <form:hidden path="modifiedIds" value="" />
32   <form:hidden path="modifiedFields" value="" />
33   <form:hidden path="enableDisableRecords" value="" />
34   <form:hidden path="stationIdsSelected" value="" />
35   <form:hidden path="modifiedStationIds" value="" />
36
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp, line 34 (Hidden Field)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Content)

Sink Details

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp:34
Taint Flags:

```
31   <form:hidden path="modifiedIds" value="" />
32   <form:hidden path="modifiedFields" value="" />
33   <form:hidden path="enableDisableRecords" value="" />
34   <form:hidden path="stationIdsSelected" value="" />
35   <form:hidden path="modifiedStationIds" value="" />
36
37   <div class="divUserMgmtTable" tabindex="0" role="table" aria-label="Users" aria-
describedby="current users in the system.">
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp, line 35 (Hidden Field)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Content)

Sink Details

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp:35
Taint Flags:

```
32   <form:hidden path="modifiedFields" value="" />
```

Hidden Field	Low

Package: .src.main.webapp.WEB-INF	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/manageusers.jsp, line 35 (Hidden Field)	Low

33	`<form:hidden path="enableDisableRecords" value="" />`
34	`<form:hidden path="stationIdsSelected" value="" />`
35	`<form:hidden path="modifiedStationIds" value="" />`
36	
37	`<div class="divUserMgmtTable" tabindex="0" role="table" aria-label="Users" aria-describedby="current users in the system.">`
38	`<div class="divUserMgmtTableBody">`

PS_INB_ERX_UI/src/main/webapp/WEB-INF/landing.jsp, line 50 (Hidden Field)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Content)

Sink Details

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/landing.jsp:50
Taint Flags:

47	`<p>${ sessionScope.loginErrorMessage}</p>`
48	`</div>`
49	
50	`<input type="hidden" name="${_csrf.parameterName}" value="${_csrf.token}"/>`
51	`</form>`
52	`</div>`
53	` `

J2EE Misconfiguration: Excessive Session Timeout (1 issue)

Abstract

An overly long session timeout gives attackers more time to potentially compromise user accounts.

Explanation

The longer a session stays open, the larger the window of opportunity an attacker has to compromise user accounts. While a session remains active, an attacker may be able to brute-force a user's password, crack a user's wireless encryption key, or commandeer a session from an open browser. Longer session timeouts can also prevent memory from being released and eventually result in a denial of service if a sufficiently large number of sessions are created. **Example 1:** If the session timeout is zero or less than zero, the session never expires. The following example shows a session timeout set to -1, which will cause the session to remain active indefinitely.

```
<session-config>
    <session-timeout>-1</session-timeout>
</session-config>
```
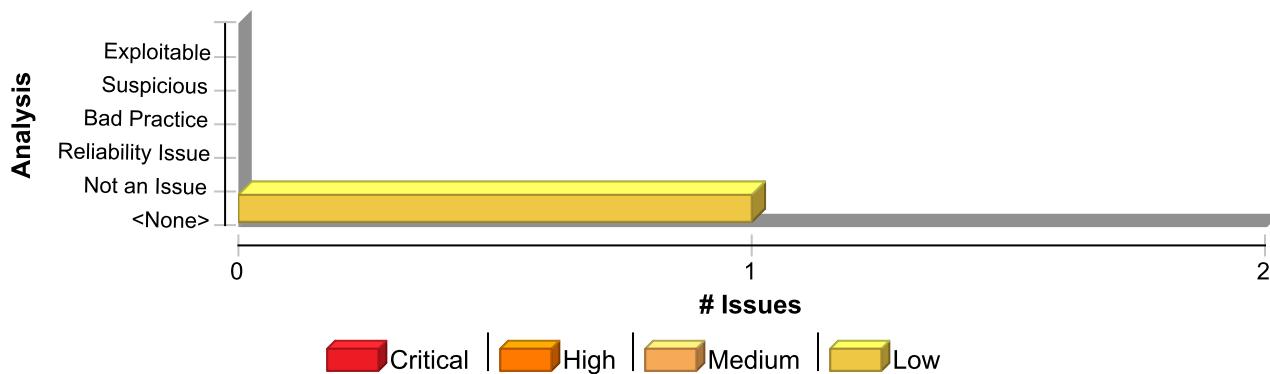
The tag defines the default session timeout interval for all sessions in the web application. If the tag is missing, it is left to the container to set the default timeout. This category was derived from the Cigital Java Rulepack. http://www.cigital.com/

Recommendation

Set a session timeout that is 30 minutes or less, which both allows users to interact with the application over a period of time and provides a reasonable bound for the window of attack. **Example 2:** The following example sets the session timeout to 20 minutes.

```
<session-config>
  <session-timeout>20</session-timeout>
</session-config>
```

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
J2EE Misconfiguration: Excessive Session Timeout	1	0	0	1
Total	**1**	**0**	**0**	**1**

J2EE Misconfiguration: Excessive Session Timeout

Low

Package: .src.main.webapp.WEB-INF

PS_INB_ERX_UI/src/main/webapp/WEB-INF/web.xml, line 103 (J2EE Misconfiguration: Excessive Session Timeout)

Low

Issue Details

Kingdom: Environment
Scan Engine: SCA (Configuration)

Sink Details

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/web.xml:103
Taint Flags:

```
100   </servlet-mapping>
101
102   <!-- Let javascript timeout on the UI first which is 30 minutes. -->
103   <session-config>
104   <!-- Defect 767939 set now in SessionExtensionController
105   <session-timeout>31</session-timeout>
106   -->
```

Missing Check against Null (11 issues)

Abstract

The program can dereference a null pointer because it does not check the return value of a function that might return null.

Explanation

Just about every serious attack on a software system begins with the violation of a programmer's assumptions. After the attack, the programmer's assumptions seem flimsy and poorly founded, but before an attack many programmers would defend their assumptions well past the end of their lunch break. Two dubious assumptions that are easy to spot in code are "this function call can never fail" and "it doesn't matter if this function call fails". When a programmer ignores the return value from a function, they implicitly state that they are operating under one of these assumptions. **Example 1:** The following code does not check to see if the string returned by `getParameter()` is `null` before calling the member function `compareTo()`, potentially causing a null dereference.

```
String itemName = request.getParameter(ITEM_NAME);
    if (itemName.compareTo(IMPORTANT_ITEM)) {
        ...
    }
    ...
```

Example 2:. The following code shows a system property that is set to `null` and later dereferenced by a programmer who mistakenly assumes it will always be defined.

```
System.clearProperty("os.name");
...
String os = System.getProperty("os.name");
if (os.equalsIgnoreCase("Windows 95") )
    System.out.println("Not supported");
```

The traditional defense of this coding error is: "I know the requested value will always exist because.... If it does not exist, the program cannot perform the desired behavior so it doesn't matter whether I handle the error or simply allow the program to die dereferencing a null value." But attackers are skilled at finding unexpected paths through programs, particularly when exceptions are involved.
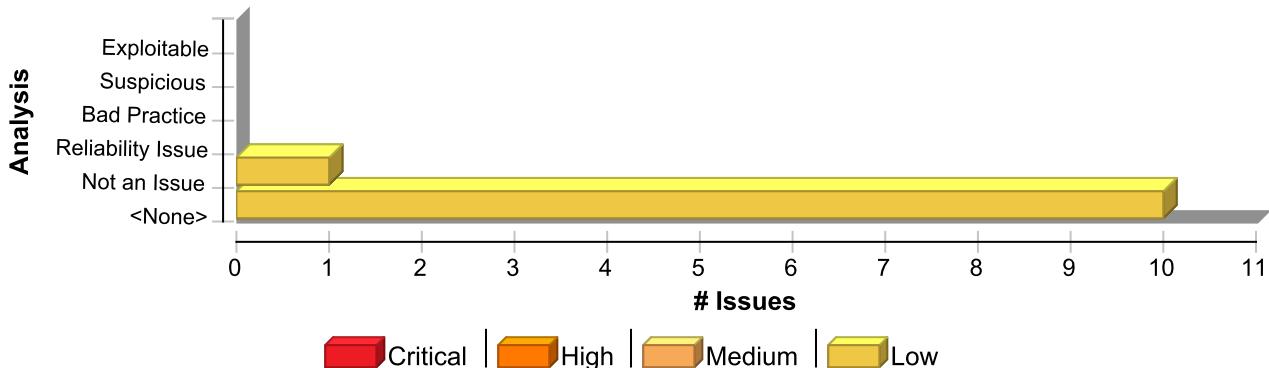
Recommendation

If a function can return an error code or any other evidence of its success or failure, always check for the error condition, even if there is no obvious way for it to occur. In addition to preventing security errors, many initially mysterious bugs have eventually led back to a failed method call with an unchecked return value. Create an easy to use and standard way for dealing with failure in your application. If error handling is straightforward, programmers will be less inclined to omit it. One approach to standardized error handling is to write wrappers around commonly-used functions that check and handle error conditions without additional programmer intervention. When wrappers are implemented and adopted, the use of non-wrapped equivalents can be prohibited and enforced by using custom rules. **Example 3:** The following code implements a wrapper around `getParameter()` that checks the return value of `getParameter()` against `null` and uses a default value if the requested parameter is not defined.

```
String safeGetParameter (HttpRequest request, String name)
{
    String value = request.getParameter(name);
    if (value == null) {
        return getDefaultValue(name)
    }
    return value;
}
```

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Missing Check against Null	11	0	0	11
Total	**11**	**0**	**0**	**11**

Missing Check against Null	Low

Package: gov.va.med.pharmacy.jaxrs.eAnde.services.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 152 (Missing Check against Null)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Control Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandlJ: Tue Mar 13 2018 14:42:45 GMT-0400 (EDT)
Line 150 is checking for a null getClassLoader()

Sink Details

Sink: classloader = getClassLoader() : Class.getClassLoader may return NULL
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/EESummary_Client.java: 152
Taint Flags:

```
149  private void setupTLS(EeSummaryPort port, Properties properties) throws
FileNotFoundException, IOException, GeneralSecurityException {
150
151  if (this.getClass().getClassLoader() != null){
152  ClassLoader classloader = this.getClass().getClassLoader();
153  File file = new
File(classloader.getResource(properties.getProperty(KEYSTORE_FILE_NAME_PROPERTY).trim()).getFile
154
155  HTTPConduit httpConduit = (HTTPConduit) ClientProxy.getClient(port).getConduit();
```

Missing Check against Null	Low

Package: gov.va.med.pharmacy.jaxrs.eAnde.services.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 67 (Missing Check against Null)	**Low**

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Control Flow)

Sink Details

Sink: getClassLoader() : Class.getClassLoader may return NULL
Enclosing Method: returnResponse()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/EESummary_Client.java: 67
Taint Flags:

```
64
65   InputStream inputStream = null;
66   try{
67   inputStream =
this.getClass().getClassLoader().getResourceAsStream(WSCLIENTS_PROPERTIES_FILE);
68   if(null != inputStream){
69   properties.load(inputStream);
70   } else
```

Package: gov.va.med.pharmacy.jaxrs.inboundncpdpmessage.service.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 242 (Missing Check against Null)	**Low**

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Control Flow)

Sink Details

Sink: getClassLoader() : Class.getClassLoader may return NULL
Enclosing Method: getInboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/inboundncpdpmessage/service/impl/ InboundNCPDPMessageServiceImpl.java:242
Taint Flags:

```
239   SchemaFactory schemaFactory =
SchemaFactory.newInstance(XMLConstants.W3C_XML_SCHEMA_NS_URI);
240
241   // fortify get inputstream and then close it
242   inputStream =
this.getClass().getClassLoader().getResourceAsStream(VA_EMD_NCPDP_SCRIPT_10_6_XSD);
243
244   xsdStreamSource = new StreamSource(inputStream);
245
```

Missing Check against Null	Low

Package: gov.va.med.pharmacy.jaxrs.mvi.dao.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 732 (Missing Check against Null)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Control Flow)

Sink Details

Sink: classloader = getClassLoader() : Class.getClassLoader may return NULL
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:732
Taint Flags:

```
729  */
730  private void setupTLS(VAIdMPort port, Properties properties) throws
FileNotFoundException, IOException, GeneralSecurityException {
731
732  ClassLoader classloader = this.getClass().getClassLoader();
733
734  File file = new
File(classloader.getResource(properties.getProperty(KEYSTORE_FILE_NAME_PROPERTY).trim()).getFile
735  HTTPConduit httpConduit = (HTTPConduit) ClientProxy.getClient(port).getConduit();
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 161 (Missing Check against Null)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Control Flow)

Sink Details

Sink: getClassLoader() : Class.getClassLoader may return NULL
Enclosing Method: getMVIData()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:161
Taint Flags:

```
158
159  InputStream inputStream = null;
160  try {
161  inputStream = this.getClass().getClassLoader()
162  .getResourceAsStream(WSCLIENTS_PROPERTIES_FILE);
163  if (null != inputStream) {
164  properties.load(inputStream);
```

Package: gov.va.med.pharmacy.jaxrs.outboundncpdpmessage.service.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 122 (Missing Check against Null)	Low

Issue Details

Missing Check against Null	Low

Package: gov.va.med.pharmacy.jaxrs.outboundncpdpmessage.service.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 122 (Missing Check against Null)	Low

Kingdom: API Abuse
Scan Engine: SCA (Control Flow)

Sink Details

Sink: getClassLoader() : Class.getClassLoader may return NULL
Enclosing Method: sendOutboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/
OutboundNCPDPMessageServiceImpl.java:122
Taint Flags:

```
119   InputStream inputStream = null;
120   try
121   {
122   inputStream =
this.getClass().getClassLoader().getResourceAsStream(WSCLIENTS_PROPERTIES_FILE);
123
124   if (null != inputStream) {
125   properties.load(inputStream);
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 225 (Missing Check against Null)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Control Flow)

Sink Details

Sink: classloader = getClassLoader() : Class.getClassLoader may return NULL
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/
OutboundNCPDPMessageServiceImpl.java:225
Taint Flags:

```
222   */
223   private void setupTLS(WebClient client, Properties properties) throws
FileNotFoundException, IOException, GeneralSecurityException {
224
225   ClassLoader classloader = this.getClass().getClassLoader();
226
227   File file = new
File(classloader.getResource(properties.getProperty(KEYSTORE_FILE_NAME_PROPERTY).trim()).getFile
228
```

Missing Check against Null	Low

Package: gov.va.med.pharmacy.utility	

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/ VistaLinkConnectionUtility.java, line 73 (Missing Check against Null)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Control Flow)

Sink Details

Sink: getClassLoader() : Class.getClassLoader may return NULL
Enclosing Method: sendRequest()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/VistaLinkConnectionUtility.java:73
Taint Flags:

```
70   InputStream inputStream = null;
71   try{
72
73   inputStream =
this.getClass().getClassLoader().getResourceAsStream(VISTALINK_PROPERTIES_FILE);
74
75   if(null!=inputStream){
76   properties.load(inputStream);
```

Package: gov.va.med.pharmacy.web.filter	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/filter/ XSSRequestWrapper.java, line 436 (Missing Check against Null)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Control Flow)

Sink Details

Sink: getParameterMap() : XSSRequestWrapper.getParameterMap may return NULL
Enclosing Method: getParameter()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/filter/XSSRequestWrapper.java:436
Taint Flags:

```
433   public String getParameter(String name) {
434   String parameter = null;
435
436   String[] vals = getParameterMap().get(name);
437
438   if (vals != null && vals.length > 0) {
439   parameter = vals[0];
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/filter/ XSSRequestWrapper.java, line 414 (Missing Check against Null)	Low

Issue Details

Kingdom: API Abuse

Missing Check against Null	Low

Package: gov.va.med.pharmacy.web.filter	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/filter/ XSSRequestWrapper.java, line 414 (Missing Check against Null)	Low

Scan Engine: SCA (Control Flow)

Sink Details

Sink: getParameterMap() : XSSRequestWrapper.getParameterMap may return NULL
Enclosing Method: getParameterValues()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/filter/XSSRequestWrapper.java:414
Taint Flags:

411	
412	`@Override`
413	`public String[] getParameterValues(String name) {`
414	`return getParameterMap().get(name);`
415	`}`
416	
417	`@Override`

Package: gov.va.med.pharmacy.wsclients.eAnde	

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ ClientPasswordCallback.java, line 31 (Missing Check against Null)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Control Flow)

Sink Details

Sink: getClassLoader() : Class.getClassLoader may return NULL
Enclosing Method: handle()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ClientPasswordCallback.java:31
Taint Flags:

28	
29	`String password = null;`
30	
31	`inputStream = this.getClass().getClassLoader().getResourceAsStream(WSCLIENTS_PROPERTIES_FILE);`
32	
33	`try{`
34	`if (null != inputStream) {`

Obsolete: Deprecated by ESAPI (77 issues)

Abstract

ESAPI offers a safer version of this method.

Explanation
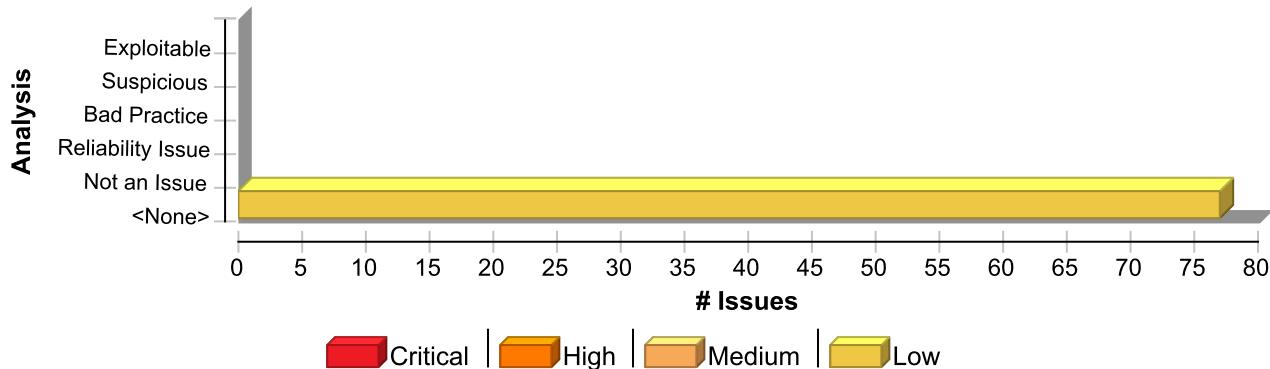
The ESAPI secure coding guidelines contain a list of banned APIs for which a safer alternative is available in ESAPI. **The list of banned and substitute API's: Banned 001** System.out.println() **Banned 002** Throwable.printStackTrace() **Banned 003** Runtime.exec() **Banned 004** Session.getId() **Banned 005** ServletRequest.getUserPrincipal() **Banned 006** ServletRequest.isUserInRole() **Banned 007** Session.invalidate() **Banned 008** Math.Random.* **Banned 009** File.createTempFile() **Banned 010** ServletResponse.setContentType() **Banned 011** ServletResponse.sendRedirect() **Banned 012** RequestDispatcher.forward() **Banned 013** ServletResponse.addHeader() **Banned 014** ServletResponse.addCookie() **Banned 015** ServletRequest.isSecure() **Banned 016** Properties.* **Banned 017** ServletContext.log() **Banned 018** java.security and javax.crypto **Banned 019** java.net.URLEncoder/ Decoder **Banned 021** ServletResponse.encodeURL **Banned 022** ServletResponse.encodeRedirectURL **Banned 023** javax.servlet.ServletInputStream.readLine

Recommendation

Replace banned API calls with the recommended safer version provided by ESAPI. **The list of banned and replacement API's: Banned 001** System.out.println() ESAPI Replacement: Logger.* **Banned 002** Throwable.printStackTrace() ESAPI Replacement: Logger.* **Banned 003** Runtime.exec() ESAPI Replacement: Executor.executeSystemCommand() **Banned 004** Session.getId() ESAPI Replacement: Randomizer.getRandom* (better not to use at all) **Banned 005** ServletRequest.getUserPrincipal() ESAPI Replacement: Authenticator.getCurrentUser() **Banned 006** ServletRequest.isUserInRole() ESAPI Replacement: AccessController.isAuthorized*() **Banned 007** Session.invalidate() ESAPI Replacement: Authenticator.logout() **Banned 008** Math.Random.* ESAPI Replacement: Randomizer.* **Banned 009** File.createTempFile() ESAPI Replacement: Randomizer.getRandomFilename() **Banned 010** ServletResponse.setContentType() ESAPI Replacement: HTTPUtilities.setContentType() **Banned 011** ServletResponse.sendRedirect() ESAPI Replacement: HTTPUtilities.sendRedirect() **Banned 012** RequestDispatcher.forward() ESAPI Replacement: HTTPUtilities.sendForward() **Banned 013** ServletResponse.addHeader() ESAPI Replacement: HTTPUtilities.setHeader()/addHeader() **Banned 014** ServletResponse.addCookie() ESAPI Replacement: HTTPUtilities.addCookie() **Banned 015** ServletRequest.isSecure() ESAPI Replacement: HTTPUtilties.assertSecureChannel() **Banned 016** Properties.* ESAPI Replacement: EncryptedProperties.* **Banned 017** ServletContext.log() ESAPI Replacement: Logger.* **Banned 018** java.security and javax.crypto ESAPI Replacement: Encryptor.* **Banned 019** java.net.URLEncoder/Decoder ESAPI Replacement: Encoder.encodeForURL()/ decodeForURL() **Banned 021** ServletResponse.encodeURL ESAPI Replacement: Encoder.encodeForURL()/decodeForURL() **Banned 022** ServletResponse.encodeRedirectURL ESAPI Replacement: Encoder.encodeForURL()/decodeForURL() ESAPI Replacement: HTTPUtilities.sendRedirect() **Banned 023** javax.servlet.ServletInputStream.readLine ESAPI Replacement: Validator.safeReadLine()

Issue Summary

Analysis (y-axis): Exploitable, Suspicious, Bad Practice, Reliability Issue, Not an Issue, <None>

Issues (x-axis): 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

Legend: ■ Critical ■ High ■ Medium ■ Low

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Obsolete: Deprecated by ESAPI	77	0	0	77
Total	**77**	**0**	**0**	**77**

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.jaxrs.admin.dao.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/admin/dao/impl/ AppInfoDaoImpl.java, line 34 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: getProperty()
Enclosing Method: getAppInfo()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/admin/dao/impl/AppInfoDaoImpl.java:34
Taint Flags:

```
31   AppInfoResponse appInfoResponseObj = new AppInfoResponse();
32   try {
33   if(buildProperties!=null){
34   String buildInfo = buildProperties.getProperty("buildinformation");
35   appInfoResponseObj.setAppVersion(buildInfo);}
36   } catch (Exception e) {
37   LOG.error("Error in AppInfoDaoImpl:"+e.getMessage());
```

Package: gov.va.med.pharmacy.jaxrs.eAnde.services.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 153 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.jaxrs.eAnde.services.impl

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 153 (Obsolete: Deprecated by ESAPI)	Low

Sink: getProperty()
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/EESummary_Client.java:
153
Taint Flags:

```
150
151  if (this.getClass().getClassLoader() != null){
152  ClassLoader classloader = this.getClass().getClassLoader();
153  File file = new
File(classloader.getResource(properties.getProperty(KEYSTORE_FILE_NAME_PROPERTY).trim()).getFile
154
155  HTTPConduit httpConduit = (HTTPConduit) ClientProxy.getClient(port).getConduit();
156
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 80 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: getProperty()
Enclosing Method: returnResponse()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/EESummary_Client.java:
80
Taint Flags:

```
77  }
78
79
80  eAndeEndpoint = properties.getProperty(E_AND_E_CLIENT_ENDPOINT).trim();
81
82  username = properties.getProperty(E_AND_E_USERNAME).trim();
83
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 59 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: Properties()
Enclosing Method: returnResponse()

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.jaxrs.eAnde.services.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 59 (Obsolete: Deprecated by ESAPI)	Low

File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/EESummary_Client.java: 59
Taint Flags:

```
56
57   public getEESummaryResponse returnResponse(String key) throws java.lang.Exception {
58
59   Properties properties = new Properties();
60
61   String username = null;
62   String eAndeEndpoint = null;
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 82 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: getProperty()
Enclosing Method: returnResponse()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/EESummary_Client.java: 82
Taint Flags:

```
79
80   eAndeEndpoint = properties.getProperty(E_AND_E_CLIENT_ENDPOINT).trim();
81
82   username = properties.getProperty(E_AND_E_USERNAME).trim();
83
84   eAndeRequestName = properties.getProperty(E_AND_E_REQUEST_NAME).trim();
85
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 159 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: getProperty()
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/EESummary_Client.java: 159
Taint Flags:

Obsolete: Deprecated by ESAPI	Low

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 159 (Obsolete: Deprecated by ESAPI)	Low

```
156
157   FileInputStream fileIn2 = null;
158   TLSClientParameters tlsCP = new TLSClientParameters();
159   String keyPasswd = properties.getProperty(KEYSTORE_PASSWD_PROPERTY).trim();
160
161   try {
162   fileIn2 = new FileInputStream(file);
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 69 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: load()
Enclosing Method: returnResponse()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/EESummary_Client.java: 69
Taint Flags:

```
66   try{
67   inputStream =
this.getClass().getClassLoader().getResourceAsStream(WSCLIENTS_PROPERTIES_FILE);
68   if(null != inputStream){
69   properties.load(inputStream);
70   } else
71   {
72   LOG.error("Property file not loaded/found.");
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 84 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: getProperty()
Enclosing Method: returnResponse()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/EESummary_Client.java: 84
Taint Flags:

```
81
82   username = properties.getProperty(E_AND_E_USERNAME).trim();
```

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.jaxrs.eAnde.services.impl

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 84 (Obsolete: Deprecated by ESAPI)	Low

```
83
84   eAndeRequestName = properties.getProperty(E_AND_E_REQUEST_NAME).trim();
85
86   String url = "";
87
```

Package: gov.va.med.pharmacy.jaxrs.inboundncpdpmessage.service.impl

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 190 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: current()
Enclosing Method: getInboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/inboundncpdpmessage/service/impl/ InboundNCPDPMessageServiceImpl.java:190
Taint Flags:

```
187
188
189   // 9 digit random number.
190   int randomNumber = ThreadLocalRandom.current().nextInt(1, 100000000 + 1);
191
192   newMessageID = new StringBuffer(dateString).append(randomNumber).toString();
193
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 190 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: nextInt()
Enclosing Method: getInboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/inboundncpdpmessage/service/impl/ InboundNCPDPMessageServiceImpl.java:190
Taint Flags:

```
187
```

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.jaxrs.inboundncpdpmessage.service.impl

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 190 (Obsolete: Deprecated by ESAPI)	Low

```
188
189  // 9 digit random number.
190  int randomNumber = ThreadLocalRandom.current().nextInt(1, 100000000 + 1);
191
192  newMessageID = new StringBuffer(dateString).append(randomNumber).toString();
193
```

Package: gov.va.med.pharmacy.jaxrs.mvi.dao.impl

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 164 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: load()
Enclosing Method: getMVIData()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:164
Taint Flags:

```
161  inputStream = this.getClass().getClassLoader()
162  .getResourceAsStream(WSCLIENTS_PROPERTIES_FILE);
163  if (null != inputStream) {
164  properties.load(inputStream);
165  }
166  } finally {
167  if (null != inputStream) {
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 157 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: Properties()
Enclosing Method: getMVIData()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:157
Taint Flags:

```
154
155  // System.setProperty("javax.net.debug", "ssl, handshake");
156
```

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.jaxrs.mvi.dao.impl

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 157 (Obsolete: Deprecated by ESAPI)	Low

```
157   Properties properties = new Properties();
158
159   InputStream inputStream = null;
160   try {
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 744 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: getProperty()
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:744
Taint Flags:

```
741   FileInputStream fileIn1 = null;
742   FileInputStream fileIn2 = null;
743   TLSClientParameters tlsCP = new TLSClientParameters();
744   String keyPasswd = properties.getProperty(KEYSTORE_PASSWD_PROPERTY).trim();
745   KeyStore keyStore = KeyStore.getInstance(KEYSTORE_FILE_TYPE);
746
747   try {
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 734 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: getProperty()
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:734
Taint Flags:

```
731
732   ClassLoader classloader = this.getClass().getClassLoader();
733
734   File file = new
File(classloader.getResource(properties.getProperty(KEYSTORE_FILE_NAME_PROPERTY).trim()).getFile
735   HTTPConduit httpConduit = (HTTPConduit) ClientProxy.getClient(port).getConduit();
736
737   // We do two FileInpustreams otherwise it gives EOFException as the file
```

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.jaxrs.mvi.dao.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 734 (Obsolete: Deprecated by ESAPI)	Low

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 191 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: getProperty()
Enclosing Method: getMVIData()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:191
Taint Flags:

```
188   VAIdMPort port = ss.getVAIdMPort();
189
190
191   mviClientEndpoint = properties.getProperty(MVI_CLIENT_ENDPOINT_PROPERTY).trim(); // trim
      the value for any potential whitespace.
192   // Secure Dev
193   ((BindingProvider)
      port).getRequestContext().put(BindingProvider.ENDPOINT_ADDRESS_PROPERTY, mviClientEndpoint);
194
```

Package: gov.va.med.pharmacy.jaxrs.outboundncpdpmessage.service.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 117 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: Properties()
Enclosing Method: sendOutboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java:117
Taint Flags:

```
114
115   // TODO - Asynchronous invocation with future......
116
117   Properties properties = new Properties();
118
119   InputStream inputStream = null;
```

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.jaxrs.outboundncpdpmessage.service.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 117 (Obsolete: Deprecated by ESAPI)	Low

```
120   try
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 248 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: getProperty()
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java:248
Taint Flags:

```
245   FileInputStream fileIn1 = null;
246   FileInputStream fileIn2 = null;
247   TLSClientParameters tlsCP = new TLSClientParameters();
248   String keyPasswd = properties.getProperty(KEYSTORE_PASSWD_PROPERTY).trim();
249   KeyStore keyStore = KeyStore.getInstance(KEYSTORE_FILE_TYPE);
250
251   try {
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 227 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: getProperty()
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java:227
Taint Flags:

```
224
225   ClassLoader classloader = this.getClass().getClassLoader();
226
```

Obsolete: Deprecated by ESAPI	Low
Package: gov.va.med.pharmacy.jaxrs.outboundncpdpmessage.service.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 227 (Obsolete: Deprecated by ESAPI)	Low

```
227   File file = new
File(classloader.getResource(properties.getProperty(KEYSTORE_FILE_NAME_PROPERTY).trim())).getFile
228
229   HTTPConduit httpConduit = WebClient.getConfig(client).getHttpConduit();
230
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 135 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: getProperty()
Enclosing Method: sendOutboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/
OutboundNCPDPMessageServiceImpl.java:135
Taint Flags:

```
132   }
133   }
134
135   String dasOutboundEndpoint = properties.getProperty(DAS_OUTBOUND_ENDPOINT).trim();
136
137   WebClient webclient = WebClient.create(dasOutboundEndpoint);
138
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 125 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: load()
Enclosing Method: sendOutboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/
OutboundNCPDPMessageServiceImpl.java:125
Taint Flags:

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.jaxrs.outboundncpdpmessage.service.impl

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 125 (Obsolete: Deprecated by ESAPI)	Low

```
122   inputStream =
this.getClass().getClassLoader().getResourceAsStream(WSCLIENTS_PROPERTIES_FILE);
123
124   if (null != inputStream) {
125   properties.load(inputStream);
126   }
127   }
128   finally
```

Package: gov.va.med.pharmacy.jaxrs.provider.dao.impl

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/provider/dao/impl/ ProviderSearchDaoImpl.java, line 29 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: lookupProvider()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/provider/dao/impl/ ProviderSearchDaoImpl.java:29
Taint Flags:

```
26
27   } catch (Exception e) {
28   LOG.error("Error in ProviderSearchDaoImpl:"+e.getMessage());
29   e.printStackTrace();
30   throw new Exception(e); // let the exception go all the way up.
31   }
32
```

Package: gov.va.med.pharmacy.jaxrs.tovista.dao.impl

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/tovista/dao/impl/ VistaInboundDaoImpl.java, line 35 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: sendMessage()

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.jaxrs.tovista.dao.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/tovista/dao/impl/ VistaInboundDaoImpl.java, line 35 (Obsolete: Deprecated by ESAPI)	Low

File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/tovista/dao/impl/VistaInboundDaoImpl.java:35
Taint Flags:

```
32   sendResults = vistaInboundRpc.sendMessage(vistaInboundObj);
33
34   } catch (Exception e) {
35   e.printStackTrace();
36   throw new IOException(e); // let the exception go all the way up.
37   }
38
```

Package: gov.va.med.pharmacy.jaxrs.vistaoutboundmsg.service.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/vistaoutboundmsg/ service/impl/VistaOutboundMsgImpl.java, line 64 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: println
Enclosing Method: persistMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/vistaoutboundmsg/service/impl/ VistaOutboundMsgImpl.java:64
Taint Flags:

```
61
62   long outboundMsgId = outboundNcpdpMsgService.saveOutboundMsg(outboundMsg);
63
64   System.out.println("------------------ Return id:"+outboundMsgId);
65
66   wsResponse.setErrorMessage(null);
67
```

Package: gov.va.med.pharmacy.persistence.dao.impl	

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/ PharmacyDaoImpl.java, line 270 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.persistence.dao.impl	

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/ PharmacyDaoImpl.java, line 270 (Obsolete: Deprecated by ESAPI)	Low

Enclosing Method: getSelectedStationIdsByVisn()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/PharmacyDaoImpl.java:
270
Taint Flags:

```
267
268   } catch (HibernateException e) {
269
270   e.printStackTrace();
271   }
272
273   }
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/ PharmacyDaoImpl.java, line 232 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: getPharmacyStationIdsByVisn()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/PharmacyDaoImpl.java:
232
Taint Flags:

```
229
230   } catch (HibernateException e) {
231   // TODO Auto-generated catch block
232   e.printStackTrace();
233   }
234
235   }
```

Package: gov.va.med.pharmacy.persistence.service.impl	

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/ impl/UserServiceImpl.java, line 165 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: updateUsers()

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.persistence.service.impl

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/UserServiceImpl.java, line 165 (Obsolete: Deprecated by ESAPI)	Low

File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/UserServiceImpl.java: 165
Taint Flags:

```
162
163  } catch (Exception e) {
164  // TODO Auto-generated catch block
165  e.printStackTrace();
166
167  throw new Exception(e);
168  }
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/UserServiceImpl.java, line 45 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: addNewVAUser()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/UserServiceImpl.java: 45
Taint Flags:

```
42
43  } catch (Exception e) {
44  // TODO Auto-generated catch block
45  e.printStackTrace();
46
47  throw new Exception(e);
48  }
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/PharmacyServiceImpl.java, line 71 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: findByNCPDPId()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/PharmacyServiceImpl.java:71
Taint Flags:

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.persistence.service.impl	

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/ impl/PharmacyServiceImpl.java, line 71 (Obsolete: Deprecated by ESAPI)	Low

```
68
69   } catch (Exception e) {
70   // TODO Auto-generated catch block
71   e.printStackTrace();
72   }
73
74   return filteredPharmacyEntity;
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/ impl/PharmacyServiceImpl.java, line 50 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: find()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/
PharmacyServiceImpl.java:50
Taint Flags:

```
47
48   } catch (Exception e) {
49   // TODO Auto-generated catch block
50   e.printStackTrace();
51   }
52
53   return filteredPharmaciesList;
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/ impl/PharmacyMigrationServiceImpl.java, line 39 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: findByNCPDPId()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/
PharmacyMigrationServiceImpl.java:39
Taint Flags:

```
36   } catch (Exception e) {
37
```

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.persistence.service.impl	

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/PharmacyMigrationServiceImpl.java, line 39 (Obsolete: Deprecated by ESAPI)	Low

```
38
39   e.printStackTrace();
40   }
41
42   LOG.info("queried pharmacy by NCPDPId for migration.");
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/PharmacyMigrationServiceImpl.java, line 60 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: findByKey()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/PharmacyMigrationServiceImpl.java:60
Taint Flags:

```
57   } catch (Exception e) {
58
59
60   e.printStackTrace();
61   }
62
63   LOG.info("queried app config by key for migration ws url.");
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/UserServiceImpl.java, line 59 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: updateVAUser()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/UserServiceImpl.java:59
Taint Flags:

```
56   userDao.save(user);
57
58   } catch (Exception e) {
```

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.persistence.service.impl	

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/UserServiceImpl.java, line 59 (Obsolete: Deprecated by ESAPI)	Low

```
59   e.printStackTrace();
60
61   throw new Exception(e);
62   }
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/UserServiceImpl.java, line 206 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: enableDisableteUsers()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/UserServiceImpl.java: 206
Taint Flags:

```
203
204   } catch (Exception e) {
205   // TODO Auto-generated catch block
206   e.printStackTrace();
207
208   throw new Exception(e);
209   }
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/UserServiceImpl.java, line 81 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: updateUserInfo()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/UserServiceImpl.java: 81
Taint Flags:

```
78   }
79   catch (Exception e) {
80   // TODO Auto-generated catch block
81   e.printStackTrace();
82
83   throw new Exception(e);
```

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.persistence.service.impl	
PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/UserServiceImpl.java, line 81 (Obsolete: Deprecated by ESAPI)	Low

```
84    }
```

Package: gov.va.med.pharmacy.utility	
PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/VistaLinkConnectionUtility.java, line 68 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: Properties()
Enclosing Method: sendRequest()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/VistaLinkConnectionUtility.java:68
Taint Flags:

```
65   try {
66
67
68   Properties properties = new Properties();
69
70   InputStream inputStream = null;
71   try{
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/VistaLinkConnectionUtility.java, line 77 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: getProperty()
Enclosing Method: sendRequest()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/VistaLinkConnectionUtility.java:77
Taint Flags:

```
74
75   if(null!=inputStream){
76   properties.load(inputStream);
77   proxyUser = properties.getProperty(VISTALINK_PROXYUSER).trim();
78   }
79
80   } finally {
```

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.utility

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/ VistaLinkConnectionUtility.java, line 76 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: load()
Enclosing Method: sendRequest()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/VistaLinkConnectionUtility.java:76
Taint Flags:

```
73  inputStream =
this.getClass().getClassLoader().getResourceAsStream(VISTALINK_PROPERTIES_FILE);
74
75  if(null!=inputStream){
76  properties.load(inputStream);
77  proxyUser = properties.getProperty(VISTALINK_PROXYUSER).trim();
78  }
79
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/ StreamUtilities.java, line 35 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: print
Enclosing Method: safeClose()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/StreamUtilities.java:35
Taint Flags:

```
32  try {
33  bufferedReader.close();
34  } catch (IOException e) {
35  System.out.print("StreamUtilities: Unable to close bufferedReader");
36  }
37  }
38  }
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/ StreamUtilities.java, line 25 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Structural)

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.utility

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/ StreamUtilities.java, line 25 (Obsolete: Deprecated by ESAPI)	Low

Sink Details

Sink: FunctionCall: print
Enclosing Method: safeClose()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/StreamUtilities.java:25
Taint Flags:

```
22   try {
23   inputStream.close();
24   } catch (IOException e) {
25   System.out.print("StreamUtilities: Unable to close inputStream");
26   }
27   }
28   }
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/ VistaLinkConnectionUtility.java, line 115 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: sendRequest()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/VistaLinkConnectionUtility.java:115
Taint Flags:

```
112   connection.close();
113   } catch (ResourceException e) {
114   //LOG.error("Error closing VistALink connection.", e);
115   e.printStackTrace();
116   }
117   }
118   }
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/ StreamUtilities.java, line 15 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: print
Enclosing Method: safeClose()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/StreamUtilities.java:15

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.utility	
PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/ StreamUtilities.java, line 15 (Obsolete: Deprecated by ESAPI)	**Low**

> **Taint Flags:**

```
12  try {
13  fileInputStream.close();
14  } catch (IOException e) {
15  System.out.print("StreamUtilities: Unable to close fileInputStream");
16  }
17  }
18  }
```

Package: gov.va.med.pharmacy.web	
PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/ SessionExtensionController.java, line 35 (Obsolete: Deprecated by ESAPI)	**Low**

Issue Details

> **Kingdom:** API Abuse
> **Scan Engine:** SCA (Semantic)

Sink Details

> **Sink:** printStackTrace()
> **Enclosing Method:** index()
> **File:** PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/SessionExtensionController.java:35
> **Taint Flags:**

```
32
33  } catch (IllegalStateException e) {
34  // TODO Auto-generated catch block
35  e.printStackTrace();
36
37  responseMsg ="failed";
38  }
```

Package: gov.va.med.pharmacy.web.administration	
PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 785 (Obsolete: Deprecated by ESAPI)	**Low**

Issue Details

> **Kingdom:** API Abuse
> **Scan Engine:** SCA (Semantic)

Sink Details

> **Sink:** printStackTrace()
> **Enclosing Method:** csvExport()
> **File:** PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java:785

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.web.administration	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 785 (Obsolete: Deprecated by ESAPI)	Low

Taint Flags:

```
782
783  } catch (Exception e) {
784  // TODO Auto-generated catch block
785  e.printStackTrace();
786  }
787
788  }
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 762 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: setContentType
Enclosing Method: csvExport()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java:762
Taint Flags:

```
759
760  }
761
762  response.setContentType("text/csv");
763
764  response.setHeader(responseHeaderKey, responseHeaderValue);
765
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 647 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: addNewPharmacy()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java:647
Taint Flags:

```
644  }
```

Obsolete: Deprecated by ESAPI	Low
Package: gov.va.med.pharmacy.web.administration	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 647 (Obsolete: Deprecated by ESAPI)	Low

```
645   catch (Exception e) {
646
647   e.printStackTrace();
648
649   errorsList.add("Add Failed. Unable to save record. Please contact production support.");
650
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 608 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: addNewPharmacy()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/
PharmacyManagementController.java:608
Taint Flags:

```
605
606   } catch (PersistenceException e) {
607
608   e.printStackTrace();
609
610   Throwable cause = e.getCause();
611
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 325 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: updatePharmacy()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/
PharmacyManagementController.java:325
Taint Flags:

```
322   }
323   catch (Exception e) {
324
325   e.printStackTrace();
```

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.web.administration	
PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 325 (Obsolete: Deprecated by ESAPI)	**Low**

```
326
327  errorsList.add("Update Failed. Unable to save record. Please contact production
support.");
328
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 287 (Obsolete: Deprecated by ESAPI)	**Low**

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: updatePharmacy()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java:287
Taint Flags:

```
284
285  } catch (PersistenceException e) {
286
287  e.printStackTrace();
288
289  Throwable cause = e.getCause();
290
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 160 (Obsolete: Deprecated by ESAPI)	**Low**

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: getPharmacyList()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java:160
Taint Flags:

```
157
158  } catch (Exception e) {
159  // TODO Auto-generated catch block
160  e.printStackTrace();
161  }
162
```

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.web.administration	
PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java, line 160 (Obsolete: Deprecated by ESAPI)	**Low**

```
163   mav.addObject("items", pharmacyList);
```

Package: gov.va.med.pharmacy.web.auth	
PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/LogoutController.java, line 37 (Obsolete: Deprecated by ESAPI)	**Low**

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: invalidate()
Enclosing Method: logout()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/LogoutController.java:37
Taint Flags:

```
34
35   session.removeAttribute(Constants.SESSION_USER);
36
37   session.invalidate(); // invalidate here after getting value from it.
38
39   if(logoutURL!=null){
40
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/LoginController.java, line 139 (Obsolete: Deprecated by ESAPI)	**Low**

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: authenticateUser()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/LoginController.java:139
Taint Flags:

```
136   e.printStackTrace();
137   } catch (Exception e) {
138   // TODO Auto-generated catch block
139   e.printStackTrace();
140   }
141   session.removeAttribute("loginErrorMessage");
142
```

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.web.auth

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/ LoginController.java, line 136 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: authenticateUser()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/LoginController.java:136
Taint Flags:

```
133   session.setAttribute(Constants.SESSION_USER, user);
134   } catch (IntrusionException e) {
135   // TODO Auto-generated catch block
136   e.printStackTrace();
137   } catch (Exception e) {
138   // TODO Auto-generated catch block
139   e.printStackTrace();
```

Package: gov.va.med.pharmacy.web.interceptor

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/interceptor/ LoginInterceptor.java, line 44 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: sendRedirect()
Enclosing Method: preHandle()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/interceptor/LoginInterceptor.java:44
Taint Flags:

```
41   if (session.getAttribute(Constants.SESSION_USER) == null) {
42
43
44   response.sendRedirect("/inbound/public/landing");
45   return false;
46   }
47
```

Package: gov.va.med.pharmacy.web.reports

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ AutoCheckReportController.java, line 172 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Obsolete: Deprecated by ESAPI	Low

| **Package: gov.va.med.pharmacy.web.reports** | |

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ AutoCheckReportController.java, line 172 (Obsolete: Deprecated by ESAPI)	Low

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: csvExport()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/AutoCheckReportController.java:172
Taint Flags:

```
169
170   } catch (Exception e) {
171   // TODO Auto-generated catch block
172   e.printStackTrace();
173   }
174
175   }
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ ErxSummaryReportController.java, line 173 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: csvExport()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ErxSummaryReportController.java:173
Taint Flags:

```
170
171   } catch (Exception e) {
172   // TODO Auto-generated catch block
173   e.printStackTrace();
174   }
175
176   }
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ RejectReasonsReportController.java, line 151 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Structural)

Sink Details

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.web.reports	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ RejectReasonsReportController.java, line 151 (Obsolete: Deprecated by ESAPI)	Low

Sink: FunctionCall: setContentType
Enclosing Method: csvExport()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/RejectReasonsReportController.java: 151
Taint Flags:

```
148
149
150
151    response.setContentType("text/csv");
152
153    response.setHeader(responseHeaderKey, responseHeaderValue);
154
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ AutoCheckReportController.java, line 149 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: setContentType
Enclosing Method: csvExport()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/AutoCheckReportController.java:149
Taint Flags:

```
146    }
147
148
149    response.setContentType("text/csv");
150
151    response.setHeader(responseHeaderKey, responseHeaderValue);
152
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ RejectReasonsReportController.java, line 174 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: csvExport()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/RejectReasonsReportController.java: 174

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.web.reports	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/RejectReasonsReportController.java, line 174 (Obsolete: Deprecated by ESAPI)	Low

Taint Flags:

```
171
172  } catch (Exception e) {
173  // TODO Auto-generated catch block
174  e.printStackTrace();
175  }
176
177  }
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/SummaryReportController.java, line 178 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: csvExport()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/SummaryReportController.java:178
Taint Flags:

```
175
176  } catch (Exception e) {
177  // TODO Auto-generated catch block
178  e.printStackTrace();
179  }
180
181  }
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ErxSummaryReportController.java, line 150 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: setContentType
Enclosing Method: csvExport()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ErxSummaryReportController.java:150
Taint Flags:

```
147
148  }
149
```

Obsolete: Deprecated by ESAPI	Low

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ ErxSummaryReportController.java, line 150 (Obsolete: Deprecated by ESAPI)	Low

150	response.setContentType("text/csv");
151	
152	response.setHeader(responseHeaderKey, responseHeaderValue);
153	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ SummaryReportController.java, line 155 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: setContentType
Enclosing Method: csvExport()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/SummaryReportController.java:155
Taint Flags:

152	
153	
154	
155	response.setContentType("text/csv");
156	
157	response.setHeader(responseHeaderKey, responseHeaderValue);
158	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/ TrackRxController.java, line 308 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: csvExport()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/TrackRxController.java:308
Taint Flags:

305	
306	} catch (Exception e) {
307	// TODO Auto-generated catch block
308	e.printStackTrace();
309	}
310	

Obsolete: Deprecated by ESAPI	**Low**

Package: gov.va.med.pharmacy.web.track	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/ TrackRxController.java, line 308 (Obsolete: Deprecated by ESAPI)	**Low**

```
311  }
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/ TrackRxController.java, line 286 (Obsolete: Deprecated by ESAPI)	**Low**

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Structural)

Sink Details

Sink: FunctionCall: setContentType
Enclosing Method: csvExport()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/TrackRxController.java:286
Taint Flags:

```
283
284  }
285
286  response.setContentType("text/csv");
287
288  response.setHeader(responseHeaderKey, responseHeaderValue);
289
```

Package: gov.va.med.pharmacy.wsclients.eAnde	

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java, line 135 (Obsolete: Deprecated by ESAPI)	**Low**

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: getEESummaryHistory()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java:135
Taint Flags:

```
132  gov.va.med.pharmacy.wsclients.eAnde.GetEESummaryHistoryResponse _return = null;
133  return _return;
134  } catch (java.lang.Exception ex) {
135  ex.printStackTrace();
136  throw new RuntimeException(ex);
137  }
138  }
```

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.wsclients.eAnde	

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java, line 60 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: getDeliveryPreference()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/
EeSummaryPortSoap11Impl.java:60
Taint Flags:

```
57   gov.va.med.pharmacy.wsclients.eAnde.GetDeliveryPreferenceResponse _return = null;
58   return _return;
59   } catch (java.lang.Exception ex) {
60   ex.printStackTrace();
61   throw new RuntimeException(ex);
62   }
63   }
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java, line 180 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: getEESummary()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/
EeSummaryPortSoap11Impl.java:180
Taint Flags:

```
177   gov.va.med.pharmacy.wsclients.eAnde.getEESummaryResponse _return = null;
178   return _return;
179   } catch (java.lang.Exception ex) {
180   ex.printStackTrace();
181   throw new RuntimeException(ex);
182   }
183   }
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java, line 75 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.wsclients.eAnde

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java, line 75 (Obsolete: Deprecated by ESAPI)	Low

Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: retrieveIVMCandidates()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java:75
Taint Flags:

```
72   gov.va.med.pharmacy.wsclients.eAnde.RetrieveIVMCandidatesResponse _return = null;
73   return _return;
74   } catch (java.lang.Exception ex) {
75   ex.printStackTrace();
76   throw new RuntimeException(ex);
77   }
78   }
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ ClientPasswordCallback.java, line 23 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: Properties()
Enclosing Method: handle()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ ClientPasswordCallback.java:23
Taint Flags:

```
20
21   public void handle(Callback[] callbacks) throws IOException, UnsupportedCallbackException {
22
23   Properties properties = new Properties();
24
25   InputStream inputStream = null;
26
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java, line 165 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.wsclients.eAnde	

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java, line 165 (Obsolete: Deprecated by ESAPI)	Low

Sink Details

Sink: printStackTrace()
Enclosing Method: getEligibilityDetermination()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/
EeSummaryPortSoap11Impl.java:165
Taint Flags:

```
162   gov.va.med.pharmacy.wsclients.eAnde.GetEligibilityDeterminationResponse _return = null;
163   return _return;
164   } catch (java.lang.Exception ex) {
165   ex.printStackTrace();
166   throw new RuntimeException(ex);
167   }
168   }
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java, line 150 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: updateDeliveryPreference()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/
EeSummaryPortSoap11Impl.java:150
Taint Flags:

```
147   gov.va.med.pharmacy.wsclients.eAnde.UpdateDeliveryPreferenceResponse _return = null;
148   return _return;
149   } catch (java.lang.Exception ex) {
150   ex.printStackTrace();
151   throw new RuntimeException(ex);
152   }
153   }
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java, line 90 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()

Obsolete: Deprecated by ESAPI	Low

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java, line 90 (Obsolete: Deprecated by ESAPI)

Low

Enclosing Method: getPersonNotification()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java:90
Taint Flags:

```
87   gov.va.med.pharmacy.wsclients.eAnde.GetPersonNotificationResponse _return = null;
88   return _return;
89   } catch (java.lang.Exception ex) {
90   ex.printStackTrace();
91   throw new RuntimeException(ex);
92   }
93   }
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java, line 105 (Obsolete: Deprecated by ESAPI)

Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: getIVMLetterStatuses()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java:105
Taint Flags:

```
102   gov.va.med.pharmacy.wsclients.eAnde.GetIVMLetterStatusesResponse _return = null;
103   return _return;
104   } catch (java.lang.Exception ex) {
105   ex.printStackTrace();
106   throw new RuntimeException(ex);
107   }
108   }
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ ClientPasswordCallback.java, line 35 (Obsolete: Deprecated by ESAPI)

Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: load()
Enclosing Method: handle()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ ClientPasswordCallback.java:35

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.wsclients.eAnde	

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ ClientPasswordCallback.java, line 35 (Obsolete: Deprecated by ESAPI)	Low

Taint Flags:

```
32
33   try{
34   if (null != inputStream) {
35   properties.load(inputStream);
36   }
37   }
38   finally{
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ ClientPasswordCallback.java, line 42 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: getProperty()
Enclosing Method: handle()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ ClientPasswordCallback.java:42
Taint Flags:

```
39   StreamUtilities.safeClose(inputStream);
40   }
41   username = properties.getProperty(E_AND_E_USERNAME).trim();
42   password = properties.getProperty(E_AND_E_PASSWD).trim();
43
44   for (int i = 0; i < callbacks.length; i++) {
45   WSPasswordCallback pc = (WSPasswordCallback) callbacks[i];
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java, line 120 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: sendIVMUpdates()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java:120
Taint Flags:

```
117   gov.va.med.pharmacy.wsclients.eAnde.SendIVMUpdatesResponse _return = null;
```

Obsolete: Deprecated by ESAPI	Low

Package: gov.va.med.pharmacy.wsclients.eAnde	

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java, line 120 (Obsolete: Deprecated by ESAPI)	Low

```
118   return _return;
119   } catch (java.lang.Exception ex) {
120   ex.printStackTrace();
121   throw new RuntimeException(ex);
122   }
123   }
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortSoap11Impl.java, line 45 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: printStackTrace()
Enclosing Method: updateIVMRecordStatus()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/
EeSummaryPortSoap11Impl.java:45
Taint Flags:

```
42   gov.va.med.pharmacy.wsclients.eAnde.UpdateIVMRecordStatusResponse _return = null;
43   return _return;
44   } catch (java.lang.Exception ex) {
45   ex.printStackTrace();
46   throw new RuntimeException(ex);
47   }
48   }
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ ClientPasswordCallback.java, line 41 (Obsolete: Deprecated by ESAPI)	Low

Issue Details

Kingdom: API Abuse
Scan Engine: SCA (Semantic)

Sink Details

Sink: getProperty()
Enclosing Method: handle()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/
ClientPasswordCallback.java:41
Taint Flags:

```
38   finally{
39   StreamUtilities.safeClose(inputStream);
40   }
41   username = properties.getProperty(E_AND_E_USERNAME).trim();
```

Obsolete: Deprecated by ESAPI	Low
Package: gov.va.med.pharmacy.wsclients.eAnde	
PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ ClientPasswordCallback.java, line 41 (Obsolete: Deprecated by ESAPI)	**Low**

```
42   password = properties.getProperty(E_AND_E_PASSWD).trim();
43
44   for (int i = 0; i < callbacks.length; i++) {
```

Password Management (5 issues)

Abstract

Storing a password in plain text can result in a system compromise.

Explanation

Password management issues occur when a password is stored in plain text in an application's properties or configuration file. **Example 1:** The following code reads a password from a properties file and uses the password to connect to a database.

```
...
Properties prop = new Properties();
prop.load(new FileInputStream("config.properties"));
String password = prop.getProperty("password");

DriverManager.getConnection(url, usr, password);
...
```

This code will run successfully, but anyone who has access to config.properties can read the value of `password`. Any devious employee with access to this information can use it to break into the system. In the mobile environment, password management is especially important given that there is such a high chance of device loss. **Example 2:** The code below reads username and password from an Android WebView store and uses them to setup authentication for viewing protected pages.

```
...
webview.setWebViewClient(new WebViewClient() {
  public void onReceivedHttpAuthRequest(WebView view,
        HttpAuthHandler handler, String host, String realm) {
    String[] credentials = view.getHttpAuthUsernamePassword(host, realm);
    String username = credentials[0];
    String password = credentials[1];
    handler.proceed(username, password);
  }
});
...
```

By default, WebView credentials are stored in plain text and are not hashed. So if a user has a rooted device (or uses an emulator), she is able to read stored passwords for given sites.

Recommendation

A password should never be stored in plain text. An administrator should be required to enter the password when the system starts. If that approach is impractical, a less secure but often adequate solution is to obfuscate the password and scatter the de-obfuscation material around the system so that an attacker has to obtain and correctly combine multiple system resources to decipher the password. At the very least, passwords should be hashed before being stored. Some third-party products claim the ability to manage passwords in a more secure way. For example, WebSphere Application Server 4.x uses a simple XOR encryption algorithm for obfuscating values, but be skeptical about such facilities. WebSphere and other application servers offer outdated and relatively weak encryption mechanisms that are insufficient for security-sensitive environments. Today, the best option for a secure generic solution is to create a proprietary mechanism yourself. For Android, as well as any other platform that uses SQLite database, SQLCipher is a good alternative. SQLCipher is an extension to the SQLite database that provides transparent 256-bit AES encryption of database files. Thus, credentials can be stored in an encrypted database. **Example 3:** The code below demonstrates how to integrate SQLCipher into an Android application after downloading the necessary binaries, and store credentials into the database file.

```
import net.sqlcipher.database.SQLiteDatabase;
...
  SQLiteDatabase.loadLibs(this);
```

```
  File dbFile = getDatabasePath("credentials.db");
  dbFile.mkdirs();
  dbFile.delete();
  SQLiteDatabase db = SQLiteDatabase.openOrCreateDatabase(dbFile,
"credentials", null);
  db.execSQL("create table credentials(u, p)");
  db.execSQL("insert into credentials(u, p) values(?, ?)", new Object[]
{username, password});
...
```

Note that references to `android.database.sqlite.SQLiteDatabase` are substituted with those of `net.sqlcipher.database.SQLiteDatabase`. To enable encryption on the WebView store, WebKit has to be re-compiled with the `sqlcipher.so` library.

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Password Management	5	0	0	5
Total	**5**	**0**	**0**	**5**

Password Management	Low

Package: gov.va.med.pharmacy.jaxrs.eAnde.services.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 164 (Password Management)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Data Flow)

Source Details

Source: java.util.Properties.load()
From: gov.va.med.pharmacy.jaxrs.eAnde.services.impl.EESummary_Client.returnResponse
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/EESummary_Client.java:69

```
66  try{
67  inputStream =
this.getClass().getClassLoader().getResourceAsStream(WSCLIENTS_PROPERTIES_FILE)
68  if(null != inputStream){
```

Password Management	Low

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 164 (Password Management)	Low

```
69   properties.load(inputStream);
70   } else
71   {
72   LOG.error("Property file not loaded/found.");
```

Sink Details

Sink: java.security.KeyStore.load()
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/EESummary_Client.java: 164
Taint Flags: PROPERTY

```
161   try {
162   fileIn2 = new FileInputStream(file);
163   KeyStore trustStore = KeyStore.getInstance(KEYSTORE_FILE_TYPE);
164   trustStore.load(fileIn2, keyPasswd.toCharArray());
165   TrustManager[] myTrustStoreKeyManagers = getTrustManagers(trustStore);
166   tlsCP.setTrustManagers(myTrustStoreKeyManagers);
167   httpConduit.setTlsClientParameters(tlsCP);
```

Package: gov.va.med.pharmacy.jaxrs.mvi.dao.impl

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 763 (Password Management)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Data Flow)

Source Details

Source: java.util.Properties.load()
From: gov.va.med.pharmacy.jaxrs.mvi.dao.impl.MVIClient.getMVIData
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient. java:164

```
161   inputStream = this.getClass().getClassLoader()
162   .getResourceAsStream(WSCLIENTS_PROPERTIES_FILE);
163   if (null != inputStream) {
164   properties.load(inputStream);
165   }
166   } finally {
167   if (null != inputStream) {
```

Sink Details

Password Management	Low
Package: gov.va.med.pharmacy.jaxrs.mvi.dao.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 763 (Password Management)	Low

Sink: java.security.KeyStore.load()
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:763
Taint Flags: PROPERTY

```
760  try {
761  fileIn2 = new FileInputStream(file);
762  KeyStore trustStore = KeyStore.getInstance(KEYSTORE_FILE_TYPE);
763  trustStore.load(fileIn2, keyPasswd.toCharArray());
764  TrustManager[] myTrustStoreKeyManagers = getTrustManagers(trustStore);
765  tlsCP.setTrustManagers(myTrustStoreKeyManagers);
766  httpConduit.setTlsClientParameters(tlsCP);
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 749 (Password Management)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Data Flow)

Source Details

Source: java.util.Properties.load()
From: gov.va.med.pharmacy.jaxrs.mvi.dao.impl.MVIClient.getMVIData
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:164

```
161  inputStream = this.getClass().getClassLoader()
162  .getResourceAsStream(WSCLIENTS_PROPERTIES_FILE);
163  if (null != inputStream) {
164  properties.load(inputStream);
165  }
166  } finally {
167  if (null != inputStream) {
```

Sink Details

Sink: java.security.KeyStore.load()
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:749
Taint Flags: PROPERTY

```
746
747  try {
748  fileIn1 = new FileInputStream(file);
749  keyStore.load(fileIn1, keyPasswd.toCharArray());
750  KeyManager[] myKeyManagers = getKeyManagers(keyStore, keyPasswd);
751  tlsCP.setKeyManagers(myKeyManagers);
```

Password Management	Low

Package: gov.va.med.pharmacy.jaxrs.mvi.dao.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 749 (Password Management)	**Low**

```
752   } finally {
```

Package: gov.va.med.pharmacy.jaxrs.outboundncpdpmessage.service.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 253 (Password Management)	**Low**

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Data Flow)

Source Details

Source: java.util.Properties.load()
From: gov.va.med.pharmacy.jaxrs.outboundncpdpmessage.service.impl.OutboundNCPDPMessageServiceImpl.sendOutboundMessage
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/OutboundNCPDPMessageServiceImpl.java:125

```
122   inputStream =
this.getClass().getClassLoader().getResourceAsStream(WSCLIENTS_PROPERTIES_FILE)
123
124   if (null != inputStream) {
125   properties.load(inputStream);
126   }
127   }
128   finally
```

Sink Details

Sink: java.security.KeyStore.load()
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/OutboundNCPDPMessageServiceImpl.java:253
Taint Flags: PROPERTY

```
250
251   try {
252   fileIn1 = new FileInputStream(file);
253   keyStore.load(fileIn1, keyPasswd.toCharArray());
254   KeyManager[] myKeyManagers = getKeyManagers(keyStore, keyPasswd);
255   tlsCP.setKeyManagers(myKeyManagers);
256   } finally {
```

Password Management	Low

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 267 (Password Management)	**Low**

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Data Flow)

Source Details

Source: java.util.Properties.load()
From: gov.va.med.pharmacy.jaxrs.outboundncpdpmessage.service.impl.OutboundNCPDPMessageServiceImpl.sendOutboundMessage
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/OutboundNCPDPMessageServiceImpl.java:125

```
122  inputStream =
this.getClass().getClassLoader().getResourceAsStream(WSCLIENTS_PROPERTIES_FILE)
123
124  if (null != inputStream) {
125  properties.load(inputStream);
126  }
127  }
128  finally
```

Sink Details

Sink: java.security.KeyStore.load()
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/OutboundNCPDPMessageServiceImpl.java:267
Taint Flags: PROPERTY

```
264  try {
265  fileIn2 = new FileInputStream(file);
266  KeyStore trustStore = KeyStore.getInstance(KEYSTORE_FILE_TYPE);
267  trustStore.load(fileIn2, keyPasswd.toCharArray());
268  TrustManager[] myTrustStoreKeyManagers = getTrustManagers(trustStore);
269  tlsCP.setTrustManagers(myTrustStoreKeyManagers);
270  httpConduit.setTlsClientParameters(tlsCP);
```

Password Management: Hardcoded Password (4 issues)

Abstract

Hardcoded passwords may compromise system security in a way that cannot be easily remedied.

Explanation

It is never a good idea to hardcode a password. Not only does hardcoding a password allow all of the project's developers to view the password, it also makes fixing the problem extremely difficult. After the code is in production, the password cannot be changed without patching the software. If the account protected by the password is compromised, the owners of the system must choose between security and availability. **Example 1:** The following code uses a hardcoded password to connect to a database:

```
...
DriverManager.getConnection(url, "scott", "tiger");
...
```

This code will run successfully, but anyone who has access to it will have access to the password. After the program has shipped, there is likely no way to change the database user "scott" with a password of "tiger" unless the program is patched. An employee with access to this information can use it to break into the system. Even worse, if attackers have access to the bytecode for the application they can use the `javap -c` command to access the disassembled code, which will contain the values of the passwords used. The result of this operation might look something like the following for the example above:

```
javap -c ConnMngr.class

22: ldc    #36; //String jdbc:mysql://ixne.com/rxsql
24: ldc    #38; //String scott
26: ldc    #17; //String tiger
```

In the mobile environment, password management is especially important given that there is such a high chance of device loss. **Example 2:** The code below uses hardcoded username and password to setup authentication for viewing protected pages with Android's WebView.

```
...
webview.setWebViewClient(new WebViewClient() {
  public void onReceivedHttpAuthRequest(WebView view,
       HttpAuthHandler handler, String host, String realm) {
    handler.proceed("guest", "allow");
  }
});
...
```

Similar to Example 1, this code will run successfully, but anyone who has access to it will have access to the password.

Recommendation

Passwords should never be hardcoded and should generally be obfuscated and managed in an external source. Storing passwords in plain text anywhere on the system allows anyone with sufficient permissions to read and potentially misuse the password. At the very least, passwords should be hashed before being stored. Some third-party products claim the ability to manage passwords in a more secure way. For example, WebSphere Application Server 4.x uses a simple XOR encryption algorithm for obfuscating values, but be skeptical about such facilities. WebSphere and other application servers offer outdated and relatively weak encryption mechanisms that are insufficient for security-sensitive environments. Today, the best option for a secure generic solution is to create a proprietary mechanism yourself. For Android, as well as any other platform that uses SQLite database, SQLCipher is a good alternative. SQLCipher is an extension to the SQLite database that provides transparent 256-bit AES encryption of database files. Thus, credentials can be stored in an encrypted database. **Example 3:** The code below demonstrates how to integrate SQLCipher into an Android application after downloading the necessary binaries, and store

credentials into the database file.
```
import net.sqlcipher.database.SQLiteDatabase;
...
  SQLiteDatabase.loadLibs(this);
  File dbFile = getDatabasePath("credentials.db");
  dbFile.mkdirs();
  dbFile.delete();
  SQLiteDatabase db = SQLiteDatabase.openOrCreateDatabase(dbFile,
"credentials", null);
  db.execSQL("create table credentials(u, p)");
  db.execSQL("insert into credentials(u, p) values(?, ?)", new Object[]
{username, password});
...
```
Note that references to `android.database.sqlite.SQLiteDatabase` are substituted with those of `net.sqlcipher.database.SQLiteDatabase`. To enable encryption on the WebView store, WebKit has to be re-compiled with the `sqlcipher.so` library.

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Password Management: Hardcoded Password	4	0	0	4
Total	**4**	**0**	**0**	**4**

Password Management: Hardcoded Password	High

| Package: gov.va.med.pharmacy.jaxrs.eAnde.services.impl | |

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 55 (Password Management: Hardcoded Password)	High

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandlJ: Thu Sep 14 2017 16:55:47 GMT-0400 (EDT)
The references are not hardcoded passwords, but System Property names that refer to passwords

Sink Details

Password Management: Hardcoded Password	High

Package: gov.va.med.pharmacy.jaxrs.eAnde.services.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 55 (Password Management: Hardcoded Password)	High

Sink: FieldAccess: KEYSTORE_PASSWD_PROPERTY
Enclosing Method: ()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/EESummary_Client.java:
55
Taint Flags:

```
52   private static final QName SERVICE_NAME = new QName("http://
jaxws.webservices.esr.med.va.gov/schemas", "eeSummaryPortService");
53   private static final String KEYSTORE_FILE_TYPE = "JKS";
54   private static final String KEYSTORE_FILE_NAME_PROPERTY = "keystore.filename";
55   private static final String KEYSTORE_PASSWD_PROPERTY = "keystore.password";
56
57   public getEESummaryResponse returnResponse(String key) throws java.lang.Exception {
58
```

Package: gov.va.med.pharmacy.jaxrs.mvi.dao.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 97 (Password Management: Hardcoded Password)	High

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Wed May 10 2017 11:28:37 GMT-0400 (EDT)
The references are not hardcoded passwords, but System Property names that refer to passwords

Sink Details

Sink: FieldAccess: KEYSTORE_PASSWD_PROPERTY
Enclosing Method: ()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:97
Taint Flags:

```
94   private static final String MVI_CLIENT_ENDPOINT_PROPERTY = "mvi.client.endpoint";
95   private static final String KEYSTORE_FILE_TYPE = "JKS";
96   private static final String KEYSTORE_FILE_NAME_PROPERTY = "keystore.filename";
97   private static final String KEYSTORE_PASSWD_PROPERTY = "keystore.password";
98   private static final String LEGAL_NAME = "Legal Name";
99   private static final String L_CHARACTER = "L";
100  private static final String EMPTY_STRING = "";
```

Password Management: Hardcoded Password	High

Package: gov.va.med.pharmacy.jaxrs.outboundncpdpmessage.service.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/OutboundNCPDPMessageServiceImpl.java, line 77 (Password Management: Hardcoded Password)	**High**

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Wed May 10 2017 11:28:46 GMT-0400 (EDT)
The references are not hardcoded passwords, but System Property names that refer to passwords

Sink Details

Sink: FieldAccess: KEYSTORE_PASSWD_PROPERTY
Enclosing Method: ()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/OutboundNCPDPMessageServiceImpl.java:77
Taint Flags:

```
74
75   private static final String KEYSTORE_FILE_TYPE = "JKS";
76   private static final String KEYSTORE_FILE_NAME_PROPERTY = "keystore.filename";
77   private static final String KEYSTORE_PASSWD_PROPERTY = "keystore.password";
78
79   @Autowired
80   private OutboundNcpdpMsgService outboundNcpdpMsgService;
```

Package: gov.va.med.pharmacy.wsclients.eAnde	
PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ClientPasswordCallback.java, line 18 (Password Management: Hardcoded Password)	**High**

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Wed May 10 2017 11:28:30 GMT-0400 (EDT)
The references are not hardcoded passwords, but System Property names that refer to passwords

Sink Details

Sink: FieldAccess: E_AND_E_PASSWD
Enclosing Method: ()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ClientPasswordCallback.java:18

Password Management: Hardcoded Password	High
Package: gov.va.med.pharmacy.wsclients.eAnde	

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ ClientPasswordCallback.java, line 18 (Password Management: Hardcoded Password)	High

Taint Flags:

```
15 public class ClientPasswordCallback implements CallbackHandler {
16
17  private static final String WSCLIENTS_PROPERTIES_FILE =
"gov.va.med.pharmacy.inboundeRx.properties";
18  private static final String E_AND_E_PASSWD = "eAnde.password";
19  private static final String E_AND_E_USERNAME = "eAnde.username";
20
21  public void handle(Callback[] callbacks) throws IOException, UnsupportedCallbackException {
```

Password Management: Password in Comment (18 issues)

Abstract

Storing passwords or password details in plain text anywhere in the system or system code may compromise system security in a way that cannot be easily remedied.

Explanation

It is never a good idea to hardcode a password. Storing password details within comments is equivalent to hardcoding passwords. Not only does it allow all of the project's developers to view the password, it also makes fixing the problem extremely difficult. After the code is in production, the password is now leaked to the outside world and cannot be protected or changed without patching the software. If the account protected by the password is compromised, the owners of the system must choose between security and availability. **Example:** The following comment specifies the default password to connect to a database:
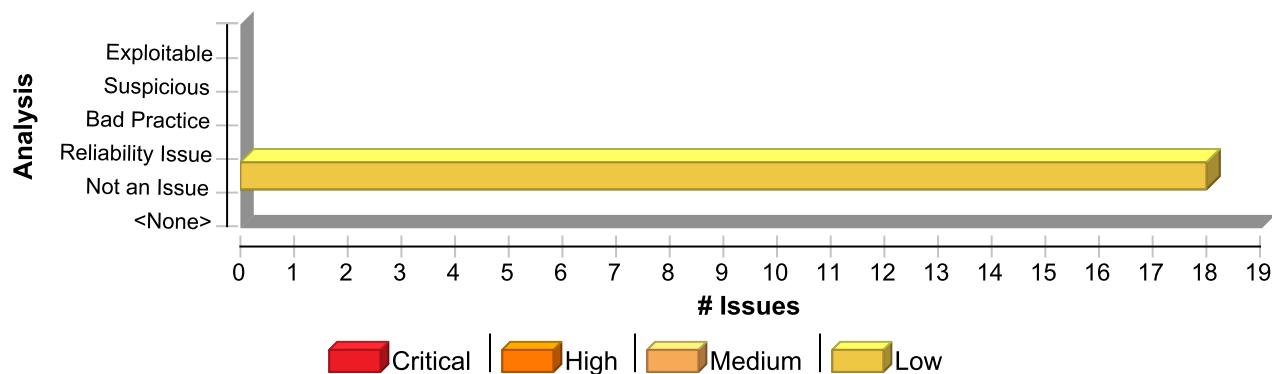
```
...
// Default username for database connection is "scott"
// Default password for database connection is "tiger"
...
```

This code will run successfully, but anyone who has access to it will have access to the password. After the program has shipped, there is likely no way to change the database user "scott" with a password of "tiger" unless the program is patched. An employee with access to this information can use it to break into the system.

Recommendation

Passwords should never be hardcoded and should generally be obfuscated and managed in an external source. Storing passwords in plain text anywhere on the system allows anyone with sufficient permissions to read and potentially misuse the password.

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Password Management: Password in Comment	18	0	0	18
Total	**18**	**0**	**0**	**18**

Password Management: Password in Comment	Low

Package: .src.main.java.gov.va.med.pharmacy.ncpdpmsgs

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ PasswordType.java, line 19 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/PasswordType.java:19
Taint Flags:

```
16  import javax.xml.bind.annotation.XmlValue;
17
18
19  /**
20   * <p>Java class for PasswordType complex type.
21   *
22   * <p>The following schema fragment specifies the expected content contained within this
class.
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ PasswordRequestType.java, line 61 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/PasswordRequestType.java:61
Taint Flags:

```
58   return oldPassword;
59  }
60
61  /**
62   * Sets the value of the oldPassword property.
```

Password Management: Password in Comment	Low

Package: .src.main.java.gov.va.med.pharmacy.ncpdpmsgs	

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ PasswordRequestType.java, line 61 (Password Management: Password in Comment)	Low

```
63   *
64   * @param value
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ UsernameTokenType.java, line 96 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/UsernameTokenType.java:96
Taint Flags:

```
93   return password;
94   }
95
96   /**
97   * Sets the value of the password property.
98   *
99   * @param value
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ PasswordChange.java, line 59 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/PasswordChange.java:59

Password Management: Password in Comment	Low

Package: .src.main.java.gov.va.med.pharmacy.ncpdpmsgs	

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ PasswordChange.java, line 59 (Password Management: Password in Comment)	Low

Taint Flags:

```
56  return request;
57  }
58
59  /**
60  * Sets the value of the request property.
61  *
62  * @param value
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ PasswordRequestType.java, line 49 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/PasswordRequestType.java:49
Taint Flags:

```
46  @XmlElement(name = "NewPassword", required = true)
47  protected Object newPassword;
48
49  /**
50  * Gets the value of the oldPassword property.
51  *
52  * @return
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ ObjectFactory.java, line 828 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Password Management: Password in Comment	Low

Package: .src.main.java.gov.va.med.pharmacy.ncpdpmsgs

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ObjectFactory.java, line 828 (Password Management: Password in Comment)	Low

Audit Comments

VHAHAMWandIJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ObjectFactory.java:828
Taint Flags:

```
825   return new SecurityIdentificationType();
826   }
827
828   /**
829   * Create an instance of {@link PasswordType }
830   *
831   */
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/BodyType.java, line 17 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/BodyType.java:17
Taint Flags:

```
14   import javax.xml.bind.annotation.XmlType;
15
16
17   /**
18   * <p>Java class for BodyType complex type.
19   *
20   * <p>The following schema fragment specifies the expected content contained within this
class.
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ObjectFactory.java, line 524 (Password Management: Password in Comment)	Low

Issue Details

Password Management: Password in Comment	Low

Package: .src.main.java.gov.va.med.pharmacy.ncpdpmsgs	

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ObjectFactory.java, line 524 (Password Management: Password in Comment)	Low

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis	Not an Issue

Audit Comments

VHAHAMWandIJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ObjectFactory.java:524
Taint Flags:

```
521   return new PasswordChange();
522   }
523
524   /**
525   * Create an instance of {@link PasswordRequestType }
526   *
527   */
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/UsernameTokenType.java, line 84 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis	Not an Issue

Audit Comments

VHAHAMWandIJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/UsernameTokenType.java:84
Taint Flags:

```
81   this.username = value;
82   }
83
84   /**
85   * Gets the value of the password property.
86   *
87   * @return
```

Password Management: Password in Comment	Low

Package: .src.main.java.gov.va.med.pharmacy.ncpdpmsgs	

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ UsernameTokenType.java, line 84 (Password Management: Password in Comment)	Low

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ BodyType.java, line 349 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandlJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/BodyType.java:349
Taint Flags:

```
346  this.getMessage = value;
347  }
348
349  /**
350  * Gets the value of the passwordChange property.
351  *
352  * @return
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ ObjectFactory.java, line 516 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandlJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ObjectFactory.java:516
Taint Flags:

```
513  return new GetMessage();
514  }
```

Password Management: Password in Comment	Low

Package: .src.main.java.gov.va.med.pharmacy.ncpdpmsgs	

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ ObjectFactory.java, line 516 (Password Management: Password in Comment)	Low

```
515
516  /**
517   * Create an instance of {@link PasswordChange }
518   *
519   */
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ PasswordRequestType.java, line 17 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/PasswordRequestType.java:17
Taint Flags:

```
14  import javax.xml.bind.annotation.XmlType;
15
16
17  /**
18   * <p>Java class for PasswordRequestType complex type.
19   *
20   * <p>The following schema fragment specifies the expected content contained within this
class.
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ PasswordRequestType.java, line 85 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Password Management: Password in Comment	Low

Package: .src.main.java.gov.va.med.pharmacy.ncpdpmsgs

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ PasswordRequestType.java, line 85 (Password Management: Password in Comment)	Low

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/PasswordRequestType.java:85
Taint Flags:

```
82   return newPassword;
83   }
84
85   /**
86   * Sets the value of the newPassword property.
87   *
88   * @param value
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ PasswordChange.java, line 18 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis	Not an Issue

Audit Comments

VHAHAMWandlJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/PasswordChange.java:18
Taint Flags:

```
15   import javax.xml.bind.annotation.XmlType;
16
17
18   /**
19   * <p>Java class for anonymous complex type.
20   *
21   * <p>The following schema fragment specifies the expected content contained within this
class.
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ UsernameTokenType.java, line 19 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Password Management: Password in Comment	Low

Package: .src.main.java.gov.va.med.pharmacy.ncpdpmsgs	

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ UsernameTokenType.java, line 19 (Password Management: Password in Comment)	Low

Audit Details

Analysis	Not an Issue

Audit Comments

VHAHAMWandlJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/UsernameTokenType.java:19
Taint Flags:

```
16  import javax.xml.datatype.XMLGregorianCalendar;
17
18
19  /**
20   * <p>Java class for UsernameTokenType complex type.
21   *
22   * <p>The following schema fragment specifies the expected content contained within this
class.
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ BodyType.java, line 361 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis	Not an Issue

Audit Comments

VHAHAMWandlJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/BodyType.java:361
Taint Flags:

```
358  return passwordChange;
359  }
360
361  /**
362   * Sets the value of the passwordChange property.
363   *
364   * @param value
```

Password Management: Password in Comment	Low

Package: .src.main.java.gov.va.med.pharmacy.ncpdpmsgs	

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ PasswordRequestType.java, line 73 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/PasswordRequestType.java:73
Taint Flags:

```
70   this.oldPassword = value;
71   }
72
73   /**
74   * Gets the value of the newPassword property.
75   *
76   * @return
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ PasswordChange.java, line 47 (Password Management: Password in Comment)	Low

Issue Details

Kingdom: Security Features
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Fri Sep 22 2017 14:56:16 GMT-0400 (EDT)
Password is not stored in comments. Comment is only documenting a field/variable called "Password".

Sink Details

Sink: Comment
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/PasswordChange.java:47
Taint Flags:

```
44   @XmlElement(name = "Request", required = true)
45   protected PasswordRequestType request;
46
47   /**
48   * Gets the value of the request property.
```

Password Management: Password in Comment	Low
Package: .src.main.java.gov.va.med.pharmacy.ncpdpmsgs	

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/ncpdpmsgs/ PasswordChange.java, line 47 (Password Management: Password in Comment)	Low

```
49    *
50    * @return
```

Poor Error Handling: Overly Broad Catch (29 issues)

Abstract

The catch block handles a broad swath of exceptions, potentially trapping dissimilar issues or problems that should not be dealt with at this point in the program.

Explanation

Multiple catch blocks can get repetitive, but "condensing" catch blocks by catching a high-level class such as `Exception` can obscure exceptions that deserve special treatment or that should not be caught at this point in the program. Catching an overly broad exception essentially defeats the purpose of Java's typed exceptions, and can become particularly dangerous if the program grows and begins to throw new types of exceptions. The new exception types will not receive any attention. **Example:** The following code excerpt handles three types of exceptions in an identical fashion.

```
try {
  doExchange();
}
catch (IOException e) {
  logger.error("doExchange failed", e);
}
catch (InvocationTargetException e) {
  logger.error("doExchange failed", e);
}
catch (SQLException e) {
  logger.error("doExchange failed", e);
}
```

At first blush, it may seem preferable to deal with these exceptions in a single catch block, as follows:

```
try {
  doExchange();
}
catch (Exception e) {
  logger.error("doExchange failed", e);
}
```
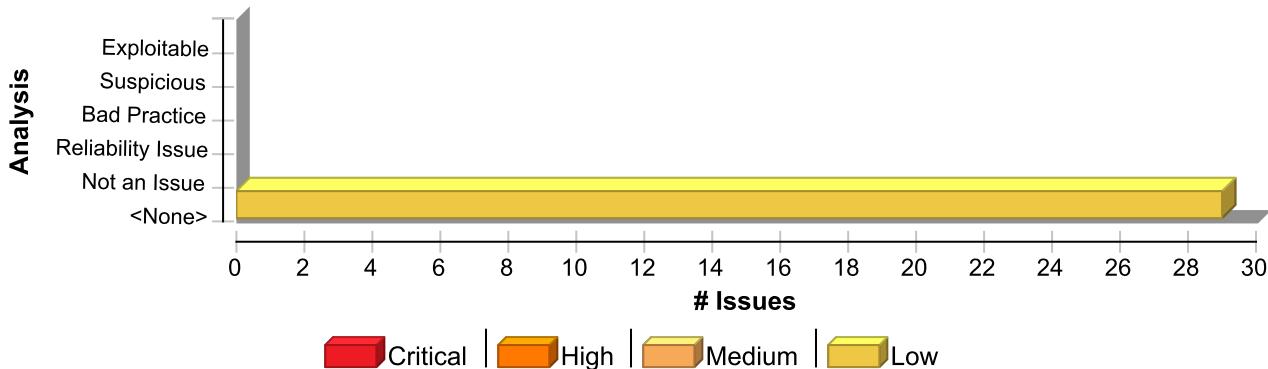
However, if `doExchange()` is modified to throw a new type of exception that should be handled in some different kind of way, the broad catch block will prevent the compiler from pointing out the situation. Further, the new catch block will now also handle exceptions derived from `RuntimeException` such as `ClassCastException`, and `NullPointerException`, which is not the programmer's intent.

Recommendation

Do not catch broad exception classes such as `Exception`, `Throwable`, `Error`, or `RuntimeException` except at the very top level of the program or thread.

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Poor Error Handling: Overly Broad Catch	29	0	0	29
Total	**29**	**0**	**0**	**29**

Poor Error Handling: Overly Broad Catch	Low

Package: gov.va.med.pharmacy.jaxrs.admin.service.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/admin/service/impl/ AppInfoSearchImpl.java, line 49 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: view()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/admin/service/impl/AppInfoSearchImpl.java:
49
Taint Flags:

```
46
47   searchResponse = appInfoDao.getAppInfo();
48
49   } catch (Exception e) {
50   searchResponse.setAppVersion("Unknown");
51
52   LOG.error("Error in AppInfoSearchImpl:"+e.getMessage());
```

Package: gov.va.med.pharmacy.jaxrs.drug.service.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/drug/service/impl/ DrugSearchImpl.java, line 54 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Poor Error Handling: Overly Broad Catch	Low

Package: gov.va.med.pharmacy.jaxrs.drug.service.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/drug/service/impl/ DrugSearchImpl.java, line 54 (Poor Error Handling: Overly Broad Catch)	Low

Sink: CatchBlock
Enclosing Method: search()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/drug/service/impl/DrugSearchImpl.java:54
Taint Flags:

```
51   searchResponse.setSuccess(searchResults.getSuccess());
52
53
54   } catch (Exception e) {
55   searchResponse.setSuccess(false);
56
57   searchResponse.setErrorMessage("Error while searching drug: " + e.getMessage());
```

Package: gov.va.med.pharmacy.jaxrs.eAnde.services.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ PatientInfoService.java, line 47 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: fetchEligibilityStatusByKey()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/PatientInfoService.java:47
Taint Flags:

```
44   // response.setEnrollmentStatus(getPatientInfoDao().lookupPatientByKey(
45   //request.getPatientInfo().getKey()).getEnrollmentStatus());
46   }
47   catch (Exception e)
48   {
49   response.setSuccess(false);
50   response.setErrorMessage(e.getClass() + ": " + e.getMessage());
```

Package: gov.va.med.pharmacy.jaxrs.inboundncpdpmessage.service.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 368 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Poor Error Handling: Overly Broad Catch	Low

Package: gov.va.med.pharmacy.jaxrs.inboundncpdpmessage.service.impl

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 368 (Poor Error Handling: Overly Broad Catch)	Low

Sink: CatchBlock
Enclosing Method: getInboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java:368
Taint Flags:

```
365
366  response = responseBuffer.toString();
367
368  } catch (Exception e) {
369
370  LOG.error("Error in InboundNCPDPMessageServiceImpl:" + e.getMessage());
371
```

Package: gov.va.med.pharmacy.jaxrs.mvi.service.impl

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/service/impl/ PatientSearchImpl.java, line 93 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: searchPatientByName()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/service/impl/PatientSearchImpl.java:93
Taint Flags:

```
90  break;
91  }
92
93  } catch (Exception e) {
94  LOG.error("Error in PatientSearchImpl:"+e.getMessage());
95
96  searchResponse.setSuccess(false);
```

Package: gov.va.med.pharmacy.jaxrs.outboundncpdpmessage.service.impl

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 198 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Poor Error Handling: Overly Broad Catch	Low

Package: gov.va.med.pharmacy.jaxrs.outboundncpdpmessage.service.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ **OutboundNCPDPMessageServiceImpl.java, line 198 (Poor Error Handling: Overly Broad Catch)**	Low

Sink Details

Sink: CatchBlock
Enclosing Method: sendOutboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/
OutboundNCPDPMessageServiceImpl.java:198
Taint Flags:

```
195   wsResponse.setSuccess(false);
196   }
197
198   } catch (Exception e) {
199
200   LOG.error("Error in OutboundNCPDPMessageServiceImpl:" + e.getMessage());
201
```

Package: gov.va.med.pharmacy.jaxrs.provider.service.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/provider/service/ impl/**ProviderSearchImpl.java, line 53 (Poor Error Handling: Overly Broad Catch)**	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: search()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/provider/service/impl/
ProviderSearchImpl.java:53
Taint Flags:

```
50
51
52
53   } catch (Exception e) {
54
55   LOG.error("Error in ProviderSearchImpl:"+e.getMessage());
56
```

Package: gov.va.med.pharmacy.jaxrs.vistaoutboundmsg.service.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/vistaoutboundmsg/ service/impl/**VistaOutboundMsgImpl.java, line 73 (Poor Error Handling: Overly Broad Catch)**	Low

Issue Details

Poor Error Handling: Overly Broad Catch	Low

Package: gov.va.med.pharmacy.jaxrs.vistaoutboundmsg.service.impl

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/vistaoutboundmsg/service/impl/VistaOutboundMsgImpl.java, line 73 (Poor Error Handling: Overly Broad Catch)	Low

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: persistMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/vistaoutboundmsg/service/impl/VistaOutboundMsgImpl.java:73
Taint Flags:

```
70   wsResponse.setOutboundMsgId(outboundMsgId);
71
72
73   } catch (Exception e) {
74
75   LOG.error("Error in VistaOutboundMsgImpl:"+e.getMessage());
76
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/vistaoutboundmsg/service/impl/VistaOutboundMsgImpl.java, line 119 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: persistXMLMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/vistaoutboundmsg/service/impl/VistaOutboundMsgImpl.java:119
Taint Flags:

```
116  wsResponse.setOutboundMsgId(outboundMsgId);
117
118
119  } catch (Exception e) {
120
121  LOG.error("Error in VistaOutboundMsgImpl:"+e.getMessage());
122
```

Poor Error Handling: Overly Broad Catch	Low
Package: gov.va.med.pharmacy.persistence.service.impl	

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/PharmacyMigrationServiceImpl.java, line 36 (Poor Error Handling: Overly Broad Catch)	**Low**

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: findByNCPDPId()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/PharmacyMigrationServiceImpl.java:36
Taint Flags:

```
33
34   pharmacyMigration = pharmacyMigrationDao.findByNCPDPId(NCPDPId);
35
36   } catch (Exception e) {
37
38
39   e.printStackTrace();
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/PharmacyServiceImpl.java, line 48 (Poor Error Handling: Overly Broad Catch)	**Low**

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: find()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/PharmacyServiceImpl.java:48
Taint Flags:

```
45
46
47
48   } catch (Exception e) {
49   // TODO Auto-generated catch block
50   e.printStackTrace();
51   }
```

Poor Error Handling: Overly Broad Catch	Low

Package: gov.va.med.pharmacy.persistence.service.impl	

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/PharmacyMigrationServiceImpl.java, line 57 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: findByKey()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/PharmacyMigrationServiceImpl.java:57
Taint Flags:

```
54
55    appConfiguration = appConfigurationDao.findByKey(key);
56
57  } catch (Exception e) {
58
59
60    e.printStackTrace();
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/PharmacyServiceImpl.java, line 69 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: findByNCPDPId()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/impl/PharmacyServiceImpl.java:69
Taint Flags:

```
66
67    filteredPharmacyEntity = filterPharmacyEntityForXSS(filteredPharmacyEntity,
pharmacyEntity);
68
69  } catch (Exception e) {
70  // TODO Auto-generated catch block
71    e.printStackTrace();
72  }
```

Poor Error Handling: Overly Broad Catch	Low

Package: gov.va.med.pharmacy.utility

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/ ESAPIValidator.java, line 257 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: isValidInput()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/ESAPIValidator.java:257
Taint Flags:

```
254   try {
255   validateStringInput(input, type);
256   return true;
257   } catch( Exception e ) {
258   return false;
259   }
260   }
```

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/ ESAPIValidator.java, line 98 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: validateStringInput()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/ESAPIValidator.java:98
Taint Flags:

```
95    input = input.replace('\n', ' ').replace('\r', ' ');
96    try {
97    return validator().getValidInput("logForging", input, "logForging", Integer.MAX_VALUE,
false, false);
98    } catch (Exception e) {
99    return null;
100   }
101   // commented out as not currently used and for Fortify code quality fix.
```

Package: gov.va.med.pharmacy.web.administration

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 623 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Poor Error Handling: Overly Broad Catch	Low

Package: gov.va.med.pharmacy.web.administration	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 623 (Poor Error Handling: Overly Broad Catch)	**Low**

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: processForm()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/UserManagementController.java: 623
Taint Flags:

```
620
621   // one exception for any error (add, update or delete).
622
623   } catch (Exception ex) {
624   result.addError(new ObjectError(USER_MANAGEMENT_MODEL, "A system problem is preventing
the action to update the user at this time. Please report this error to the production
support."));
625
626   }
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 323 (Poor Error Handling: Overly Broad Catch)	**Low**

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: updatePharmacy()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java:323
Taint Flags:

```
320   errorsList.add("Update Failed. Unable to save record. Please contact production
support.");
321   }
322   }
323   catch (Exception e) {
324
325   e.printStackTrace();
326
```

Poor Error Handling: Overly Broad Catch	Low

Package: gov.va.med.pharmacy.web.administration	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 735 (Poor Error Handling: Overly Broad Catch)	**Low**

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: processForm()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/UserManagementController.java: 735
Taint Flags:

```
732  }
733
734
735  } catch (Exception ex) {
736
737  result.addError(new ObjectError(USER_MANAGEMENT_MODEL, "A system problem is preventing
the action to add a new user at this time. Please report this error to the production
support."));
738  responseMessage.setSuccessMessage("");
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 645 (Poor Error Handling: Overly Broad Catch)	**Low**

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: addNewPharmacy()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java:645
Taint Flags:

```
642
643  hasErrors = true;
644  }
645  catch (Exception e) {
646
647  e.printStackTrace();
648
```

Poor Error Handling: Overly Broad Catch	Low

Package: gov.va.med.pharmacy.web.administration	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 158 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: getPharmacyList()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java:158
Taint Flags:

```
155  pharmacyList =
pharmacyService.findSelectedPharmacies(managePharmacyFilter,stationIdsList);
156  }
157
158  } catch (Exception e) {
159  // TODO Auto-generated catch block
160  e.printStackTrace();
161  }
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 783 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: csvExport()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java:783
Taint Flags:

```
780  response.getOutputStream().flush();
781
782
783  } catch (Exception e) {
784  // TODO Auto-generated catch block
785  e.printStackTrace();
786  }
```

Poor Error Handling: Overly Broad Catch

	Low

Package: gov.va.med.pharmacy.web.auth

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/ LoginController.java, line 137 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: authenticateUser()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/LoginController.java:137
Taint Flags:

```
134  } catch (IntrusionException e) {
135  // TODO Auto-generated catch block
136  e.printStackTrace();
137  } catch (Exception e) {
138  // TODO Auto-generated catch block
139  e.printStackTrace();
140  }
```

Package: gov.va.med.pharmacy.web.reports

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ AutoCheckReportController.java, line 170 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: csvExport()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/AutoCheckReportController.java:170
Taint Flags:

```
167  response.getOutputStream().flush();
168
169
170  } catch (Exception e) {
171  // TODO Auto-generated catch block
172  e.printStackTrace();
173  }
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ ErxSummaryReportController.java, line 171 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Poor Error Handling: Overly Broad Catch	Low
Package: gov.va.med.pharmacy.web.reports	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ ErxSummaryReportController.java, line 171 (Poor Error Handling: Overly Broad Catch)	Low

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: csvExport()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ErxSummaryReportController.java:171
Taint Flags:

```
168   response.getOutputStream().flush();
169
170
171   } catch (Exception e) {
172   // TODO Auto-generated catch block
173   e.printStackTrace();
174   }
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ SummaryReportController.java, line 176 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: csvExport()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/SummaryReportController.java:176
Taint Flags:

```
173   response.getOutputStream().flush();
174
175
176   } catch (Exception e) {
177   // TODO Auto-generated catch block
178   e.printStackTrace();
179   }
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ RejectReasonsReportController.java, line 172 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Poor Error Handling: Overly Broad Catch	Low

Package: gov.va.med.pharmacy.web.reports	
PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/ RejectReasonsReportController.java, line 172 (Poor Error Handling: Overly Broad Catch)	**Low**

Sink Details

Sink: CatchBlock
Enclosing Method: csvExport()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/reports/RejectReasonsReportController.java:
172
Taint Flags:

```
169  response.getOutputStream().flush();
170
171
172  } catch (Exception e) {
173  // TODO Auto-generated catch block
174  e.printStackTrace();
175  }
```

Package: gov.va.med.pharmacy.web.track	
PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/ TrackRxController.java, line 306 (Poor Error Handling: Overly Broad Catch)	**Low**

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: csvExport()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/TrackRxController.java:306
Taint Flags:

```
303
304  response.getOutputStream().flush();
305
306  } catch (Exception e) {
307  // TODO Auto-generated catch block
308  e.printStackTrace();
309  }
```

Package: gov.va.med.pharmacy.wsclients.eAnde	
PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortService.java, line 33 (Poor Error Handling: Overly Broad Catch)	**Low**

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Poor Error Handling: Overly Broad Catch	Low

Package: gov.va.med.pharmacy.wsclients.eAnde

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/ EeSummaryPortService.java, line 33 (Poor Error Handling: Overly Broad Catch)	Low

Sink Details

Sink: CatchBlock
Enclosing Method: ()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/eAnde/
EeSummaryPortService.java:33
Taint Flags:

```
30  URL url = null;
31  try {
32  url = EeSummaryPortService.class.getResource("wsdl/eAnde/eeSummary.wsdl");
33  } catch (Exception e) {
34  java.util.logging.Logger.getLogger(EeSummaryPortService.class.getName())
35  .log(java.util.logging.Level.INFO,
36  "Can not initialize the default wsdl from {0}", "wsdl/eAnde/eeSummary.wsdl");
```

Package: gov.va.med.pharmacy.wsclients.mvi

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/mvi/ VAIdM.java, line 30 (Poor Error Handling: Overly Broad Catch)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: CatchBlock
Enclosing Method: ()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/wsclients/mvi/VAIdM.java:30
Taint Flags:

```
27  URL url = null;
28  try {
29  url = VAIdM.class.getResource("wsdl/mvi/PREeRX_IdmHl7v3_FlatFile.wsdl");
30  } catch (Exception e) {
31  java.util.logging.Logger.getLogger(VAIdM.class.getName())
32  .log(java.util.logging.Level.INFO,
33  "Can not initialize the default wsdl from {0}", "wsdl/mvi/PREeRX_IdmHl7v3_FlatFile.wsdl");
```

Poor Error Handling: Overly Broad Throws (17 issues)

Abstract

The method throws a generic exception making it harder for callers to do a good job of error handling and recovery.

Explanation

Declaring a method to throw `Exception` or `Throwable` makes it difficult for callers to do good error handling and error recovery. Java's exception mechanism is set up to make it easy for callers to anticipate what can go wrong and write code to handle each specific exceptional circumstance. Declaring that a method throws a generic form of exception defeats this system. **Example:** The following method throws three types of exceptions.

```
public void doExchange()
   throws IOException, InvocationTargetException,
       SQLException {
  ...
}
```

While it might seem tidier to write
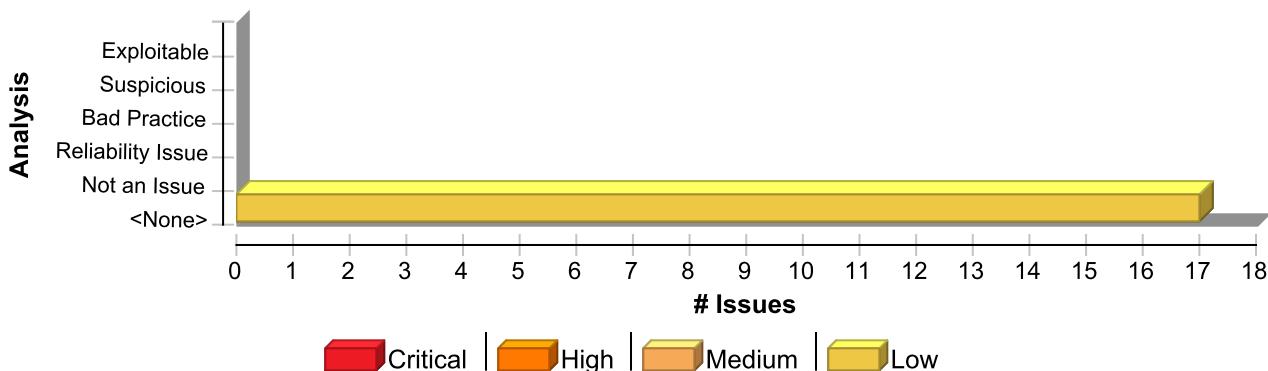
```
public void doExchange()
   throws Exception {
  ...
}
```

doing so hampers the caller's ability to understand and handle the exceptions that occur. Further, if a later revision of `doExchange()` introduces a new type of exception that should be treated differently than previous exceptions, there is no easy way to enforce this requirement.

Recommendation

Do not declare methods to throw `Exception` or `Throwable`. If the exceptions thrown by a method are not recoverable or should not generally be caught by the caller, consider throwing unchecked exceptions rather than checked exceptions. This can be accomplished by implementing exception classes that extend `RuntimeException` or `Error` instead of `Exception`, or add a try/catch wrapper in your method to convert checked exceptions to unchecked exceptions.

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Poor Error Handling: Overly Broad Throws	17	0	0	17
Total	**17**	**0**	**0**	**17**

Poor Error Handling: Overly Broad Throws	Low

Package: gov.va.med.pharmacy.jaxrs.drug.dao	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/drug/dao/ DrugSearchDao.java, line 13 (Poor Error Handling: Overly Broad Throws)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: Function: lookupDrug
Enclosing Method: lookupDrug()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/drug/dao/DrugSearchDao.java:13
Taint Flags:

```
10   * @return
11   * @throws Exception
12   */
13   public Drug lookupDrug(Drug drugObj) throws Exception;
14  }
15
16  undefined
```

Package: gov.va.med.pharmacy.jaxrs.drug.dao.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/drug/dao/impl/ DrugRpc.java, line 27 (Poor Error Handling: Overly Broad Throws)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: Function: lookupDrug
Enclosing Method: lookupDrug()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/drug/dao/impl/DrugRpc.java:27
Taint Flags:

```
24   this.vistaLinkConnectionUtility = vistaLinkConnectionUtility;
25   }
26
27   public Drug lookupDrug(Drug searchObj) throws Exception {
28
29   Drug searchResults = new Drug();
30   //inject
```

Poor Error Handling: Overly Broad Throws	Low

Package: gov.va.med.pharmacy.jaxrs.eAnde.dao	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/dao/ PatientInfoDao.java, line 7 (Poor Error Handling: Overly Broad Throws)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: Function: lookupPatientByKey
Enclosing Method: lookupPatientByKey()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/dao/PatientInfoDao.java:7
Taint Flags:

```
4
5 public interface PatientInfoDao {
6
7   public PatientInfo lookupPatientByKey(String key) throws Exception;
8 }
9
10 undefined
```

Package: gov.va.med.pharmacy.jaxrs.eAnde.services.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 57 (Poor Error Handling: Overly Broad Throws)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: Function: returnResponse
Enclosing Method: returnResponse()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/EESummary_Client.java:
57
Taint Flags:

```
54   private static final String KEYSTORE_FILE_NAME_PROPERTY = "keystore.filename";
55   private static final String KEYSTORE_PASSWD_PROPERTY = "keystore.password";
56
57   public getEESummaryResponse returnResponse(String key) throws java.lang.Exception {
58
59   Properties properties = new Properties();
60
```

Package: gov.va.med.pharmacy.jaxrs.mvi.dao	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/ PatientSearchDao.java, line 15 (Poor Error Handling: Overly Broad Throws)	Low

Issue Details

Poor Error Handling: Overly Broad Throws	Low

Package: gov.va.med.pharmacy.jaxrs.mvi.dao	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/ PatientSearchDao.java, line 15 (Poor Error Handling: Overly Broad Throws)	**Low**

Sink Details

Sink: Function: lookupPatientByName
Enclosing Method: lookupPatientByName()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/PatientSearchDao.java:15
Taint Flags:

```
12   * @return Patient
13   * @throws Exception
14   */
15   public Patient lookupPatientByName(Patient patientObj) throws Exception;
16  }
17
18  undefined
```

Package: gov.va.med.pharmacy.jaxrs.mvi.dao.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 149 (Poor Error Handling: Overly Broad Throws)	**Low**

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: Function: getMVIData
Enclosing Method: getMVIData()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:149
Taint Flags:

```
146   //@Autowired
147   //private Environment environment;
148
149   public Patient getMVIData(Patient patientSearchObj) throws java.lang.Exception {
150
151   // The following prints out a lot of debug information.
152   // It should only be uncommented in dev environment or for
```

Package: gov.va.med.pharmacy.jaxrs.provider.dao	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/provider/dao/ ProviderSearchDao.java, line 14 (Poor Error Handling: Overly Broad Throws)	**Low**

Issue Details

Kingdom: Errors

Poor Error Handling: Overly Broad Throws	Low

Package: gov.va.med.pharmacy.jaxrs.provider.dao	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/provider/dao/ ProviderSearchDao.java, line 14 (Poor Error Handling: Overly Broad Throws)	**Low**

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: lookupProvider
Enclosing Method: lookupProvider()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/provider/dao/ProviderSearchDao.java:14
Taint Flags:

```
11   * @return Provider
12   * @throws Exception
13   */
14   public Provider lookupProvider(Provider providerObj) throws Exception;
15  }
16
17  undefined
```

Package: gov.va.med.pharmacy.jaxrs.provider.dao.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/provider/dao/impl/ ProviderRPC.java, line 19 (Poor Error Handling: Overly Broad Throws)	**Low**

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: Function: lookupProvider
Enclosing Method: lookupProvider()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/provider/dao/impl/ProviderRPC.java:19
Taint Flags:

```
16
17   private static final org.apache.logging.log4j.Logger LOG =
org.apache.logging.log4j.LogManager.getLogger(ProviderRPC.class);
18
19   public Provider lookupProvider(Provider searchObj) throws Exception {
20
21   Provider searchResults = new Provider();
22
```

Package: gov.va.med.pharmacy.persistence.service	
PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/ UserService.java, line 21 (Poor Error Handling: Overly Broad Throws)	**Low**

Issue Details

Kingdom: Errors

Poor Error Handling: Overly Broad Throws	Low

Package: gov.va.med.pharmacy.persistence.service	

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/ UserService.java, line 21 (Poor Error Handling: Overly Broad Throws)	Low

Scan Engine: SCA (Structural)

Sink Details

Sink: Function: updateUsers
Enclosing Method: updateUsers()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/UserService.java:21
Taint Flags:

```
18
19   public void updateUserInfo(VaUser user) throws Exception;
20
21   public void updateUsers(List<VaUser> users) throws Exception;
22
23   public void enableDisableteUsers(List<VaUser> users) throws Exception;
24
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/ UserService.java, line 23 (Poor Error Handling: Overly Broad Throws)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: Function: enableDisableteUsers
Enclosing Method: enableDisableteUsers()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/UserService.java:23
Taint Flags:

```
20
21   public void updateUsers(List<VaUser> users) throws Exception;
22
23   public void enableDisableteUsers(List<VaUser> users) throws Exception;
24
25   public List<VaUser> getUsersByStationIds(String stationIds, List<String> stationIdsList);
26 }
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/ OutboundNcpdpMsgService.java, line 7 (Poor Error Handling: Overly Broad Throws)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Poor Error Handling: Overly Broad Throws	Low
Package: gov.va.med.pharmacy.persistence.service	

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/OutboundNcpdpMsgService.java, line 7 (Poor Error Handling: Overly Broad Throws)	Low

Sink: Function: saveOutboundMsg
Enclosing Method: saveOutboundMsg()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/OutboundNcpdpMsgService.java:7
Taint Flags:

```
4
5  public interface OutboundNcpdpMsgService {
6
7    public long saveOutboundMsg(OutboundNcpdpMsgEntity outboundMsg) throws Exception ;
8
9    public OutboundNcpdpMsgEntity findById(long id);
10 }
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/UserService.java, line 13 (Poor Error Handling: Overly Broad Throws)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: Function: addNewVAUser
Enclosing Method: addNewVAUser()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/UserService.java:13
Taint Flags:

```
10
11   public VaUser findByVAUserID(String networkID);
12
13   public void addNewVAUser(VaUser user) throws Exception;
14
15   public void updateVAUser(VaUser user) throws Exception;
16
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/PharmacyService.java, line 18 (Poor Error Handling: Overly Broad Throws)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: Function: findById
Enclosing Method: findById()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/PharmacyService.java:18

Poor Error Handling: Overly Broad Throws	Low

Package: gov.va.med.pharmacy.persistence.service	

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/ PharmacyService.java, line 18 (Poor Error Handling: Overly Broad Throws)	Low

Taint Flags:

```
15
16   public PharmacyEntity findByNCPDPId(String NCPDPId);
17
18   public PharmacyEntity findById(Long pharmacyId) throws Exception;
19
20   public void updatePharmacyInfo(PharmacyEntity pharmacy) throws HibernateException;
21
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/ InboundNcpdpMsgService.java, line 7 (Poor Error Handling: Overly Broad Throws)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: Function: saveInboundERx
Enclosing Method: saveInboundERx()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/ InboundNcpdpMsgService.java:7
Taint Flags:

```
4
5 public interface InboundNcpdpMsgService {
6
7   void saveInboundERx(InboundNcpdpMsgEntity inboundeRx) throws Exception ;
8
9 }
10
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/ UserService.java, line 15 (Poor Error Handling: Overly Broad Throws)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: Function: updateVAUser
Enclosing Method: updateVAUser()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/UserService.java:15
Taint Flags:

```
12
```

Poor Error Handling: Overly Broad Throws	Low

Package: gov.va.med.pharmacy.persistence.service	

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/ UserService.java, line 15 (Poor Error Handling: Overly Broad Throws)	Low

```
13   public void addNewVAUser(VaUser user) throws Exception;
14
15   public void updateVAUser(VaUser user) throws Exception;
16
17   public List<VaUser> findAllUsers();
18
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/ UserService.java, line 19 (Poor Error Handling: Overly Broad Throws)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: Function: updateUserInfo
Enclosing Method: updateUserInfo()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/UserService.java:19
Taint Flags:

```
16
17   public List<VaUser> findAllUsers();
18
19   public void updateUserInfo(VaUser user) throws Exception;
20
21   public void updateUsers(List<VaUser> users) throws Exception;
22
```

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/ PharmacyService.java, line 14 (Poor Error Handling: Overly Broad Throws)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: Function: find
Enclosing Method: find()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/PharmacyService.java:14
Taint Flags:

```
11
12 public interface PharmacyService {
13
14   public List<PharmacyEntity> find(ManagePharmacyFilter managePharmacyFilter) throws
Exception;
15
```

Poor Error Handling: Overly Broad Throws	Low
Package: gov.va.med.pharmacy.persistence.service	
PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/service/ PharmacyService.java, line 14 (Poor Error Handling: Overly Broad Throws)	Low

```
16    public PharmacyEntity findByNCPDPId(String NCPDPId);
17
```

Poor Error Handling: Throw Inside Finally (1 issue)

Abstract

Using a `throw` statement inside a `finally` block breaks the logical progression through the `try-catch-finally`.

Explanation

In Java, `finally` blocks are always executed after their corresponding `try-catch` blocks and are often used to free allocated resources, such as file handles or database cursors. Throwing an exception in a `finally` block can bypass critical cleanup code since normal program execution will be disrupted.

Example 1: In the following code, the call to `stmt.close()` is bypassed when the `FileNotFoundException` is thrown.

```
public void processTransaction(Connection conn) throws FileNotFoundException
{
    FileInputStream fis = null;
    Statement stmt = null;
    try
    {
        stmt = conn.createStatement();
        fis = new FileInputStream("badFile.txt");
        ...
    }
    catch (FileNotFoundException fe)
    {
        log("File not found.");
    }
    catch (SQLException se)
    {
        //handle error
    }
    finally
    {
        if (fis == null)
        {
            throw new FileNotFoundException();
        }

        if (stmt != null)
        {
            try
            {
                stmt.close();
            }
            catch (SQLException e)
            {
                log(e);
            }
        }
    }
}
```

This category is from the Cigital Java Rulepack. http://www.cigital.com/

Recommendation

Never throw exceptions from within `finally` blocks. If you must re-throw an exception, do it inside a
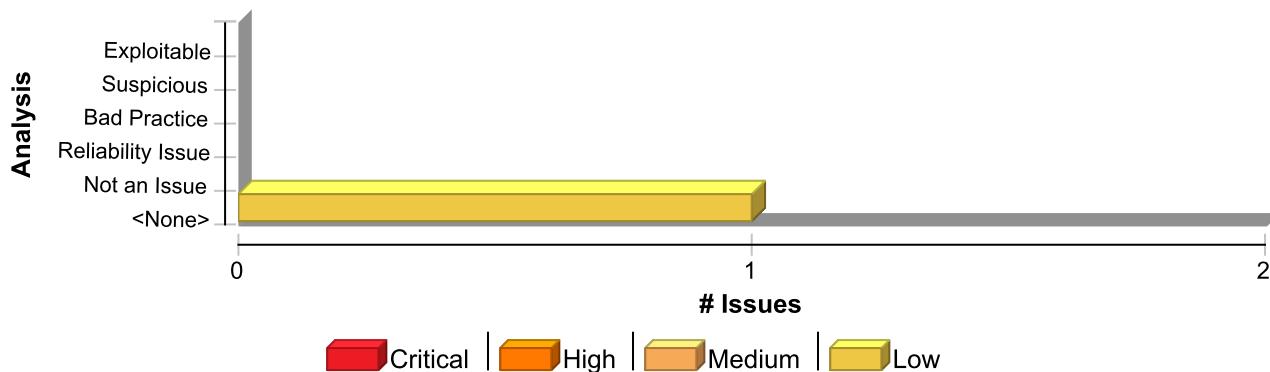
catch block so as not to interrupt the normal execution of the `finally` block. **Example 2:** The following
code re-throws the `FileNotFoundException` in the `catch` block.

```java
public void processTransaction(Connection conn) throws FileNotFoundException
{
    FileInputStream fis = null;
    Statement stmt = null;
    try
    {
        stmt = conn.createStatement();
        fis = new FileInputStream("badFile.txt");
        ...
    }
    catch (FileNotFoundException fe)
    {
        log("File not found.");
        throw fe;
    }
    catch (SQLException se)
    {
        //handle error
    }
    finally
    {
        if (fis != null)
        {
            try
            {
                fis.close();
            }
            catch (IOException ie)
            {
                log(ie);
            }
        }

        if (stmt != null)
        {
            try
            {
                stmt.close();
            }
            catch (SQLException e)
            {
                log(e);
            }
        }
    }
}
```

Issue Summary

Analysis (y-axis): Exploitable, Suspicious, Bad Practice, Reliability Issue, Not an Issue, <None>

 # Issues (x-axis): 0, 1, 2

Critical | High | Medium | Low

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Poor Error Handling: Throw Inside Finally	1	0	0	1
Total	**1**	**0**	**0**	**1**

Poor Error Handling: Throw Inside Finally	Low

Package: gov.va.med.pharmacy.utility	

PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/ VistaLinkConnectionUtility.java, line 160 (Poor Error Handling: Throw Inside Finally)	Low

Issue Details

Kingdom: Errors
Scan Engine: SCA (Structural)

Sink Details

Sink: FinallyBlock
Enclosing Method: getConnection()
File: PS_INB_ERX_Common/src/main/java/gov/va/med/pharmacy/utility/VistaLinkConnectionUtility.java:160
Taint Flags:

```
157   catch (ResourceException e) {
158   //LOG.error("VistALink error while retrieving connection.", e);
159   throw new ResourceException(e);
160   }finally {
161   if (ic != null){
162   ic.close();
163   };
```

Poor Style: Value Never Read (31 issues)

Abstract

The variable's value is assigned but never used, making it a dead store.

Explanation
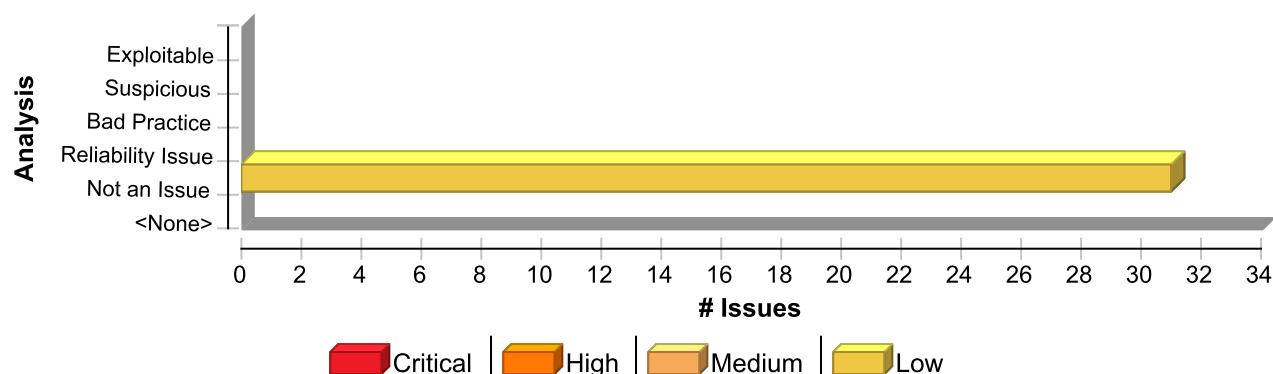
This variable's value is not used. After the assignment, the variable is either assigned another value or goes out of scope. **Example:** The following code excerpt assigns to the variable `r` and then overwrites the value without using it.

```
r = getName();
r = getNewBuffer(buf);
```

Recommendation

Remove unnecessary assignments in order to make the code easier to understand and maintain.

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Poor Style: Value Never Read	31	0	0	31
Total	**31**	**0**	**0**	**31**

Poor Style: Value Never Read	Low
Package: gov.va.med.pharmacy.jaxrs.eAnde.services.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 173 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)

Poor Style: Value Never Read	Low

Package: gov.va.med.pharmacy.jaxrs.eAnde.services.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 173 (Poor Style: Value Never Read)	Low

Audit Comments

Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: file
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/EESummary_Client.java: 173
Taint Flags:

```
170   StreamUtilities.safeClose(fileIn2);
171   }
172
173   file = null;
174   tlsCP = null;
175   fileIn2 = null;
176   }
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 175 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:20:19 GMT-0500 (EST)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: fileIn2
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/EESummary_Client.java: 175
Taint Flags:

```
172
173   file = null;
174   tlsCP = null;
175   fileIn2 = null;
176   }
177
178
```

Poor Style: Value Never Read	Low

Package: gov.va.med.pharmacy.jaxrs.eAnde.services.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/ EESummary_Client.java, line 174 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis	Not an Issue

Audit Comments

VHAHAMWandlJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: tlsCP
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/eAnde/services/impl/EESummary_Client.java: 174
Taint Flags:

```
171  }
172
173  file = null;
174  tlsCP = null;
175  fileIn2 = null;
176  }
177
```

Package: gov.va.med.pharmacy.jaxrs.inboundncpdpmessage.service.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 405 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis	Not an Issue

Audit Comments

VHAHAMWandlJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: relatesToMessageID
Enclosing Method: getInboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/inboundncpdpmessage/service/impl/ InboundNCPDPMessageServiceImpl.java:405
Taint Flags:

```
402  StreamUtilities.safeClose(inputStream);
```

Poor Style: Value Never Read	Low

Package: gov.va.med.pharmacy.jaxrs.inboundncpdpmessage.service.impl

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 405 (Poor Style: Value Never Read)	Low

```
403
404   inboundeRx = null;
405   relatesToMessageID = null;
406   messageFrom = null;
407   messageTo = null;
408   incomingMessageID = null;
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 406 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandlJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: messageFrom
Enclosing Method: getInboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/inboundncpdpmessage/service/impl/ InboundNCPDPMessageServiceImpl.java:406
Taint Flags:

```
403
404   inboundeRx = null;
405   relatesToMessageID = null;
406   messageFrom = null;
407   messageTo = null;
408   incomingMessageID = null;
409
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 411 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Poor Style: Value Never Read	Low

Package: gov.va.med.pharmacy.jaxrs.inboundncpdpmessage.service.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 411 (Poor Style: Value Never Read)	Low

Audit Comments

VHAHAMWandIJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: xsdStreamSource
Enclosing Method: getInboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java:411
Taint Flags:

```
408   incomingMessageID = null;
409
410   xsdSource = null;
411   xsdStreamSource = null;
412   responseBuffer = null;
413   }
414
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 412 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis	Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: responseBuffer
Enclosing Method: getInboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java:412
Taint Flags:

```
409
410   xsdSource = null;
411   xsdStreamSource = null;
412   responseBuffer = null;
413   }
414
415   return response;
```

Poor Style: Value Never Read	Low

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 412 (Poor Style: Value Never Read)	Low

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 404 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: inboundeRx
Enclosing Method: getInboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/inboundncpdpmessage/service/impl/ InboundNCPDPMessageServiceImpl.java:404
Taint Flags:

```
401
402   StreamUtilities.safeClose(inputStream);
403
404   inboundeRx = null;
405   relatesToMessageID = null;
406   messageFrom = null;
407   messageTo = null;
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 408 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: incomingMessageID

Poor Style: Value Never Read	Low
Package: gov.va.med.pharmacy.jaxrs.inboundncpdpmessage.service.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 408 (Poor Style: Value Never Read)	Low

Enclosing Method: getInboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java:408
Taint Flags:

```
405   relatesToMessageID = null;
406   messageFrom = null;
407   messageTo = null;
408   incomingMessageID = null;
409
410   xsdSource = null;
411   xsdStreamSource = null;
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 410 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: xsdSource
Enclosing Method: getInboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java:410
Taint Flags:

```
407   messageTo = null;
408   incomingMessageID = null;
409
410   xsdSource = null;
411   xsdStreamSource = null;
412   responseBuffer = null;
413   }
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 407 (Poor Style: Value Never Read)	Low

Issue Details

Poor Style: Value Never Read	Low

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ inboundncpdpmessage/service/impl/InboundNCPDPMessageServiceImpl.java, line 407 (Poor Style: Value Never Read)	Low

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis	Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: messageTo
Enclosing Method: getInboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/inboundncpdpmessage/service/impl/ InboundNCPDPMessageServiceImpl.java:407
Taint Flags:

```
404   inboundeRx = null;
405   relatesToMessageID = null;
406   messageFrom = null;
407   messageTo = null;
408   incomingMessageID = null;
409
410   xsdSource = null;
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 685 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis	Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: returnedGivenNameElement
Enclosing Method: getMVIData()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:685
Taint Flags:

```
682
683   // clean up.
684   returnedElement = null;
```

Poor Style: Value Never Read	Low

Package: gov.va.med.pharmacy.jaxrs.mvi.dao.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 685 (Poor Style: Value Never Read)	Low

```
685   returnedGivenNameElement = null;
686   returnedFamilyNameElement = null;
687   stationIds = null;
688   givenNameQName = null;
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 691 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: ICN
Enclosing Method: getMVIData()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:691
Taint Flags:

```
688   givenNameQName = null;
689   familyNameQName = null;
690
691   ICN = null;
692   mviRequestObj = null;
693   mviResponseObj = null;
694   acknowledgementCode = null;
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 688 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: givenNameQName

Poor Style: Value Never Read	Low

| Package: gov.va.med.pharmacy.jaxrs.mvi.dao.impl | |

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 688 (Poor Style: Value Never Read)	Low

Enclosing Method: getMVIData()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:688
Taint Flags:

```
685   returnedGivenNameElement = null;
686   returnedFamilyNameElement = null;
687   stationIds = null;
688   givenNameQName = null;
689   familyNameQName = null;
690
691   ICN = null;
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 694 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandlJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: acknowledgementCode
Enclosing Method: getMVIData()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:694
Taint Flags:

```
691   ICN = null;
692   mviRequestObj = null;
693   mviResponseObj = null;
694   acknowledgementCode = null;
695   dateOfBirth = null;
696
697   } // End Happy Path
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 776 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Poor Style: Value Never Read	Low

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 776 (Poor Style: Value Never Read)	Low

Audit Comments

VHAHAMWandlJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: tlsCP
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:776
Taint Flags:

```
773  }
774
775  file = null;
776  tlsCP = null;
777
778
779  }
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 692 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandlJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: mviRequestObj
Enclosing Method: getMVIData()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:692
Taint Flags:

```
689  familyNameQName = null;
690
691  ICN = null;
692  mviRequestObj = null;
693  mviResponseObj = null;
694  acknowledgementCode = null;
695  dateOfBirth = null;
```

Poor Style: Value Never Read	Low

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 686 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandlJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: returnedFamilyNameElement
Enclosing Method: getMVIData()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:686
Taint Flags:

```
683   // clean up.
684   returnedElement = null;
685   returnedGivenNameElement = null;
686   returnedFamilyNameElement = null;
687   stationIds = null;
688   givenNameQName = null;
689   familyNameQName = null;
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 684 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandlJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: returnedElement
Enclosing Method: getMVIData()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:684
Taint Flags:

```
681   patientSearchResults.setQueryReturnCode(acknowledgementCode);
682
683   // clean up.
684   returnedElement = null;
685   returnedGivenNameElement = null;
```

Poor Style: Value Never Read	Low

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 684 (Poor Style: Value Never Read)	Low

```
686   returnedFamilyNameElement = null;
687   stationIds = null;
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 689 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: familyNameQName
Enclosing Method: getMVIData()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:689
Taint Flags:

```
686   returnedFamilyNameElement = null;
687   stationIds = null;
688   givenNameQName = null;
689   familyNameQName = null;
690
691   ICN = null;
692   mviRequestObj = null;
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 693 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: mviResponseObj
Enclosing Method: getMVIData()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:693

Poor Style: Value Never Read	Low

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 693 (Poor Style: Value Never Read)	Low

Taint Flags:

```
690
691   ICN = null;
692   mviRequestObj = null;
693   mviResponseObj = null;
694   acknowledgementCode = null;
695   dateOfBirth = null;
696
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 757 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:20:19 GMT-0500 (EST)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: fileIn1
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:757
Taint Flags:

```
754   StreamUtilities.safeClose(fileIn1);
755   }
756
757   fileIn1 = null;
758   }
759
760   try {
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 772 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Poor Style: Value Never Read	Low

Package: gov.va.med.pharmacy.jaxrs.mvi.dao.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 772 (Poor Style: Value Never Read)	Low

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:20:19 GMT-0500 (EST)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: fileIn2
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:772
Taint Flags:

```
769   StreamUtilities.safeClose(fileIn2);
770   }
771
772   fileIn2 = null;
773   }
774
775   file = null;
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 687 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandlJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: stationIds
Enclosing Method: getMVIData()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:687
Taint Flags:

```
684   returnedElement = null;
685   returnedGivenNameElement = null;
686   returnedFamilyNameElement = null;
687   stationIds = null;
688   givenNameQName = null;
689   familyNameQName = null;
690
```

Poor Style: Value Never Read	Low

Package: gov.va.med.pharmacy.jaxrs.mvi.dao.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 775 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: file
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:775
Taint Flags:

```
772   fileIn2 = null;
773   }
774
775   file = null;
776   tlsCP = null;
777
778
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 695 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: dateOfBirth
Enclosing Method: getMVIData()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/MVIClient.java:695
Taint Flags:

```
692   mviRequestObj = null;
693   mviResponseObj = null;
694   acknowledgementCode = null;
695   dateOfBirth = null;
696
```

Poor Style: Value Never Read	Low

Package: gov.va.med.pharmacy.jaxrs.mvi.dao.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/dao/impl/ MVIClient.java, line 695 (Poor Style: Value Never Read)	**Low**

```
697   } // End Happy Path
698   else if (QE_STATUS.equalsIgnoreCase(acknowledgementCode)) {
```

Package: gov.va.med.pharmacy.jaxrs.outboundncpdpmessage.service.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 276 (Poor Style: Value Never Read)	**Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:20:19 GMT-0500 (EST)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: fileIn2
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java:276
Taint Flags:

```
273   StreamUtilities.safeClose(fileIn2);
274   }
275
276   fileIn2 = null;
277   }
278
279   file = null;
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 280 (Poor Style: Value Never Read)	**Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)

Poor Style: Value Never Read	Low

Package: gov.va.med.pharmacy.jaxrs.outboundncpdpmessage.service.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 280 (Poor Style: Value Never Read)	Low

Audit Comments

Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: tlsCP
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java:280
Taint Flags:

```
277   }
278
279   file = null;
280   tlsCP = null;
281
282   }
283
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 279 (Poor Style: Value Never Read)	Low

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: file
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java:279
Taint Flags:

```
276   fileIn2 = null;
277   }
278
279   file = null;
280   tlsCP = null;
281
```

Poor Style: Value Never Read	Low

Package: gov.va.med.pharmacy.jaxrs.outboundncpdpmessage.service.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 279 (Poor Style: Value Never Read)	**Low**

```
282   }
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 261 (Poor Style: Value Never Read)	**Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHADURButtS: Wed Nov 07 2018 14:20:19 GMT-0500 (EST)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Sink Details

Sink: VariableAccess: fileIn1
Enclosing Method: setupTLS()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java:261
Taint Flags:

```
258   StreamUtilities.safeClose(fileIn1);
259   }
260
261   fileIn1 = null;
262   }
263
264   try {
```

Package: gov.va.med.pharmacy.web.administration	
PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 134 (Poor Style: Value Never Read)	**Low**

Issue Details

Kingdom: Code Quality
Scan Engine: SCA (Structural)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Mar 13 2018 14:32:37 GMT-0400 (EDT)
Explicitly assigning a null value to variables that are no longer needed to aid garbage collection.

Poor Style: Value Never Read	Low

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 134 (Poor Style: Value Never Read)	Low

Sink Details

Sink: VariableAccess: tempBuf
Enclosing Method: getAllStationIds()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/UserManagementController.java: 134
Taint Flags:

131	
132	}
133	
134	tempBuf = null;
135	return stationIdsList;
136	}
137	

SQL Injection (1 issue)

Abstract

Constructing a dynamic SQL statement with input that comes from an untrusted source could allow an attacker to modify the statement's meaning or to execute arbitrary SQL commands.

Explanation

SQL injection errors occur when: 1. Data enters a program from an untrusted source. In this case, Fortify Static Code Analyzer could not determine that the source of the data is trusted. 2. The data is used to dynamically construct a SQL query. **Example 1:** The following code dynamically constructs and executes a SQL query that searches for items matching a specified name. The query restricts the items displayed to those where the owner matches the user name of the currently-authenticated user.

```
...
    String userName = ctx.getAuthenticatedUserName();
    String itemName = request.getParameter("itemName");
    String query = "SELECT * FROM items WHERE owner = '"
                 + userName + "' AND itemname = '"
                 + itemName + "'";
    ResultSet rs = stmt.execute(query);
...
```

The query intends to execute the following code:

```
    SELECT * FROM items
    WHERE owner = <userName>
    AND itemname = <itemName>;
```

However, because the query is constructed dynamically by concatenating a constant base query string and a user input string, the query only behaves correctly if `itemName` does not contain a single-quote character. If an attacker with the user name `wiley` enters the string "`name' OR 'a'='a`" for `itemName`, then the query becomes the following:

```
    SELECT * FROM items
    WHERE owner = 'wiley'
    AND itemname = 'name' OR 'a'='a';
```

The addition of the `OR 'a'='a'` condition causes the where clause to always evaluate to true, so the query becomes logically equivalent to the much simpler query:

```
    SELECT * FROM items;
```

This simplification of the query allows the attacker to bypass the requirement that the query only return items owned by the authenticated user. The query now returns all entries stored in the `items` table, regardless of their specified owner. **Example 2:** This example examines the effects of a different malicious value passed to the query constructed and executed in Example 1. If an attacker with the user name `wiley` enters the string "`name'; DELETE FROM items; --`" for `itemName`, then the query becomes the following two queries:

```
    SELECT * FROM items
    WHERE owner = 'wiley'
    AND itemname = 'name';

    DELETE FROM items;

    --'
```

Many database servers, including Microsoft(R) SQL Server 2000, allow multiple SQL statements separated by semicolons to be executed at once. While this attack string results in an error on Oracle and other database servers that do not allow the batch-execution of statements separated by semicolons, on databases that do allow batch execution, this type of attack allows the attacker to execute arbitrary commands against the database. Notice the trailing pair of hyphens (--), which specifies to most database servers that the remainder of the statement is to be treated as a comment and not executed [4]. In this

case the comment character serves to remove the trailing single-quote left over from the modified query. On a database where comments are not allowed to be used in this way, the general attack could still be made effective using a trick similar to the one used in Example 1. If an attacker enters the string "`name'`); `DELETE FROM items; SELECT * FROM items WHERE 'a'='a`", the following three valid statements will be created:

```
SELECT * FROM items
WHERE owner = 'wiley'
AND itemname = 'name';

DELETE FROM items;

SELECT * FROM items WHERE 'a'='a';
```

Some think that in the mobile world, classic web application vulnerabilities, such as SQL injection, 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 3: The following code adapts Example 1 to the Android platform.

```
...
        PasswordAuthentication pa = authenticator.getPasswordAuthentication();
        String userName = pa.getUserName();
        String itemName = this.getIntent().getExtras().getString("itemName");
        String query = "SELECT * FROM items WHERE owner = '"
                                + userName + "' AND itemname = '"
                                + itemName + "'";
        SQLiteDatabase db = this.openOrCreateDatabase("DB", MODE_PRIVATE,
null);
        Cursor c = db.rawQuery(query, null);
...
```

One traditional approach to preventing SQL injection attacks is to handle them as an input validation problem and either accept only characters from a whitelist of safe values or identify and escape a blacklist of potentially malicious values. Whitelisting can be a very effective means of enforcing strict input validation rules, but parameterized SQL statements require less maintenance and can offer more guarantees with respect to security. As is almost always the case, blacklisting is riddled with loopholes that make it ineffective at preventing SQL injection attacks. For example, attackers may: - Target fields that are not quoted - Find ways to bypass the need for certain escaped meta-characters - Use stored procedures to hide the injected meta-characters Manually escaping characters in input to SQL queries can help, but it will not make your application secure from SQL injection attacks. Another solution commonly proposed for dealing with SQL injection attacks is to use stored procedures. Although stored procedures prevent some types of SQL injection attacks, they fail to protect against many others. Stored procedures typically help prevent SQL injection attacks by limiting the types of statements that can be passed to their parameters. However, there are many ways around the limitations and many interesting statements that can still be passed to stored procedures. Again, stored procedures can prevent some exploits, but they will not make your application secure against SQL injection attacks.

Recommendation

The root cause of a SQL injection vulnerability is the ability of an attacker to change context in the SQL query, causing a value that the programmer intended to be interpreted as data to be interpreted as a command instead. When a SQL query is constructed, the programmer knows what should be interpreted as part of the command and what should be interpreted as data. Parameterized SQL statements can enforce this behavior by disallowing data-directed context changes and preventing nearly all SQL injection attacks. Parameterized SQL statements are constructed using strings of regular SQL, but when user-supplied data needs to be included, they create bind parameters, which are placeholders for data that is subsequently inserted. Bind parameters allow the program to explicitly specify to the database what should be treated as a command and what should be treated as data. When the program is ready to execute a statement, it specifies to the database the runtime values to use for the value of each of the bind

parameters, without the risk of the data being interpreted as commands. Example 1 can be rewritten to use parameterized SQL statements (instead of concatenating user supplied strings) as follows:
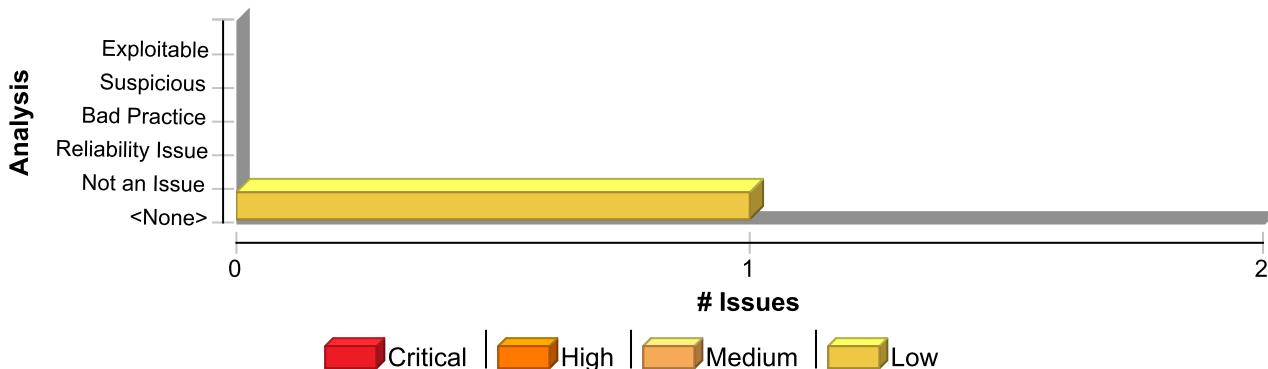
```
...
    String userName = ctx.getAuthenticatedUserName();
    String itemName = request.getParameter("itemName");
    String query =
            "SELECT * FROM items WHERE itemname=? AND owner=?";
    PreparedStatement stmt = conn.prepareStatement(query);
    stmt.setString(1, itemName);
    stmt.setString(2, userName);
    ResultSet results = stmt.execute();
...
```

And here is an Android equivalent:

```
...
    PasswordAuthentication pa = authenticator.getPasswordAuthentication();
    String userName = pa.getUserName();
    String itemName = this.getIntent().getExtras().getString("itemName");
    String query = "SELECT * FROM items WHERE itemname=? AND owner=?";
    SQLiteDatabase db = this.openOrCreateDatabase("DB", MODE_PRIVATE, null);
    Cursor c = db.rawQuery(query, new Object[]{itemName, userName});
...
```

More complicated scenarios, often found in report generation code, require that user input affect the command structure of the SQL statement, such as the addition of dynamic constraints in the `WHERE` clause. Do not use this requirement to justify concatenating user input into query strings. Prevent SQL injection attacks where user input must affect statement command structure with a level of indirection: create a set of legitimate strings that correspond to different elements you might include in a SQL statement. When constructing a statement, use input from the user to select from this set of application-controlled values.

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
SQL Injection	1	0	0	1
Total	**1**	**0**	**0**	**1**

SQL Injection	Low
Package: gov.va.med.pharmacy.persistence.track.impl	
PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/ NcpdpMessagesDaoImpl.java, line 1378 (SQL Injection)	Low
Issue Details	

SQL Injection	Low

Package: gov.va.med.pharmacy.persistence.track.impl

PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/ NcpdpMessagesDaoImpl.java, line 1378 (SQL Injection)	Low

Kingdom: Input Validation and Representation
Scan Engine: SCA (Semantic)

Sink Details

Sink: query()
Enclosing Method: searchMessages()
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/
NcpdpMessagesDaoImpl.java:1378
Taint Flags:

```
1375  try {
1376  //LOG.info("Retrieving NCPDP message details.");
1377  //System.out.println("Retrieving NCPDP message details.");
1378  ncpdpMsgList = jdbcTemplate.query(sql,new NcpdpMsgListRowMapper(),messageId,
relatesToId, vaStationId, patientLastName, patientFirstName, prescriberLastName,
prescriberFirstName, prescriberDEA, prescriberNpi, prescribedDrug, inboundNcpdpMsgId);
1379  } catch (DataAccessException e) {
1380  //ncpdpMsg.setDataError(e.getMessage());
1381  //System.out.println("data error is:" + e.getMessage());
```

System Information Leak: External (8 issues)

Abstract

Revealing system data or debugging information helps an adversary learn about the system and form a plan of attack.

Explanation

An external information leak occurs when system data or debugging information leaves the program to a remote machine via a socket or network connection. External leaks can help an attacker by revealing specific data about operating systems, full pathnames, the existence of usernames, or locations of configuration files, and are more serious than internal information leaks which are more difficult for an attacker to access. **Example 1:** The following code leaks Exception information in the HTTP response:

```
protected void doPost (HttpServletRequest req, HttpServletResponse res) throws
IOException {
    ...
    PrintWriter out = res.getWriter();
    try {
        ...
    } catch (Exception e) {
        out.println(e.getMessage());
    }
}
```

This information can be exposed to a remote user. In some cases the error message tells the attacker precisely what sort of an attack the system is vulnerable to. For example, a database error message can reveal that the application is vulnerable to a SQL injection attack. Other error messages can reveal more oblique clues about the system. In the example above, the leaked information could imply information about the type of operating system, the applications installed on the system, and the amount of care that the administrators have put into configuring the program. In the mobile world, information leaks are also a concern. 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 is why application authors need to be careful about what information they include in messages addressed to other applications running on the device. **Example 2:** The code below broadcasts the stack trace of a caught exception to all the registered Android receivers.

```
...
try {
    ...
} catch (Exception e) {
    String exception = Log.getStackTraceString(e);
    Intent i = new Intent();
    i.setAction("SEND_EXCEPTION");
    i.putExtra("exception", exception);
    view.getContext().sendBroadcast(i);
}
...
```

Here is another scenario specific to the mobile world. Most mobile devices now implement a Near-Field Communication (NFC) protocol for quickly sharing information between devices using radio communication. It works by bringing devices to close proximity or simply having them touch each other. Even though the communication range of NFC is limited to just a few centimeters, eavesdropping, data modification and various other types of attacks are possible, since NFC alone does not ensure secure communication. **Example 3:** The Android platform provides support for NFC. The following code creates a message that gets pushed to the other device within the range.

```
...
public static final String TAG = "NfcActivity";
private static final String DATA_SPLITTER = "__:DATA:__";
```

```
private static final String MIME_TYPE = "application/my.applications.mimetype";
...
TelephonyManager tm =
(TelephonyManager)Context.getSystemService(Context.TELEPHONY_SERVICE);
String VERSION = tm.getDeviceSoftwareVersion();
...
NfcAdapter nfcAdapter = NfcAdapter.getDefaultAdapter(this);
if (nfcAdapter == null)
  return;

String text = TAG + DATA_SPLITTER + VERSION;
NdefRecord record = new NdefRecord(NdefRecord.TNF_MIME_MEDIA,
            MIME_TYPE.getBytes(), new byte[0], text.getBytes());
NdefRecord[] records = { record };
NdefMessage msg = new NdefMessage(records);
nfcAdapter.setNdefPushMessage(msg, this);
...
```
NFC Data Exchange Format (NDEF) message contains typed data, a URI, or a custom application payload. If the message contains information about the application, such as its name, MIME type, or device software version, this information could be leaked to an eavesdropper.

Recommendation

Write error messages with security in mind. In production environments, turn off detailed error information in favor of brief messages. Restrict the generation and storage of detailed output that can help administrators and programmers diagnose problems. Be careful, debugging traces can sometimes appear in non-obvious places (embedded in comments in the HTML for an error page, for example). Even brief error messages that do not reveal stack traces or database dumps can potentially aid an attacker. For example, an "Access Denied" message can reveal that a file or user exists on the system. Due to this, it's advised to always keep information instead of sending it to a resource directly outside the program.
Example 4: The code below broadcasts the stack trace of a caught exception within your app only, so that it cannot be leaked to other apps on the system. There is also the added bonus that this is more efficient than globally broadcasting through the system.
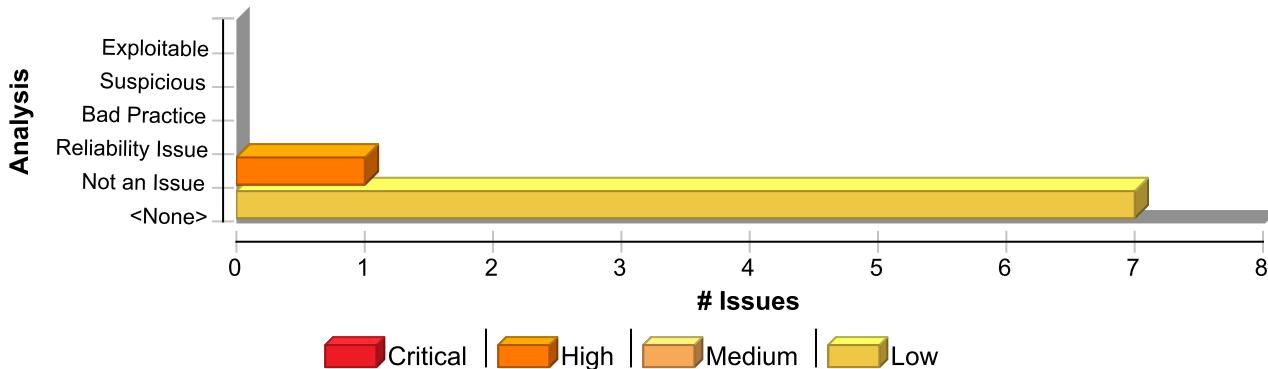
```
...
try {
  ...
} catch (Exception e) {
    String exception = Log.getStackTraceString(e);
    Intent i = new Intent();
    i.setAction("SEND_EXCEPTION");
    i.putExtra("exception", exception);
    LocalBroadcastManager.getInstance(view.getContext()).sendBroadcast(i);
}
...
```
If you are concerned about leaking system data via NFC on an Android device, you could do one of the following three things. Either do not include system data in the messages pushed to other devices in range, or encrypt the payload of the message, or establish secure communication channel at a higher layer.

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
System Information Leak: External	8	0	0	8
Total	**8**	**0**	**0**	**8**

System Information Leak: External	High

Package: /WEB-INF/includes	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/includes/footer.jsp, line 15 (System Information Leak: External)	High

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Audit Details

Analysis   Not an Issue

Audit Comments

VHAHAMWandIJ: Tue Oct 17 2017 09:28:20 GMT-0400 (EDT)
The statement on line 15 only displays the current version and build number of the application and does not display other system, debugging or error information.

Source Details

Source: org.springframework.core.env.PropertyResolver.getProperty()
From: gov.va.med.pharmacy.web.auth.LoginController.authenticateUser
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/LoginController.java
:72

```
69
70   if(environment!=null){
71
72   buildInfo = environment.getProperty("buildinformation");
73
74   session.removeAttribute(Constants.BUILI_NFO);
75
```

Sink Details

Sink: javax.servlet.jsp.JspWriter.print()
Enclosing Method: _jspService()

System Information Leak: External	High

Package: /WEB-INF/includes

PS_INB_ERX_UI/src/main/webapp/WEB-INF/includes/footer.jsp, line 15 (System Information Leak: External)	High

File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/includes/footer.jsp:15
Taint Flags: ARGS, ENVIRONMENT, PROPERTY

```
12 <div id="buildInfo" align="center">
13 <c:if test="${ buildInfo != null }">
14  <p>
15  <label style="font-weight: bold;">Build:</label> <b>${buildInfo}</b>
16  </p>
17  </c:if>
18 </div>
```

System Information Leak: External	Low

Package: gov.va.med.pharmacy.jaxrs.drug.service.impl

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/drug/service/impl/DrugSearchImpl.java, line 62 (System Information Leak: External)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: java.lang.Throwable.getMessage()
From: gov.va.med.pharmacy.jaxrs.drug.service.impl.DrugSearchImpl.search
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/drug/service/impl/DrugS
earchImpl.java:57

```
54  } catch (Exception e) {
55  searchResponse.setSuccess(false);
56
57  searchResponse.setErrorMessage("Error while searching drug: " +
e.getMessage());
58
59  LOG.error("Error in DrugSearchImpl:"+e.getMessage());
60  }
```

Sink Details

Sink: Return searchResponse
Enclosing Method: search()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/drug/service/impl/DrugSearchImpl.java:62
Taint Flags: EXCEPTIONINFO, SYSTEMINFO

```
59  LOG.error("Error in DrugSearchImpl:"+e.getMessage());
60  }
61
62  return searchResponse;
```

System Information Leak: External	Low

Package: gov.va.med.pharmacy.jaxrs.drug.service.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/drug/service/impl/ DrugSearchImpl.java, line 62 (System Information Leak: External)	Low

```
63   }
64
65 undefined
```

Package: gov.va.med.pharmacy.jaxrs.mvi.service.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/service/impl/ PatientSearchImpl.java, line 101 (System Information Leak: External)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: java.lang.Throwable.getMessage()
From: gov.va.med.pharmacy.jaxrs.mvi.service.impl.PatientSearchImpl.searchPatientByName
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/service/impl/PatientSearchImpl.java:98

```
95
96   searchResponse.setSuccess(false);
97
98   searchResponse.setErrorMessage("Error while searching patient: " +
e.getMessage());
99   }
100
101   return searchResponse;
```

Sink Details

Sink: Return searchResponse
Enclosing Method: searchPatientByName()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/mvi/service/impl/PatientSearchImpl.java:101
Taint Flags: EXCEPTIONINFO, SYSTEMINFO

```
98   searchResponse.setErrorMessage("Error while searching patient: " + e.getMessage());
99   }
100
101   return searchResponse;
102   }
103
104 }
```

System Information Leak: External	Low

Package: gov.va.med.pharmacy.jaxrs.outboundncpdpmessage.service.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/ outboundncpdpmessage/service/impl/ OutboundNCPDPMessageServiceImpl.java, line 207 (System Information Leak: External)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: java.lang.Throwable.getMessage()
From: gov.va.med.pharmacy.jaxrs.outboundncpdpmessage.service.impl.OutboundNCPDPMessageServiceImpl.sendOutboundMessage
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/OutboundNCPDPMessageServiceImpl.java:204

```
201
202    wsResponse.setSuccess(false);
203
204    wsResponse.setErrorMessage("Error while processing outbound message: " +
e.getMessage());
205    }
206
207    return wsResponse;
```

Sink Details

Sink: Return wsResponse
Enclosing Method: sendOutboundMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/outboundncpdpmessage/service/impl/OutboundNCPDPMessageServiceImpl.java:207
Taint Flags: EXCEPTIONINFO, SYSTEMINFO

```
204    wsResponse.setErrorMessage("Error while processing outbound message: " + e.getMessage());
205    }
206
207    return wsResponse;
208    }
209
210    /*
```

Package: gov.va.med.pharmacy.jaxrs.provider.service.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/provider/service/ impl/ProviderSearchImpl.java, line 62 (System Information Leak: External)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

System Information Leak: External	Low

Package: gov.va.med.pharmacy.jaxrs.provider.service.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/provider/service/impl/ProviderSearchImpl.java, line 62 (System Information Leak: External)	Low

Source Details

Source: java.lang.Throwable.getMessage()
From: gov.va.med.pharmacy.jaxrs.provider.service.impl.ProviderSearchImpl.search
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/provider/service/impl/ProviderSearchImpl.java:59

```
56
57   searchResponse.setSuccess(false);
58
59   searchResponse.setErrorMessage("Error while searching provider: " +
     e.getMessage());
60   }
61
62   return searchResponse;
```

Sink Details

Sink: Return searchResponse
Enclosing Method: search()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/provider/service/impl/ProviderSearchImpl.java:62
Taint Flags: EXCEPTIONINFO, SYSTEMINFO

```
59   searchResponse.setErrorMessage("Error while searching provider: " + e.getMessage());
60   }
61
62   return searchResponse;
63   }
64
65 undefined
```

Package: gov.va.med.pharmacy.jaxrs.tovista.service.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/tovista/service/impl/VistaInboundSendImpl.java, line 55 (System Information Leak: External)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: java.lang.Throwable.getMessage()
From: gov.va.med.pharmacy.jaxrs.tovista.service.impl.VistaInboundSendImpl.send
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/tovista/service/impl/VistaInboundSendImpl.java:52

```
49   } catch (IOException e) {
```

System Information Leak: External	Low

Package: gov.va.med.pharmacy.jaxrs.tovista.service.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/tovista/service/impl/ VistaInboundSendImpl.java, line 55 (System Information Leak: External)	Low

```
50   sendResponse.setSuccess(false);

51

52   sendResponse.setErrorMessage("Error while sending vista inbound message:
" + e.getMessage());

53   }

54

55   return sendResponse;
```

Sink Details

Sink: Return sendResponse
Enclosing Method: send()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/tovista/service/impl/ VistaInboundSendImpl.java:55
Taint Flags: EXCEPTIONINFO, SYSTEMINFO

```
52   sendResponse.setErrorMessage("Error while sending vista inbound message: " +
e.getMessage());

53   }

54

55   return sendResponse;

56   }

57

58 undefined
```

Package: gov.va.med.pharmacy.jaxrs.vistaoutboundmsg.service.impl	

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/vistaoutboundmsg/ service/impl/VistaOutboundMsgImpl.java, line 84 (System Information Leak: External)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: java.lang.Throwable.getMessage()
From: gov.va.med.pharmacy.jaxrs.vistaoutboundmsg.service.impl.VistaOutboundMsgImpl. persistMessage
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/vistaoutboundmsg/servic e/impl/VistaOutboundMsgImpl.java:79

```
76

77   wsResponse.setSuccess(false);

78

79   wsResponse.setErrorMessage("Error while saving vista outbound message: "
+ e.getMessage());
```

System Information Leak: External	Low

Package: gov.va.med.pharmacy.jaxrs.vistaoutboundmsg.service.impl

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/vistaoutboundmsg/ service/impl/VistaOutboundMsgImpl.java, line 84 (System Information Leak: External)	Low

```
80
81  wsResponse.setOutboundMsgId(0);
82  }
```

Sink Details

Sink: Return wsResponse
Enclosing Method: persistMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/vistaoutboundmsg/service/impl/ VistaOutboundMsgImpl.java:84
Taint Flags: EXCEPTIONINFO, SYSTEMINFO

```
81  wsResponse.setOutboundMsgId(0);
82  }
83
84  return wsResponse;
85  }
86
87  @POST
```

PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/vistaoutboundmsg/ service/impl/VistaOutboundMsgImpl.java, line 130 (System Information Leak: External)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: java.lang.Throwable.getMessage()
From: gov.va.med.pharmacy.jaxrs.vistaoutboundmsg.service.impl.VistaOutboundMsgImpl. persistXMLMessage
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/vistaoutboundmsg/servic e/impl/VistaOutboundMsgImpl.java:125

```
122
123  wsResponse.setSuccess(false);
124
125  wsResponse.setErrorMessage("Error while saving vista outbound message: "
+ e.getMessage());
126
127  wsResponse.setOutboundMsgId(0);
128  }
```

Sink Details

System Information Leak: External	Low
Package: gov.va.med.pharmacy.jaxrs.vistaoutboundmsg.service.impl	
PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/vistaoutboundmsg/ service/impl/VistaOutboundMsgImpl.java, line 130 (System Information Leak: External)	**Low**

Sink: Return wsResponse
Enclosing Method: persistXMLMessage()
File: PS_INB_ERX_WS/src/main/java/gov/va/med/pharmacy/jaxrs/vistaoutboundmsg/service/impl/
VistaOutboundMsgImpl.java:130
Taint Flags: EXCEPTIONINFO, SYSTEMINFO

```
127   wsResponse.setOutboundMsgId(0);
128   }
129
130   return wsResponse;
131   }
132
133 undefined
```

System Information Leak: HTML Comment in JSP (27 issues)

Abstract

Any information revealed in an HTML comment might help an adversary learn about the system and form a plan of attack.

Explanation

HTML comments provide an attacker with an easy source of information about a dynamically generated web page. **Example 1:**

```
<!-- TBD: this needs a security audit -->
<form method="POST" action="recalcOrbit">
...
```

Even comments that seem innocuous may be useful to someone trying to understand the way the system is built.
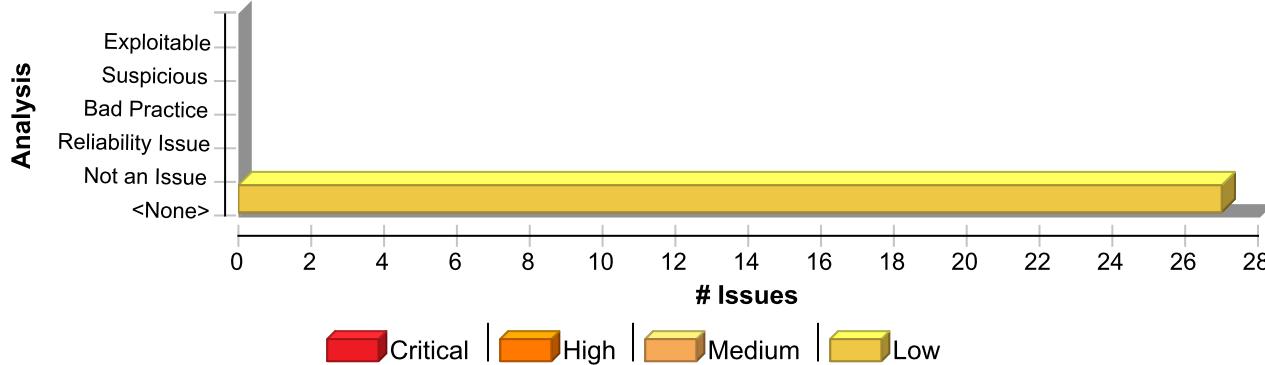
Recommendation

Replace HTML comments with JSP comments (which will not be transmitted to the user). **Example 2:** The previous example is rewritten to use JSP comments, which will not be displayed to the user.

```
<%-- TBD: this needs a security audit --%>
<form method="POST" action="recalcOrbit">
...
```
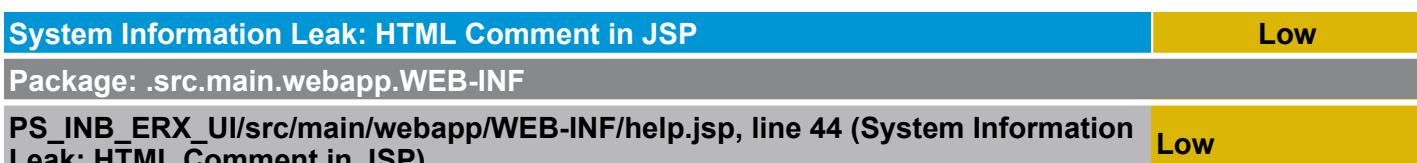
Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
System Information Leak: HTML Comment in JSP	27	0	0	27
Total	**27**	**0**	**0**	**27**

System Information Leak: HTML Comment in JSP	Low
Package: .src.main.webapp.WEB-INF	
PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 44 (System Information Leak: HTML Comment in JSP)	Low
Issue Details	

System Information Leak: HTML Comment in JSP	Low

Package: .src.main.webapp.WEB-INF

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 44 (System Information Leak: HTML Comment in JSP)	Low

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:44
Taint Flags:

```
41   color: black
42 }
43
44 <!-- /* Font Definitions */
45 @font-face {
46   font-family: Wingdings;
47   panose-1: 5 0 0 0 0 0 0 0 0 0;
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1051 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:1051
Taint Flags:

```
1048   </div>
1049
1050   <div role="main">
1051   <!-- role main -->
1052
1053   <span
1054   style='font-size: 11.0pt; line-height: 115%; font-family: "Arial", sans-serif'><br
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 7871 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:7871

System Information Leak: HTML Comment in JSP	Low

Package: .src.main.webapp.WEB-INF	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 7871 (System Information Leak: HTML Comment in JSP)	Low

Taint Flags:

```
7868   </div>
7869   <!-- end role main div-->
7870   </div>
7871   <!-- End of document role.-->
7872   </body>
7873
7874   </html>
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 1106 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp:1106
Taint Flags:

```
1103   </div>
1104
1105   </div>
1106   <!--9-->
1107   <div id="trackMedRequested9" style="display: none;">
1108   <div role="row">
1109   <div role="rowheader" class="trackH1">MEDICATION REQUESTED #9</div>
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1086 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:1086
Taint Flags:

```
1083   </span>
1084   </p>
1085   <div >
1086   <!-- ordered list -->
```

System Information Leak: HTML Comment in JSP	Low
Package: .src.main.webapp.WEB-INF	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1086 (System Information Leak: HTML Comment in JSP)	Low

1087	
1088	`<ol>`
1089	`<li ><p class=BodyTextNumbered1`

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1189 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:1189
Taint Flags:

1186	`</p>`
1187	
1188	`<div >`
1189	`<!-- ordered list -->`
1190	`<ol>`
1191	`<li ><p class=BodyTextNumbered1`
1192	`style='margin-top: 1.0pt; margin-right: 0in; margin-bottom: 1.0pt; margin-left: .3in; line-height: 115%'>`

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1251 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:1251
Taint Flags:

1248	`Processing Hub before being sent down to VistA:</span>`
1249	`</p>`
1250	`<div >`
1251	`<!-- ordered list -->`
1252	`<ul>`
1253	`<li ><p class=MsoBodyText`
1254	`style='margin-left: .3in; text-indent: -.5in'>`

System Information Leak: HTML Comment in JSP	Low

Package: .src.main.webapp.WEB-INF

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1341 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:1341
Taint Flags:

```
1338   </p>
1339
1340   <div >
1341   <!-- ordered list -->
1342
1343   <ul>
1344   <li ><p class=MsoBodyText
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1393 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:1393
Taint Flags:

```
1390   </p>
1391
1392   <div >
1393   <!-- ordered list -->
1394
1395   <ol>
1396   <li ><p class=BodyTextNumbered1
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1780 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

System Information Leak: HTML Comment in JSP   **Low**

Package: .src.main.webapp.WEB-INF

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1780 (System Information Leak: HTML Comment in JSP)   **Low**

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:1780
Taint Flags:

1777	`<a name="_Toc517947818">Screen Navigation and Description</a>`
1778	`</h2>`
1779	`<div >`
1780	`<!-- ordered list -->`
1781	`<p class=MsoBodyText>`
1782	`<span style='font-family: "Arial", sans-serif'>The`
1783	`following figure outlines the key areas of the screen layout.`

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1854 (System Information Leak: HTML Comment in JSP)   **Low**

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:1854
Taint Flags:

1851	`</p>`
1852	
1853	`<div >`
1854	`<!-- ordered list -->`
1855	
1856	`<ul>`
1857	`<li ><p class=MsoBodyText`

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1977 (System Information Leak: HTML Comment in JSP)   **Low**

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:1977
Taint Flags:

1974	
1975	`<p class=MsoBodyText> </p>`
1976	`<div >`

System Information Leak: HTML Comment in JSP	Low
Package: .src.main.webapp.WEB-INF	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1977 (System Information Leak: HTML Comment in JSP)	Low

```
1977   <!-- ordered list -->
1978
1979   <ol>
1980   <li ><p class=BodyTextNumbered1
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 978 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp:978
Taint Flags:

```
975   </div>
976   </div>
977   </div>
978   <!--7-->
979   <div id="trackMedRequested7" style="display: none;">
980   <div role="row">
981   <div role="rowheader" class="trackH1">MEDICATION REQUESTED #7</div>
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 656 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp:656
Taint Flags:

```
653   <div role="rowheader" class="trackLbl">Comments: </div> <div role="cell"
id="rxCommentsRequested" style="width: 1000px;" class="trackDataRight"> </div>
654   </div>
655   </div>
656   <!--2-->
657   <div id="trackMedRequested2" style="display: none;">
658   <div role="row">
659   <div role="rowheader" class="trackH1">MEDICATION REQUESTED #2</div>
```

System Information Leak: HTML Comment in JSP	Low

Package: .src.main.webapp.WEB-INF

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 780 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp:780
Taint Flags:

```
777  <div role="rowheader" class="trackLbl">Comments: </div> <div role="cell"
     id="rxCommentsRequested3" style="width: 1000px;" class="trackDataRight"> </div>
778  </div>
779  </div>
780  <!--4-->
781  <div id="trackMedRequested4" style="display: none;">
782  <div role="row">
783  <div role="rowheader" class="trackH1">MEDICATION REQUESTED #4</div>
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 1042 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp:1042
Taint Flags:

```
1039  </div>
1040
1041  </div>
1042  <!--8-->
1043  <div id="trackMedRequested8" style="display: none;">
1044  <div role="row">
1045  <div role="rowheader" class="trackH1">MEDICATION REQUESTED #8</div>
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 7869 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

System Information Leak: HTML Comment in JSP	Low

Package: .src.main.webapp.WEB-INF	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 7869 (System Information Leak: HTML Comment in JSP)	Low

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:7869
Taint Flags:

```
7866
7867    </div>
7868    </div>
7869    <!-- end role main div-->
7870    </div>
7871    <!-- End of document role.-->
7872    </body>
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 915 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp:915
Taint Flags:

```
912    </div>
913    </div>
914    </div>
915    <!--6-->
916    <div id="trackMedRequested6" style="display: none;">
917    <div role="row">
918    <div role="rowheader" class="trackH1">MEDICATION REQUESTED #6</div>
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 844 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp:844
Taint Flags:

```
841    </div>
842
843    </div>
```

System Information Leak: HTML Comment in JSP	Low

Package: .src.main.webapp.WEB-INF	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 844 (System Information Leak: HTML Comment in JSP)	Low

```
844   <!--5-->
845   <div id="trackMedRequested5" style="display: none;">
846   <div role="row">
847   <div role="rowheader" class="trackH1">MEDICATION REQUESTED #5</div>
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1176 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:1176
Taint Flags:

```
1173   </ol>
1174
1175   </div>
1176   <!-- ordered list End -->
1177
1178   <h2>
1179   <a name="_Toc517947811">User Interfaces</a>
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1210 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:1210
Taint Flags:

```
1207
1208
1209   </div>
1210   <!-- ordered list End -->
1211   <p class=MsoBodyText style='margin-top: 5.0pt'>
1212   <span style='font-family: "Arial", sans-serif'> </span>
1213   </p>
```

System Information Leak: HTML Comment in JSP	Low

Package: .src.main.webapp.WEB-INF

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1313 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:1313
Taint Flags:

```
1310
1311
1312   </div>
1313   <!-- ordered list End -->
1314   <h3>
1315   <a name="_Toc517947814"><span style='font-size: 12.0pt'>Provider
1316   Autochecks</span></a>
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1377 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:1377
Taint Flags:

```
1374   </p></li>
1375   </ul>
1376   </div>
1377   <!-- ordered list End -->
1378
1379   <h2>
1380   <a name="_Toc517947816">Logging In/Out</a>
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1483 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

System Information Leak: HTML Comment in JSP	Low

Package: .src.main.webapp.WEB-INF

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1483 (System Information Leak: HTML Comment in JSP)	Low

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:1483
Taint Flags:

1480	and Capabilities
1481	</h2>
1482	</div>
1483	<!-- ordered list End -->
1484	
1485	<p class=MsoBodyText>
1486	<span style='font-family: "Arial", sans-serif'>The following

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1836 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:1836
Taint Flags:

1833	
1834	
1835	</div>
1836	<!-- ordered list End -->
1837	
1838	<p class=MsoCaption>Figure 1: Screen Navigation</p>
1839	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1920 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp:1920
Taint Flags:

1917	
1918	
1919	</div>

System Information Leak: HTML Comment in JSP	Low

Package: .src.main.webapp.WEB-INF	

PS_INB_ERX_UI/src/main/webapp/WEB-INF/help.jsp, line 1920 (System Information Leak: HTML Comment in JSP)	Low

```
1920   <!-- ordered list End -->
1921
1922   <p class=MsoBodyText>
1923   <span style='font-family: "Arial", sans-serif'> </span>
```

PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp, line 718 (System Information Leak: HTML Comment in JSP)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Structural)

Sink Details

Sink: Comment
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/trackeRx.jsp:718
Taint Flags:

```
715   </div>
716   </div>
717   </div>
718   <!--3-->
719   <div id="trackMedRequested3" style="display: none;">
720   <div role="row">
721   <div role="rowheader" class="trackH1">MEDICATION REQUESTED #3</div>
```

Trust Boundary Violation (29 issues)

Abstract

Commingling trusted and untrusted data in the same data structure encourages programmers to mistakenly trust unvalidated data.

Explanation

A trust boundary can be thought of as line drawn through a program. On one side of the line, data is untrusted. On the other side of the line, data is assumed to be trustworthy. The purpose of validation logic is to allow data to safely cross the trust boundary--to move from untrusted to trusted. A trust boundary violation occurs when a program blurs the line between what is trusted and what is untrusted. The most common way to make this mistake is to allow trusted and untrusted data to commingle in the same data structure. **Example:** The following Java code accepts an HTTP request and stores the `usrname` parameter in the HTTP session object before checking to ensure that the user has been authenticated.
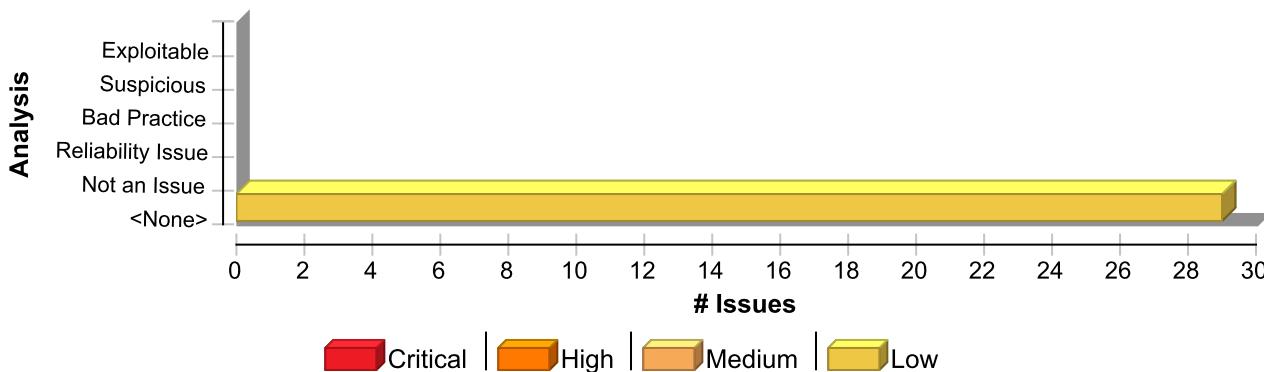
```
usrname = request.getParameter("usrname");
if (session.getAttribute(ATTR_USR) != null) {
    session.setAttribute(ATTR_USR, usrname);
}
```

Without well-established and maintained trust boundaries, programmers will inevitably lose track of which pieces of data have been validated and which have not. This confusion will eventually allow some data to be used without first being validated.

Recommendation

Define clear trust boundaries in the application. Do not use the same data structure to hold trusted data in some contexts and untrusted data in other contexts. Minimize the number of ways that data can move across a trust boundary. Trust boundary violations sometimes occur when input needs to be built up over a series of user interactions before being processed. It may not be possible to do complete input validation until all of the data has arrived. In these situations, it is still important to maintain a trust boundary. The untrusted data should be built up in a single untrusted data structure, validated, and then moved into a trusted location.

Issue Summary

Engine Breakdown

	SCA	WebInspect	SecurityScope	Total
Trust Boundary Violation	29	0	0	29
Total	**29**	**0**	**0**	**29**

Trust Boundary Violation	Low
Package: /WEB-INF/includes	
PS_INB_ERX_UI/src/main/webapp/WEB-INF/includes/footer.jsp, line 3 (Trust Boundary Violation)	**Low**

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.springframework.core.env.PropertyResolver.getProperty()
From: gov.va.med.pharmacy.web.auth.LoginController.authenticateUser
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/LoginController.java:72

```
69
70   if(environment!=null){
71
72   buildInfo = environment.getProperty("buildinformation");
73
74   session.removeAttribute(Constants.BUILI_NFO);
75
```

Sink Details

Sink: http://java.sun.com/jsp/jstl/core/set/_jspService
Enclosing Method: _jspService()
File: PS_INB_ERX_UI/src/main/webapp/WEB-INF/includes/footer.jsp:3
Taint Flags: ARGS, ENVIRONMENT, PROPERTY

```
1 <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
2 <%@ taglib uri="http://www.springframework.org/tags" prefix="spring"%>
3 <c:set var="buildInfo" value="${sessionScope.buildInformation}" />
4 <div id="footer">
5 <hr/>
6 <div id="footerLinks" accesskey="y">
7
```

Package: gov.va.med.pharmacy.web.administration	
PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java, line 109 (Trust Boundary Violation)	**Low**

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate.query()
From: gov.va.med.pharmacy.persistence.track.impl.VisnSelectDaoImpl.getSelectedVisns
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/Vis

Trust Boundary Violation	Low
Package: gov.va.med.pharmacy.web.administration	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 109 (Trust Boundary Violation)	Low

nSelectDaoImpl.java:94

```
91  List<VisnSelectModel> visnList = new ArrayList<VisnSelectModel>();

92

93  try {

94  visnList = jdbcTemplate.query(sql,params, new VisnListRowMapper());

95  } catch (DataAccessException e) {

96

97  LOG.info("Exception retrieving selected visn from pharmacy." +
e.getMessage());
```

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: getMainPage()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/
PharmacyManagementController.java:109
Taint Flags: DATABASE, HTML_ENCODE, POORVALIDATION, PRIMARY_KEY,
VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, XSS

```
106

107  List<VisnSelectModel> visnList = getVisnSelect(currentUser.getVaStationIds());

108

109  view.addObject("visnList", visnList);

110

111  // when redirected after add pharmacy.

112  if(null!=session.getAttribute("messageData")){
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 163 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.hibernate.Criteria.list()
From: gov.va.med.pharmacy.persistence.dao.impl.PharmacyDaoImpl.findSelectedPharmaci
es
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/Pharm
acyDaoImpl.java:331

```
328

329  criteria.setResultTransformer(Criteria.ALIAS_TO_ENTITY_MAP);
```

Trust Boundary Violation	Low

Package: gov.va.med.pharmacy.web.administration	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 163 (Trust Boundary Violation)	Low

```
330
331  List<PharmacyEntity> pharmacies = criteria.list();
332
333  return pharmacies;
334  }
```

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: getPharmacyList()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/
PharmacyManagementController.java:163
Taint Flags: DATABASE, XSS

```
160  e.printStackTrace();
161  }
162
163  mav.addObject("items", pharmacyList);
164
165  return mav;
166  }
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 84 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.hibernate.Criteria.list()
From: gov.va.med.pharmacy.persistence.dao.impl.UserDaoImpl.findUsersByStationIds
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/UserD
aoImpl.java:107

```
104
105  criteriaEq.add(Restrictions.eq("vaStationIds", stationIds));
106
107  List<VaUser> usersEq = (List<VaUser>) criteriaEq.list();
108
109  users.addAll(usersEq);
110
```

Sink Details

Trust Boundary Violation	Low

Package: gov.va.med.pharmacy.web.administration	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 84 (Trust Boundary Violation)	Low

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: getMainPage()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/UserManagementController.java: 84
Taint Flags: DATABASE, NUMBER, XSS

```
81
82   mav.addObject("userMgmtStationIds", stationIdsList);
83
84   mav.addObject("userMgmt", userRoles);
85
86
87
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 228 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.hibernate.Criteria.list()
From: gov.va.med.pharmacy.persistence.dao.impl.UserDaoImpl.findUsersByStationIds
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/UserDaoImpl.java:99

```
96
97   criteria.add(buildStringInCriterion("vaStationIds", stationIdsList));
98
99   users = (List<VaUser>) criteria.list();
100  }
101
102
```

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: saveUsers()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/UserManagementController.java: 228
Taint Flags: DATABASE, NUMBER, XSS

```
225
226  List<UserManagementModel> userRoles = getUsersAndRoles();
227
228  mav.addObject("userMgmt", userRoles);
```

Trust Boundary Violation	Low

Package: gov.va.med.pharmacy.web.administration	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 228 (Trust Boundary Violation)	Low

```
229
230  // populate station ids.
231  List<StationIdSelectModel> stationIdsList = getAllStationIds();
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 242 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.hibernate.Criteria.list()
From: gov.va.med.pharmacy.persistence.dao.impl.UserDaoImpl.findUsersByStationIds
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/UserD
aoImpl.java:99

```
96
97   criteria.add(buildStringInCriterion("vaStationIds", stationIdsList));
98
99   users = (List<VaUser>) criteria.list();
100  }
101
102
```

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: saveUsers()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/UserManagementController.java:
242
Taint Flags: DATABASE, NUMBER, XSS

```
239
240  List<UserManagementModel> userRoles = getUsersAndRoles();
241
242  mav.addObject("userMgmt", userRoles);
243
244
245  // populate station ids.
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 674 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation

Trust Boundary Violation	Low

Package: gov.va.med.pharmacy.web.administration	
PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 674 (Trust Boundary Violation)	**Low**

Scan Engine: SCA (Data Flow)

Source Details

Source: org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate.query()
From: gov.va.med.pharmacy.persistence.track.impl.VisnSelectDaoImpl.getSelectedVisns
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/Vis
nSelectDaoImpl.java:94

```
91   List<VisnSelectModel> visnList = new ArrayList<VisnSelectModel>();

92

93   try {

94   visnList = jdbcTemplate.query(sql,params, new VisnListRowMapper());

95   } catch (DataAccessException e) {

96

97   LOG.info("Exception retrieving selected visn from pharmacy." +
e.getMessage());
```

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: addNewPharmacy()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/
PharmacyManagementController.java:674
Taint Flags: DATABASE, HTML_ENCODE, POORVALIDATION, PRIMARY_KEY,
VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, XSS

```
671

672   List<VisnSelectModel> visnList = getVisnSelect(userStationIds);

673

674   view.addObject("visnList", visnList);

675   }

676   }

677
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 84 (Trust Boundary Violation)	**Low**

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.hibernate.Criteria.list()

Trust Boundary Violation	Low
Package: gov.va.med.pharmacy.web.administration	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 84 (Trust Boundary Violation)	Low

From: gov.va.med.pharmacy.persistence.dao.impl.UserDaoImpl.findUsersByStationIds
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/UserDaoImpl.java:99

```
96
97   criteria.add(buildStringInCriterion("vaStationIds", stationIdsList));
98
99   users = (List<VaUser>) criteria.list();
100  }
101
102
```

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: getMainPage()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/UserManagementController.java: 84
Taint Flags: DATABASE, NUMBER, XSS

```
81
82   mav.addObject("userMgmtStationIds", stationIdsList);
83
84   mav.addObject("userMgmt", userRoles);
85
86
87
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 103 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.hibernate.Criteria.uniqueResult()
From: gov.va.med.pharmacy.persistence.dao.impl.UserDaoImpl.findByVAUserID
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/UserDaoImpl.java:34

```
31
32   crit.add(Restrictions.eq("vaUserid", networkID));
33
34   VaUser users = (VaUser)crit.uniqueResult();
35
```

Trust Boundary Violation	Low

Package: gov.va.med.pharmacy.web.administration	
PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 103 (Trust Boundary Violation)	Low

```
36   return users;
37   }
```

Sink Details

Sink: javax.servlet.http.HttpSession.setAttribute()
Enclosing Method: getMainPage()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/
PharmacyManagementController.java:103
Taint Flags: DATABASE, XSS

```
100
101   session.removeAttribute("USER_STATIONS_IDS");
102
103   session.setAttribute("USER_STATIONS_IDS", currentUser.getVaStationIds());
104
105   ModelAndView view = new ModelAndView("managepharmacy.homepage");
106
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 228 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.hibernate.Criteria.list()
From: gov.va.med.pharmacy.persistence.dao.impl.UserDaoImpl.findAll
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/UserD
aoImpl.java:66

```
63
64   criteria.setResultTransformer(Criteria.DISTINCT_ROOT_ENTITY);// for
unique results
65
66   List<VaUser> users = (List<VaUser>) criteria.list();
67
68   return users;
69   }
```

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: saveUsers()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/UserManagementController.java:

Trust Boundary Violation	Low

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 228 (Trust Boundary Violation)	Low

228
Taint Flags: DATABASE, NUMBER, XSS

225	
226	`List<UserManagementModel> userRoles = getUsersAndRoles();`
227	
228	`mav.addObject("userMgmt", userRoles);`
229	
230	`// populate station ids.`
231	`List<StationIdSelectModel> stationIdsList = getAllStationIds();`

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 242 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.hibernate.Criteria.list()
From: gov.va.med.pharmacy.persistence.dao.impl.UserDaoImpl.findAll
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/UserDaoImpl.java:66

63	
64	`criteria.setResultTransformer(Criteria.DISTINCT_ROOT_ENTITY);// for unique results`
65	
66	`List<VaUser> users = (List<VaUser>) criteria.list();`
67	
68	`return users;`
69	`}`

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: saveUsers()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/UserManagementController.java: 242
Taint Flags: DATABASE, NUMBER, XSS

239	
240	`List<UserManagementModel> userRoles = getUsersAndRoles();`
241	
242	`mav.addObject("userMgmt", userRoles);`
243	
244	

Trust Boundary Violation	Low

Package: gov.va.med.pharmacy.web.administration	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 242 (Trust Boundary Violation)	Low

```
245   // populate station ids.
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 109 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.springframework.jdbc.core.JdbcTemplate.query()
From: gov.va.med.pharmacy.persistence.track.impl.VisnSelectDaoImpl.getVisns
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/VisnSelectDaoImpl.java:66

```
63
64   try {
65
66   visnList = jdbcTemplate.query(sql,new VisnListRowMapper());
67   } catch (DataAccessException e) {
68
69
```

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: getMainPage()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java:109
Taint Flags: DATABASE, HTML_ENCODE, POORVALIDATION, PRIMARY_KEY, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, XSS

```
106
107   List<VisnSelectModel> visnList = getVisnSelect(currentUser.getVaStationIds());
108
109   view.addObject("visnList", visnList);
110
111   // when redirected after add pharmacy.
112   if(null!=session.getAttribute("messageData")){
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 82 (Trust Boundary Violation)	Low

Issue Details

Trust Boundary Violation	Low

Package: gov.va.med.pharmacy.web.administration	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 82 (Trust Boundary Violation)	Low

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.hibernate.Criteria.list()
From: gov.va.med.pharmacy.persistence.dao.impl.PharmacyDaoImpl.getAllStations
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/PharmacyDaoImpl.java:141

138	
139	`criteria.setResultTransformer(Transformers.aliasToBean(PharmacyEntity.class));`
140	
141	`List<PharmacyEntity> pharmacies = criteria.list();`
142	
143	`return pharmacies;`
144	`}`

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: getMainPage()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/UserManagementController.java:82
Taint Flags: DATABASE, PRIMARY_KEY, XSS

79	
80	`List<StationIdSelectModel> stationIdsList = getAllStationIds();`
81	
82	`mav.addObject("userMgmtStationIds", stationIdsList);`
83	
84	`mav.addObject("userMgmt", userRoles);`
85	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 674 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.springframework.jdbc.core.JdbcTemplate.query()
From: gov.va.med.pharmacy.persistence.track.impl.VisnSelectDaoImpl.getVisns
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/VisnSelectDaoImpl.java:66

Trust Boundary Violation	Low

Package: gov.va.med.pharmacy.web.administration	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 674 (Trust Boundary Violation)	**Low**

63	
64	`try {`
65	
66	`visnList = jdbcTemplate.query(sql,new VisnListRowMapper());`
67	`} catch (DataAccessException e) {`
68	
69	

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: addNewPharmacy()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java:674
Taint Flags: DATABASE, HTML_ENCODE, POORVALIDATION, PRIMARY_KEY, VALIDATED_CROSS_SITE_SCRIPTING_DOM, VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION, VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT, VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, XSS

671	
672	`List<VisnSelectModel> visnList = getVisnSelect(userStationIds);`
673	
674	`view.addObject("visnList", visnList);`
675	`}`
676	`}`
677	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 84 (Trust Boundary Violation)	**Low**

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.hibernate.Criteria.list()
From: gov.va.med.pharmacy.persistence.dao.impl.UserDaoImpl.findAll
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/UserD aoImpl.java:66

63	
64	`criteria.setResultTransformer(Criteria.DISTINCT_ROOT_ENTITY);// for unique results`
65	
66	`List<VaUser> users = (List<VaUser>) criteria.list();`

Trust Boundary Violation	Low

Package: gov.va.med.pharmacy.web.administration	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 84 (Trust Boundary Violation)	**Low**

```
67
68   return users;
69   }
```

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: getMainPage()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/UserManagementController.java:
84
Taint Flags: DATABASE, NUMBER, XSS

```
81
82   mav.addObject("userMgmtStationIds", stationIdsList);
83
84   mav.addObject("userMgmt", userRoles);
85
86
87
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 228 (Trust Boundary Violation)	**Low**

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.hibernate.Criteria.list()
From: gov.va.med.pharmacy.persistence.dao.impl.UserDaoImpl.findUsersByStationIds
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/UserD
aoImpl.java:107

```
104
105   criteriaEq.add(Restrictions.eq("vaStationIds", stationIds));
106
107   List<VaUser> usersEq = (List<VaUser>) criteriaEq.list();
108
109   users.addAll(usersEq);
110
```

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: saveUsers()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/UserManagementController.java:

Trust Boundary Violation	Low

Package: gov.va.med.pharmacy.web.administration

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 228 (Trust Boundary Violation)	Low

228
Taint Flags: DATABASE, NUMBER, XSS

```
225
226   List<UserManagementModel> userRoles = getUsersAndRoles();
227
228   mav.addObject("userMgmt", userRoles);
229
230   // populate station ids.
231   List<StationIdSelectModel> stationIdsList = getAllStationIds();
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 242 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.hibernate.Criteria.list()
From: gov.va.med.pharmacy.persistence.dao.impl.UserDaoImpl.findUsersByStationIds
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/UserDaoImpl.java:107

```
104
105   criteriaEq.add(Restrictions.eq("vaStationIds", stationIds));
106
107   List<VaUser> usersEq = (List<VaUser>) criteriaEq.list();
108
109   users.addAll(usersEq);
110
```

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: saveUsers()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/UserManagementController.java: 242
Taint Flags: DATABASE, NUMBER, XSS

```
239
240   List<UserManagementModel> userRoles = getUsersAndRoles();
241
242   mav.addObject("userMgmt", userRoles);
243
244
245   // populate station ids.
```

Trust Boundary Violation	Low

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 242 (Trust Boundary Violation)	Low

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 233 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.hibernate.Criteria.list()
From: gov.va.med.pharmacy.persistence.dao.impl.PharmacyDaoImpl.getAllStations
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/PharmacyDaoImpl.java:141

```
138
139
criteria.setResultTransformer(Transformers.aliasToBean(PharmacyEntity.class));
140
141   List<PharmacyEntity> pharmacies = criteria.list();
142
143   return pharmacies;
144   }
```

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: saveUsers()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/UserManagementController.java: 233
Taint Flags: DATABASE, PRIMARY_KEY, XSS

```
230   // populate station ids.
231   List<StationIdSelectModel> stationIdsList = getAllStationIds();
232
233   mav.addObject("userMgmtStationIds", stationIdsList);
234
235   return mav;
236   }
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 248 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Trust Boundary Violation	Low

Package: gov.va.med.pharmacy.web.administration	
PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ UserManagementController.java, line 248 (Trust Boundary Violation)	**Low**

Source Details

Source: org.hibernate.Criteria.list()
From: gov.va.med.pharmacy.persistence.dao.impl.PharmacyDaoImpl.getAllStations
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/Pharm acyDaoImpl.java:141

138	
139	criteria.setResultTransformer(Transformers.aliasToBean(PharmacyEntity.class));
140	
141	List<PharmacyEntity> pharmacies = criteria.list();
142	
143	return pharmacies;
144	}

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: saveUsers()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/UserManagementController.java: 248
Taint Flags: DATABASE, PRIMARY_KEY, XSS

245	// populate station ids.
246	List<StationIdSelectModel> stationIdsList = getAllStationIds();
247	
248	mav.addObject("userMgmtStationIds", stationIdsList);
249	
250	if (result.hasErrors()) {
251	

Package: gov.va.med.pharmacy.web.auth	
PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/ LoginController.java, line 103 (Trust Boundary Violation)	**Low**

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: javax.servlet.http.HttpServletRequestWrapper.getHeader()
From: gov.va.med.pharmacy.web.filter.XSSRequestWrapper.getHeader
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/filter/XSSRequestWrapper. java:507

504	@Override

Trust Boundary Violation	Low

Package: gov.va.med.pharmacy.web.auth	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/ LoginController.java, line 103 (Trust Boundary Violation)	Low

```
505    public String getHeader(String name) {
506
507    String value = super.getHeader(name);
508
509    return stripXSS(value);
510    }
```

Sink Details

Sink: javax.servlet.http.HttpSession.setAttribute()
Enclosing Method: authenticateUser()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/LoginController.java:103
Taint Flags: VALIDATED_PORTABILITY_FLAW_FILE_SEPARATOR, WEB, XSS

```
100    {
101    session.removeAttribute(Constants.SSOI_LANDING_URL);
102
103    session.setAttribute(Constants.SSOI_LANDING_URL, logoutURL);
104    }
105
106    }
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/ LoginController.java, line 76 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.springframework.core.env.PropertyResolver.getProperty()
From: gov.va.med.pharmacy.web.auth.LoginController.authenticateUser
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/LoginController.java :72

```
69
70    if(environment!=null){
71
72    buildInfo = environment.getProperty("buildinformation");
73
74    session.removeAttribute(Constants.BUILI_NFO);
75
```

Sink Details

Trust Boundary Violation	Low

Package: gov.va.med.pharmacy.web.auth	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/ LoginController.java, line 76 (Trust Boundary Violation)	Low

Sink: javax.servlet.http.HttpSession.setAttribute()
Enclosing Method: authenticateUser()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/LoginController.java:76
Taint Flags: ARGS, ENVIRONMENT, PROPERTY

```
73
74   session.removeAttribute(Constants.BUILI_NFO);
75
76   session.setAttribute(Constants.BUILI_NFO, buildInfo);
77   }
78   }
79
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/ LoginController.java, line 103 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: javax.servlet.http.HttpServletRequest.getHeader()
From: gov.va.med.pharmacy.web.auth.LoginController.authenticateUser
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/LoginController.java
:97

```
94   // logout should take to the IAM Landing.
95   if(request.getHeader(Constants.SSOI_LANDING_URL)!=null)
96   {
97   String logoutURL = request.getHeader(Constants.SSOI_LANDING_URL);
98
99
if(ESAPIValidator.isValidInput(logoutURL,ESAPIValidationType.IAM_LOGOUT_URL) )
100   {
```

Sink Details

Sink: javax.servlet.http.HttpSession.setAttribute()
Enclosing Method: authenticateUser()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/LoginController.java:103
Taint Flags: WEB, XSS

```
100   {
101   session.removeAttribute(Constants.SSOI_LANDING_URL);
102
103   session.setAttribute(Constants.SSOI_LANDING_URL, logoutURL);
104   }
```

Trust Boundary Violation	Low

Package: gov.va.med.pharmacy.web.auth	
PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/auth/ LoginController.java, line 103 (Trust Boundary Violation)	**Low**

```
105
106  }
```

Package: gov.va.med.pharmacy.web.track	
PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/ TrackRxController.java, line 116 (Trust Boundary Violation)	**Low**

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.springframework.jdbc.core.JdbcTemplate.query()
From: gov.va.med.pharmacy.persistence.track.impl.NcpdpMessagesDaoImpl.searchMessages
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/NcpdpMessagesDaoImpl.java:1378

```
1375  try {
1376  //LOG.info("Retrieving NCPDP message details.");
1377  //System.out.println("Retrieving NCPDP message details.");
1378  ncpdpMsgList = jdbcTemplate.query(sql,new
NcpdpMsgListRowMapper(),messageId, relatesToId, vaStationId, patientLastName,
patientFirstName, prescriberLastName, prescriberFirstName, prescriberDEA,
prescriberNpi, prescribedDrug, inboundNcpdpMsgId);
1379  } catch (DataAccessException e) {
1380  //ncpdpMsg.setDataError(e.getMessage());
1381  //System.out.println("data error is:" + e.getMessage());
```

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: getMessages()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/TrackRxController.java:116
Taint Flags: DATABASE, XSS

```
113  // Refactored code into a method to be shared between the UI and the CSV as both use same
parameters to avoid code duplication.
114  List<NcpdpMessageListModel> eRxMessageList = trackAuditSearch(request,json);
115
116  mav.addObject("items", eRxMessageList);
117
118  return mav;
119  }
```

Trust Boundary Violation	Low
Package: gov.va.med.pharmacy.web.track	
PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/ TrackRxController.java, line 75 (Trust Boundary Violation)	**Low**

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.springframework.jdbc.core.namedparam.NamedParameterJdbcTemplate.query()
From: gov.va.med.pharmacy.persistence.track.impl.VisnSelectDaoImpl.getSelectedVisns
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/VisnSelectDaoImpl.java:94

```
91  List<VisnSelectModel> visnList = new ArrayList<VisnSelectModel>();

92

93  try {

94  visnList = jdbcTemplate.query(sql,params, new VisnListRowMapper());

95  } catch (DataAccessException e) {

96

97  LOG.info("Exception retrieving selected visn from pharmacy." +
e.getMessage());
```

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: getMainPage()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/TrackRxController.java:75
Taint Flags: DATABASE, HTML_ENCODE, POORVALIDATION, PRIMARY_KEY,
VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, XSS

```
72

73  List<VisnSelectModel> visnList = getVisnSelect(currentUser.getVaStationIds());

74

75  view.addObject("trackVisnList", visnList);

76

77  return view;

78  }
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/ TrackRxController.java, line 69 (Trust Boundary Violation)	**Low**

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Trust Boundary Violation	Low

Package: gov.va.med.pharmacy.web.track	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/ TrackRxController.java, line 69 (Trust Boundary Violation)	Low

Source: org.hibernate.Criteria.uniqueResult()
From: gov.va.med.pharmacy.persistence.dao.impl.UserDaoImpl.findByVAUserID
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/dao/impl/UserDaoImpl.java:34

```
31
32   crit.add(Restrictions.eq("vaUserid", networkID));
33
34   VaUser users = (VaUser)crit.uniqueResult();
35
36   return users;
37   }
```

Sink Details

Sink: javax.servlet.http.HttpSession.setAttribute()
Enclosing Method: getMainPage()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/TrackRxController.java:69
Taint Flags: DATABASE, XSS

```
66
67   session.removeAttribute("USER_STATIONS_IDS");
68
69   session.setAttribute("USER_STATIONS_IDS", currentUser.getVaStationIds());
70
71   ModelAndView view = new ModelAndView("trackeRx.homepage");
72
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/ TrackRxController.java, line 75 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.springframework.jdbc.core.JdbcTemplate.query()
From: gov.va.med.pharmacy.persistence.track.impl.VisnSelectDaoImpl.getVisns
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/VisnSelectDaoImpl.java:66

```
63
64   try {
65
66   visnList = jdbcTemplate.query(sql,new VisnListRowMapper());
67   } catch (DataAccessException e) {
```

Trust Boundary Violation	Low

Package: gov.va.med.pharmacy.web.track	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/ TrackRxController.java, line 75 (Trust Boundary Violation)	**Low**

68	
69	

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: getMainPage()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/TrackRxController.java:75
Taint Flags: DATABASE, HTML_ENCODE, POORVALIDATION, PRIMARY_KEY,
VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, XSS

72	
73	`List<VisnSelectModel> visnList = getVisnSelect(currentUser.getVaStationIds());`
74	
75	`view.addObject("trackVisnList", visnList);`
76	
77	`return view;`
78	`}`

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/ TrackRxController.java, line 381 (Trust Boundary Violation)	**Low**

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: org.springframework.jdbc.core.JdbcTemplate.query()
From: gov.va.med.pharmacy.persistence.track.impl.NcpdpMessagesDaoImpl.searchRelated
Messages
File: PS_INB_ERX_Model/src/main/java/gov/va/med/pharmacy/persistence/track/impl/Ncp
dpMessagesDaoImpl.java:1565

1562	
1563	`try {`
1564	
1565	`ncpdpMsgList = jdbcTemplate.query(sqlBuffer.toString(),new NcpdpMsgListRowMapper(),messageId,messageId);`
1566	
1567	`} catch (DataAccessException e) {`
1568	

Sink Details

Trust Boundary Violation	Low

Package: gov.va.med.pharmacy.web.track	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/ TrackRxController.java, line 381 (Trust Boundary Violation)	Low

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: getRelatedMessages()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/track/TrackRxController.java:381
Taint Flags: DATABASE, XSS

```
378
379   eRxMessageList = trackMessageService.searchRelatedMessages(inboundNcpdpMsgId);
380
381   mav.addObject("items", eRxMessageList);
382
383   return mav;
384   }
```

URL: /managePharm/addNewPharmacy	

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 691 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: addNewPharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.addNewPharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:476
URL: /managePharm/addNewPharmacy

```
473   }
474
475   @RequestMapping(value = "/addNewPharmacy", method = RequestMethod.POST)
476   public ModelAndView addNewPharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyAddForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {
477
478   LOG.info("Trying to persist pharmacy information.");
479
```

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: addNewPharmacy()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/
PharmacyManagementController.java:691
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM,

Trust Boundary Violation	Low

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 691 (Trust Boundary Violation)	Low

VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,
VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

```
688   session.setAttribute("messageData", responseMessage);
689   }
690
691   view.addObject("pharmacyInfo",pharmacyInfo );
692
693   Map<String, String> statesMap = getStatesHashMap();
694
```

PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 342 (Trust Boundary Violation)	Low

Issue Details

Kingdom: Encapsulation
Scan Engine: SCA (Data Flow)

Source Details

Source: updatePharmacy(1)
From: gov.va.med.pharmacy.web.administration.PharmacyManagementController.updatePharmacy
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/PharmacyManagementController.java:197
URL: /managePharm/updatePharmacy

```
194   }
195
196   @RequestMapping(value = "/updatePharmacy", method = RequestMethod.POST)
197   public ModelAndView updatePharmacy(HttpServletRequest request,@Valid
@ModelAttribute("pharmacyEditForm") PharmacyForm pharmacyForm, BindingResult
bindingResult) throws IOException {
198
199   LOG.info("Trying to persist pharmacy information.");
200
```

Sink Details

Sink: org.springframework.web.servlet.ModelAndView.addObject()
Enclosing Method: updatePharmacy()
File: PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/
PharmacyManagementController.java:342
Taint Flags: HTML_ENCODE, POORVALIDATION, VALIDATED_CROSS_SITE_SCRIPTING_DOM,
VALIDATED_CROSS_SITE_SCRIPTING_INTER_COMPONENT_COMMUNICATION,

Trust Boundary Violation	Low
URL: /managePharm/updatePharmacy	
PS_INB_ERX_UI/src/main/java/gov/va/med/pharmacy/web/administration/ PharmacyManagementController.java, line 342 (Trust Boundary Violation)	Low

VALIDATED_CROSS_SITE_SCRIPTING_PERSISTENT,
VALIDATED_CROSS_SITE_SCRIPTING_REFLECTED, WEB, XSS

339	`}`
340	
341	
342	`view.addObject("pharmacyInfo",pharmacyInfo );`
343	
344	`Map<String, String> statesMap = getStatesHashMap();`
345	