

## **Test execution document: DaCoPAn**

DaCoPAn

Helsinki 27th May 2004

Software Engineering Project

UNIVERSITY OF HELSINKI  
Department of Computer Science

UNIVERSITY OF PETROZAVODSK  
Department of Computer Science

**Course**

581260 Software Engineering Project (6 cr)

**Project Group**

Carlos Arrastia Aparicio  
Jari Aarniala  
Alejandro Fernandez Rey  
Vesa Vainio  
Jarkko Laine  
Jonathan Brown

Kirill Kulakov  
Andrey Salo  
Andrey Ananin  
Mikhail Kryshen  
Viktor Surikov

**Customer**

Markku Kojo

**Project Masters**

Juha Taina (Supervisor)  
Yury Bogoyavlenskiy (Supervisor)

Turjo Tuohiniemi (Instructor)  
Dmitry Korzun (Instructor)

**Homepage**

<http://www.cs.helsinki.fi/group/dacopan>

**Change Log**

| Version | Date       | Modifications |
|---------|------------|---------------|
| 1.0     | 26.05.2004 | First version |

---

# Contents

|          |  |          |
|----------|--|----------|
| <b>1</b> | <b>Introduction</b>  | <b>1</b> |
| <b>2</b> | <b>Networking scenario tcpdump log pairs</b>   | <b>1</b> |
| 2.1      | Test TE0001 - Scenario 201 - IP Delivery and content . . . . .   | 1        |
| 2.2      | Test TE0002 - Scenario 310 - IP Fragmentation and simple UDP data transfer . . . . .   | 1        |
| 2.3      | Test TE0003 - Scenarios 321,341 and 361 - Three-way TCP connection establishment, TCP normal FIN termination and Slow start and sending data with TCP. . . . . | 2        |
| 2.4      | Test TE0004 - Scenario 362 - TCP recovery through fast retransmit (happening in slow start with packet loss) . . . . .   | 2        |
| 2.5      | Test TE0005 - Scenario 333 - TCP packet loss and recovery through RTO  | 3        |
| 2.6      | Test TE0006 - Scenario 411 - HTTP: Simple request with reply . . . . .   | 3        |
| 2.7      | Test TE0007 - Scenario 101 - ARP Lookup . . . . .  | 3        |
| <b>3</b> | <b>Other logs</b>  | <b>4</b> |
| 3.1      | Tcpdumps extracted from Windows environment . . . . .  | 4        |
| 3.2      | Test TE0008 - HTTP page retrieval . . . . .  | 4        |
| 3.3      | Tcpdumps extracted from Linux environment . . . . .  | 4        |
| 3.4      | Test TE0009 - FTP transfer between iota and zeta systems . . . . .   | 4        |
| <b>4</b> | <b>Bugs and fixes report</b>   | <b>5</b> |

# 1 Introduction

This document contains the results of the execution of different system tests completed on the DaCoPAn solution. To see other results concerning the Analyzer and Animator modules, refer to the test execution documents particular to these modules.

Section 2 introduces the results of system tests that used the tcpdump logs provided by the customer for some networking scenarios. Section 3 presents the results of tests that used other tcpdump logs. In section 4 the bugs and fixes report used to track and correct bugs can be found.

The results of the test execution will be presented in subsection of this kind:

- Id and name of the executed test.
- Description of the test, or collected results.
- Errors found if any, and maybe a reference to the bug and fixes report.

## 2 Networking scenario tcpdump log pairs

### 2.1 Test TE0001 - Scenario 201 - IP Delivery and content

- DESCRIPTION
  - Analyzer was executed for tcpdump log pair 201-MN-25022004-143643 and 201-RN-25022004-143643 and generated a pef file (pef\_1\_1.pef).
  - A human readable file was created using the tcpdump tool (pef\_1.td\_info).
  - Animator was executed and the generated pef file was loaded.
  - The information present in the visualization was the same in the human readable tcpdump file. Encapsulation was correct.
- FOUND ERRORS
  - No errors found.

### 2.2 Test TE0002 - Scenario 310 - IP Fragmentation and simple UDP data transfer

- DESCRIPTION
  - Analyzer was executed for tcpdump log pair 310-MN-25022004-143728 and 310-RN-25022004-143728 and generated a pef file (pef\_2\_1.pef).

- A human readable file was created using the tcpdump tool (pef\_2.td\_info).
  - Animator was executed and the generated pef file was loaded.
  - The information present in the visualization was the same in the human readable tcpdump file. Encapsulation was correct.
- FOUND ERRORS  
No errors found.

### **2.3 Test TE0003 - Scenarios 321,341 and 361 - Three-way TCP connection establishment, TCP normal FIN termination and Slow start and sending data with TCP.**

- DESCRIPTION
  - Analyzer was executed for tcpdump log pair 321-341-361-MN-25022004-143813 and 321-341-361-RN-25022004-143813 and generated a pef file (pef\_3\_1.pef).
  - A human readable file was created using the tcpdump tool (pef\_3.td\_info).
  - Animator was executed and the generated pef file was loaded.
  - The information present in the visualization was the same in the human readable tcpdump file. Encapsulation was correct.
- FOUND ERRORS  
No errors found.

### **2.4 Test TE0004 - Scenario 362 - TCP recovery through fast retransmit (happening in slow start with packet loss)**

- DESCRIPTION
  - Analyzer was executed for tcpdump log pair 362-MN-25022004-143848 and 362-RN-25022004-143848 and generated a pef file (pef\_4\_1.pef).
  - A human readable file was created using the tcpdump tool (pef\_4.td\_info).
  - Animator was executed and the generated pef file was loaded.
  - The information present in the visualization was the same in the human readable tcpdump file. Encapsulation was correct.
- FOUND ERRORS  
No errors found.

## **2.5 Test TE0005 - Scenario 333 - TCP packet loss and recovery through RTO**

- DESCRIPTION

- Analyzer was executed for tcpdump log pair 333-MN-07042004-151959 and 333-RN-07042004-151959 and generated a pef file (pef\_5\_1.pef).
- A human readable file was created using the tcpdump tool (pef\_5.td\_info).
- Animator was executed and the generated pef file was loaded.
- The information present in the visualization was the same in the human readable tcpdump file. Encapsulation was correct.

- FOUND ERRORS

No errors found.

## **2.6 Test TE0006 - Scenario 411 - HTTP: Simple request with reply**

- DESCRIPTION

- Analyzer was executed for tcpdump log pair 411-MN-07042004-153553 and 411-RN-07042004-153553 and generated a pef file (pef\_6\_1.pef).
- A human readable file was created using the tcpdump tool (pef\_6.td\_info).
- Animator was executed and the generated pef file was loaded.
- The information present in the visualization was the same in the human readable tcpdump file. Encapsulation was correct.

- FOUND ERRORS

No errors found.

## **2.7 Test TE0007 - Scenario 101 - ARP Lookup**

- DESCRIPTION

- Analyzer was executed for tcpdump log pair 101-arp-sender.dump and 101-arp-receiver.dump and generated a pef file (pef\_7\_1.pef).
- A human readable file was created using the tcpdump tool (pef\_7.td\_info).
- Animator was executed and the generated pef file was loaded.
- The information present in the visualization was the same in the human readable tcpdump file. Encapsulation was correct.

- FOUND ERRORS  
No errors found.

### **3 Other logs**

#### **3.1 Tcpdumps extracted from Windows environment**

Some tcpdump log pairs were extracted using some tool under windows environment. The results of testing those logs in the DaCoPAn solution are presented in this section.

#### **3.2 Test TE0008 - HTTP page retrieval**

- DESCRIPTION

Basic HTTP retrieval. Some GET commands are sent and the HTTP response arrives.

- Analyzer was executed for tcpdump log pair dump-27-1 and dump-29-1 and generated a pef file (pef\_27\_29\_1.pef), and also with dump27-2 and dump29-2 generating pef\_27\_29\_2.pef
- Animator was executed and the generated pef file was loaded.
- The information present in the visualization was the same in the human readable tcpdump file. Encapsulation was correct.

- FOUND ERRORS  
No errors found.

#### **3.3 Tcpdumps extracted from Linux environment**

Other tcpdump log pairs than the ones provided by the customer that the DaCoPAn group has used in order to test the solution, collected under linux environment.

#### **3.4 Test TE0009 - FTP transfer between iota and zeta systems**

- DESCRIPTION

Execution of basic FTP commands.

- Analyzer was executed for tcpdump log pair 2-FTP-iota.dump and 2-FTP-zeta.dump and generated a pef file (pef\_iota\_zeta\_1.pef).
- Animator was executed and the generated pef file was loaded.

- The information present in the visualization was the same in the human readable tcpdump file. Encapsulation was correct.

- FOUND ERRORS

No errors found.

## 4 Bugs and fixes report

```

-----
BUG_ID
    0001
WHICH_MODULE
    Animator
WHO_FOUND
    CarlosArrastia
WHEN_FOUND
    06.05.2004 - 20:40 (GMT+3)
BUG_DESCRIPTION
    The animator gets stuck when trying to show variables
    and header fields. This happens in the refresh of the
    MSC panel. To reproduce this bug go to the settings
    panel in explore mode, select some of the variables or
    header fields for the active layer and accept the changes.
    When the MSC is refreshed, it crashes... Null pointer
    exception thrown.
WHO_NOTICED
    VesaVainio
WHO_FIXED
    VesaVainio
WHEN_FIXED
    6.5.2004
FIX_DESCRIPTION
    Error was located in
    dacopan.ui.MSCPanel.MSCDrawingpanel.paintColumnValues
    method. Error was caused by not checking if a variable
    value is null or not. Trying to get string bounds for
    a null string caused the NullPointerException.
FIXED_IN
    Fix is in MSCPanel.java CVS version 1.27.
CONFIRMED_IN

-----
BUG_ID

```



0002  
WHICH\_MODULE  
Analyzer  
WHO\_FOUND  
CarlosArrastia  
WHEN\_FOUND  
06.05.2004 - 21:10 (GMT+3)  
BUG\_DESCRIPTION  
The analyzer doesn't set the right scope for the header  
fields. For these header fields the scope should be  
unit-field instead of unit. I got this from the pef\_4\_1  
WHO\_NOTICED  
ViktorSurikov  
WHO\_FIXED  
ViktorSurikov  
WHEN\_FIXED  
7.5.2004 - 17.20 (GMT+3)  
FIX\_DESCRIPTION  
Error was located in function pef\_write\_variables in  
pefwrite.c.  
FIXED\_IN  
pefwrite.c version 1.35  
CONFIRMED\_IN

-----  
BUG\_ID  
0003  
WHICH\_MODULE  
Animator  
WHO\_FOUND  
JarkkoLaine  
WHEN\_FOUND  
05.05.2004 - 12:10 (GMT+3)  
BUG\_DESCRIPTION  
Time panel updates to weird values when changing layers.  
WHO\_NOTICED  
JarkkoLaine  
WHO\_FIXED  
JarkkoLaine  
WHEN\_FIXED  
07.05.2004 - 12:28 (GMT+3)  
FIX\_DESCRIPTION  
The error was located in the class dacopan.ui.StatusBar  
and caused the animator to add several time panels on the  
same area in the status bar.

FIXED\_IN  
    StatusBar.java  
CONFIRMED\_IN

-----  
BUG\_ID  
    0004  
WHICH\_MODULE  
    Animator  
WHO\_FOUND  
    JonathanBrown  
WHEN\_FOUND  
    07.05.2004 - 17:17 (GMT+3)  
BUG\_DESCRIPTION  
    The settings panel dialog for selecting variables into MSC  
    columns uses the abbreviated versions of the vars. Shouldn't  
    it be full names?  
WHO\_NOTICED  
    JonathanBrown  
WHO\_FIXED  
    CarlosArrastia  
WHEN\_FIXED  
    07.05.2004 - 17:23 (GMT+3)  
FIX\_DESCRIPTION  
    Changed method for full name extraction  
FIXED\_IN  
    SettingsPanelLayer.java  
CONFIRMED\_IN

-----  
BUG\_ID  
    0005  
WHICH\_MODULE  
    Animator  
WHO\_FOUND  
    AlejandroFernandez  
WHEN\_FOUND  
    07.05.2004 - 20:11 (GMT+3)  
BUG\_DESCRIPTION  
    Load pef\_6\_1.pef, press Settings button and select to  
    visualize the application variable called Unknown APP  
    - Data. When visualizing the application layer, the data  
    doesn't fit into the column and it is then  
    unreadable.  
WHO\_NOTICED

```
VesaVainio
WHO_FIXED
  VesaVainio
WHEN_FIXED
  11.5.2004 17:00 (GMT+3)
FIX_DESCRIPTION
  Fix includes two thing. The first thing is that clipping
  is used to make sure values are not painted outside the
  correct column. Second part is that if the value does
  not fit in the column, the beginning (left edge) of the
  value is aligned with the left edge of the column. (When
  the value fits in column, the right edge of value is aligned
  with right edge of column, as before. The difference for
  non-fitting values is that the beginning of the value is now
  shown, rather than the end.
FIXED_IN
  MSCPanel.java version 1.39
CONFIRMED_IN
-
-----
BUG_ID
  0006
WHICH_MODULE
  Animator
WHO_FOUND
  AlejandroFernandez
WHEN_FOUND
  08.05.2004 - 12:15 (GMT+3)
BUG_DESCRIPTION
  When running the Animator, the menu button
  File->Exit of the upper menu bar
  doesn't close the Animator.
WHO_NOTICED
  JarkkoLaine
WHO_FIXED
  JarkkoLaine
WHEN_FIXED
  08.05.2004 - 13:52 (GMT+3)
FIX_DESCRIPTION
  Implemented the exit operation.
FIXED_IN
  UserInterface.java version 1.38
CONFIRMED_IN
-
```

```
-----  
BUG_ID  
    0007  
WHICH_MODULE  
    Animator  
WHO_FOUND  
    AlejandroFernandez  
WHEN_FOUND  
    08.05.2004 - 12:15 (GMT+3)  
BUG_DESCRIPTION  
    Load a PEF into Animator, and press the  
    upper menu bar button File->Settings. The settings  
    panel should appear, but it doesn't.  
WHO_NOTICED  
    JarkkoLaine  
WHO_FIXED  
    JarkkoLaine  
WHEN_FIXED  
    08.05.2004 - 14:23 (GMT+3)  
FIX_DESCRIPTION  
    Implemented the action listener for the menu button  
FIXED_IN  
    UserInterface.java version 1.39  
CONFIRMED_IN  
-
```

```
-----  
BUG_ID  
    0008  
WHICH_MODULE  
    Animator  
WHO_FOUND  
    JonathanBrown  
WHEN_FOUND  
    08.05.2004 - 13:39 (GMT+3)  
BUG_DESCRIPTION  
    When a NET packet is dropped, and the TRA parent is  
    also dropped, the MSC doesn't draw them correctly.  
    Dataview is responsible for this small error, the  
    dataview doesn't read the pef strictly.  
    (See pef_4_1.pef or pef_4_2.pef between times  
    0.4122 and 0.5201)  
WHO_NOTICED  
    JariAarniala  
WHO_FIXED
```

JariAarniala  
WHEN\_FIXED  
10.05.2004 - 13:30 (GMT+3)  
FIX\_DESCRIPTION  
Dropped flag was not correctly set for units with  
children, changed TransferUnit constructor by  
adding the dropped flag for every unit  
FIXED\_IN  
XMLProtocolEventsReader.java 1.14,  
TransferUnit.java 1.19 and others  
CONFIRMED\_IN  
-

-----  
BUG\_ID  
0009  
WHICH\_MODULE  
Animator  
WHO\_FOUND  
AlejandroFernandez  
WHEN\_FOUND  
08.05.2004 - 14:15 (GMT+3)  
BUG\_DESCRIPTION  
The upper menu bar button Layer doesn't reflect  
the actual layer. When pushed, it always shows  
the selected layer as the one on top.  
WHO\_NOTICED  
JarkkoLaine  
WHO\_FIXED  
JarkkoLaine  
WHEN\_FIXED  
10.05.2004 - 14.10 (GMT+3)  
FIX\_DESCRIPTION  
Changed the order of some calls.  
FIXED\_IN  
UserInterface.java version 1.41  
CONFIRMED\_IN  
-

-----  
BUG\_ID  
0010  
WHICH\_MODULE  
Analyzer  
WHO\_FOUND

CarlosArrastia  
WHEN\_FOUND  
10.05.2004 - 15:15 (GMT+3)  
BUG\_DESCRIPTION  
Analyzer maps the ARP messages into the Network layer  
and that should be done in a different ARP layer  
WHO\_NOTICED  
ViktorSurikov  
WHO\_FIXED  
ViktorSurikov  
WHEN\_FIXED  
18.05.2004 - 10:20 (GMT+3)  
FIX\_DESCRIPTION  
Delete old constant string  
FIXED\_IN  
pefwrite.c (CVS ver. 1.45)  
CONFIRMED\_IN  
-

-----  
BUG\_ID  
0011  
WHICH\_MODULE  
Animator  
WHO\_FOUND  
AlejandroFernandez  
WHEN\_FOUND  
11.05.2004 - 11:45 (GMT+3)  
BUG\_DESCRIPTION  
In recording mode (inside scenario mode), if many  
items are added to the play list, the only way to  
see some elements is to make the window bigger.  
Maybe a vertical scrolling bar could be good.  
WHO\_NOTICED  
VesaVainio  
WHO\_FIXED  
VesaVainio  
WHEN\_FIXED  
11.5.2004 14:30 (GMT+3)  
FIX\_DESCRIPTION  
The scrollpane was not working properly, because the  
JList showing the list had some size attributes set.  
Removed these, and not the JScrollPane  
works properly. Everything beautiful now.  
FIXED\_IN

```
ScenarioEditorPanel.java (version 1.17)
ScenarioEditorPanel.form (version 1.10)
CONFIRMED_IN
-

-----

BUG_ID
  0012
WHICH_MODULE
  Animator
WHO_FOUND
  JarkkoLaine
WHEN_FOUND
  11.05.2004 - 12:45 (GMT+3)
BUG_DESCRIPTION
  Fast forward and rewind buttons should be disabled
  if the animation is at the ends of the animation.
WHO_NOTICED
  JarkkoLaine
WHO_FIXED
  JarkkoLaine
WHEN_FIXED
  27.5.2004
FIX_DESCRIPTION
  Implemented methods isAtBeginning() and isAtEnd()
  in AnimationTimeState and in MainFrame. The ones in
  MainFrame just return the values from their
  AnimationTimeState counterparts. UserInterface
  didn't require any changes.
FIXED_IN
  AnimationTimeState.java 1.17
  MainFrame.java 1.102
CONFIRMED_IN
-

-----

BUG_ID
  0013
WHICH_MODULE
  Animator
WHO_FOUND
  CarlosArrastia
WHEN_FOUND
  11.05.2004 - 18:50 (GMT+3)
BUG_DESCRIPTION
```

The animator paints the in a wrong situation the information about header fields in dropped packets

WHO\_NOTICED  
 VesaVainio

WHO\_FIXED  
 VesaVainio

WHEN\_FIXED  
 12.5.2004 09:00 (GMT+3)

FIX\_DESCRIPTION  
 Created a special case for handling the geometry in the case of dropped packets.

FIXED\_IN  
 MSCPanel.java (version 1.46)

CONFIRMED\_IN  
 -

-----

BUG\_ID  
 0014

WHICH\_MODULE  
 Analyzer

WHO\_FOUND  
 KirillKulakov

WHEN\_FOUND  
 10.05.2004 - 15:00 (GMT+3)

BUG\_DESCRIPTION  
 Application-layer message is marked as dropped when all fragments are received successfully (test pf\_8\_4.sh).

WHO\_NOTICED  
 MikhailKryshen

WHO\_FIXED  
 MikhailKryshen

WHEN\_FIXED  
 15.05.2004

FIX\_DESCRIPTION  
 Do not try to extract application messages from received events, extract only from sent (remove TCP\_DEFRAG\_BY\_SENT definition in ec\_tcp.c to cancel this fix).  
 25.05.2004: undid the fix: this was not a bug, the described behaviour was caused by the incomplete finalization of TCP connection in the test. Also the fix caused bug 0022.

FIXED\_IN



ec\_tcp.c version 1.8  
CONFIRMED\_IN

-

-----  
BUG\_ID  
0015  
WHICH\_MODULE  
Analyzer  
WHO\_FOUND  
KirillKulakov  
WHEN\_FOUND  
17.05.2004 - 12:20 (GMT+3)  
BUG\_DESCRIPTION  
If we adds PTU after last PTU in PTP the link  
to next element did not set as NULL.  
WHO\_NOTICED  
KirillKulakov  
WHO\_FIXED  
KirillKulakov  
WHEN\_FIXED  
2004-05-17  
FIX\_DESCRIPTION  
When last PTU in PTP be changed the link to next  
element set as NULL.  
FIXED\_IN  
msgmap.c version 1.28  
CONFIRMED\_IN

-

-----  
BUG\_ID  
0016  
WHICH\_MODULE  
Animator  
WHO\_FOUND  
VesaVainio  
WHEN\_FOUND  
18.05.2004 - 10:10 (GMT+2)  
BUG\_DESCRIPTION  
Open e.g. test\_pefs/pef\_writef\_01.pef (CVS version 1.10).  
You get exception:  
java.lang.RuntimeException: Must have two hosts!  
at fi.helsinki.dacopan.ui.MainFrame.createDefaultSettings  
(MainFrame.java:807)

After this the program is left in a state where everything looks normal, but nothing works.

This seems to be caused by the requirement that there needs to be AT LEAST two hosts present in the PEF file.

Suggested fix would be either:

- a) Catch the situation already in loading code and refuse to load the file if it doesn't have two hosts.
- b) Have an error dialog shown to the user and leave the program in a valid state.

WHO\_NOTICED

JariAarniala

WHO\_FIXED

JariAarniala

WHEN\_FIXED

24.05.2004 - 21:00 (GMT+2)

FIX\_DESCRIPTION

Fixed using the approach a) (i.e. added a restriction to XMLProtocolEventsReader.java that a PEF must contain  $\geq 2$  hosts). Also improved error reporting.

FIXED\_IN

MainFrame.java v1.98, XMLProtocolEventsReader.java v1.16

CONFIRMED\_IN

-

-----  
BUG\_ID

0017

\*\*\* This bug report was a duplicate of bug \#0010,  
please refer to it instead

- Jari

-----  
BUG\_ID

0018

WHICH\_MODULE

Animator

WHO\_FOUND

VesaVainio

WHEN\_FOUND

20.5.2004 - HH:MM (GMT+2)

## BUG\_DESCRIPTION

Sometimes when I click the 'Load' button I get the output that I'll paste below. It is possible that the error is not even caused by our code, but still it would seem nice to be able to catch this kind of exception. Now the program is left in an invalid state and needs to be restarted.

Here is the output:

```

FileSystemView.getShellFolder: f=E:\\Dacopan\\dacopan\\test_pefs
java.io.FileNotFoundException: Could not find file E:\\Dacopan\\dacop
    at sun.awt.shell.Win32ShellFolder2.parseDisplayName(Win32Shel
    at sun.awt.shell.Win32ShellFolderManager2.createShellFolder(W
    at sun.awt.shell.Win32ShellFolderManager2.createShellFolder(W
    at sun.awt.shell.ShellFolder.getShellFolder(ShellFolder.java:
    at javax.swing.filechooser.FileSystemView.getShellFolder(File
    at javax.swing.filechooser.FileSystemView.getFiles(FileSystem
    at javax.swing.plaf.basic.BasicDirectoryModel$LoadFilesThread
FileSystemView.getShellFolder: f=E:\\Dacopan\\dacopan\\test_pefs
FileSystemView.getShellFolder: f=E:\\Dacopan\\dacopan\\test_pefs
java.lang.NullPointerException
    at javax.swing.filechooser.FileSystemView.getFiles(FileSystem
    at javax.swing.plaf.basic.BasicDirectoryModel$LoadFilesThread
java.io.FileNotFoundException: Could not find file E:\\Dacopan\\dacop
    at sun.awt.shell.Win32ShellFolder2.parseDisplayName(Win32Shel
    at sun.awt.shell.Win32ShellFolderManager2.createShellFolder(W
    at sun.awt.shell.Win32ShellFolderManager2.createShellFolder(W
    at sun.awt.shell.ShellFolder.getShellFolder(ShellFolder.java:
    at javax.swing.filechooser.FileSystemView.getShellFolder(File
    at javax.swing.filechooser.FileSystemView.getFiles(FileSystem
    at javax.swing.plaf.basic.BasicDirectoryModel$LoadFilesThread
java.io.FileNotFoundException: Could not find file E:\\Dacopan\\dacop
    at sun.awt.shell.Win32ShellFolder2.parseDisplayName(Win32Shel
    at sun.awt.shell.Win32ShellFolderManager2.createShellFolder(W
    at sun.awt.shell.Win32ShellFolderManager2.createShellFolder(W
    at sun.awt.shell.ShellFolder.getShellFolder(ShellFolder.java:
    at javax.swing.filechooser.FileSystemView.getShellFolder(File
    at javax.swing.filechooser.FileSystemView.getFiles(FileSystem
    at javax.swing.plaf.basic.BasicDirectoryModel$LoadFilesThread
java.lang.NullPointerException
    at javax.swing.filechooser.FileSystemView.getFiles(FileSystem
    at javax.swing.plaf.basic.BasicDirectoryModel$LoadFilesThread
java.lang.NullPointerException
    at javax.swing.filechooser.FileSystemView.getFiles(FileSystem
    at javax.swing.plaf.basic.BasicDirectoryModel$LoadFilesThread

```

WHO\_NOTICED

JariAarniala

WHO\_FIXED

VesaVainio

WHEN\_FIXED

24.5.2004 21:35 (GMT+2)

FIX\_DESCRIPTION

Jari:

This is a bug in the j2sdk itself (reference:  
<http://developer.java.sun.com/developer/bugParade/bugs/4869950.htm>  
 will fix soon.

Vesa:

Fixed by catching anything Throwable in  
 UserInterface.loadFile(). The bug  
 is difficult to reproduce, so I can't test my  
 fix instantly. Also, the error message for user is  
 not very informative, as I did it by using  
 something we already have in the localisable  
 resources. (mainframe.title\_loading\_pef\_failed =  
 "Loading protocol events file failed")

FIXED\_IN

UserInterface.java (version 1.61)

CONFIRMED\_IN

-

-----  
 BUG\_ID

0019

WHICH\_MODULE

Animator

WHO\_FOUND

VesaVainio

WHEN\_FOUND

23.5.2004 - HH:MM (GMT+2)

BUG\_DESCRIPTION

1. Start animator
2. Load pef\_7\_2.pef
3. Skip to the end
4. Look at UFO panel

Observed: The red cross (for dropped packet)  
 is centered at the edge of a  
 packet.

Expected: The cross should be centered at the center of the packet.

I've seen this with some other pefs and packets as well.

WHO\_NOTICED

-

WHO\_FIXED

-

WHEN\_FIXED

-

FIX\_DESCRIPTION

-

FIXED\_IN

-

CONFIRMED\_IN

-

-----

BUG\_ID

0020

WHICH\_MODULE

Animator

WHO\_FOUND

AlejandroFernandez \& CarlosArrastia

WHEN\_FOUND

22.5.2004 18:00 (GMT+2)

BUG\_DESCRIPTION

If you open the scenario playlist panel and after that change the language, the language in the panel doesn't change. In fact, the items in the list change their language, but not the buttons or frame title...

WHO\_NOTICED

VesaVainio

WHO\_FIXED

VesaVainio

WHEN\_FIXED

24.5.2004 21:00 (GMT+2)

FIX\_DESCRIPTION

When the language is changed, AnimationSequence.refreshWindow() is called. However, the semantics of this method were a bit unclear. Now the semantics is changed so that the whole window is completely re-created when this

method is called. (The window title was previously static in ScenarioEditorDialog.java, but now it's changed to non-static.) Now the refreshWindow() also preserves other aspects of the old window, like location, size and visibility status.

FIXED\_IN

AnimationSequence.java (version 1.32)

ScenarioEditorDialog.java (version 1.6)

CONFIRMED\_IN

-

-----  
BUG\_ID

0021

WHICH\_MODULE

Animator

WHO\_FOUND

AlejandroFernandez

WHEN\_FOUND

24.5.2004 - 19:54 (GMT+2)

BUG\_DESCRIPTION

Load pef\_5\_1.pef. There are 2 lost units at 0,4518 secs and 0,5531. If you choose to represent TT variable in Network layer, you can see that the value of TT for the lost units is "unknown" (which is normal), but if you change the language to spanish/russian/finnish, TT is still "unknown", that is the string is not localised.

WHO\_NOTICED

-

WHO\_FIXED

-

WHEN\_FIXED

-

FIX\_DESCRIPTION

-

FIXED\_IN

-

CONFIRMED\_IN

-

-----  
BUG\_ID

0022

WHICH\_MODULE

Analyzer  
WHO\_FOUND  
JonathanBrown  
WHEN\_FOUND  
23.5.2004 - 14:38 (GMT+2)  
BUG\_DESCRIPTION  
Jonathan: "In scen 4.2, we have a dropped NET IP  
packet, and it's parent TCP packet  
is also dropped.. (of course).. but why is  
the whole root HTTP packet marked as "dropped"  
in the animation?"  
Jari: the HTTP unit is marked dropped in the  
PEF, and this is wrong in my opinion (although  
a single TCP unit was dropped, the  
whole HTTP unit wasn't).  
WHO\_NOTICED  
KirillKulakov  
WHO\_FIXED  
MikhailKryshen  
WHEN\_FIXED  
25.05.2004 - 16:00 (GMT+3)  
FIX\_DESCRIPTION  
Undid the fix of bug 0014 (see FIX\_DESCRIPTION  
for bug 0014).  
FIXED\_IN  
ec\_tcp.c (version 1.10)  
CONFIRMED\_IN  
-

-----  
BUG\_ID  
0023  
WHICH\_MODULE  
Animator  
WHO\_FOUND  
VesaVainio  
WHEN\_FOUND  
25.5.2004 - 19:45 (GMT+2)  
BUG\_DESCRIPTION  
1. Launch the animator.  
2. Create a scenario file with an ENC  
item as the first item.  
3. Save the file.  
4. Close the animator.  
5. Launch the animator again.

6. Load the file you just saved.

EXPECTED: You would just see the encapsulation corresponding to the first item in the play list.

OBSERVED: A dialog with title "Loading protocol events file failed" and text "Protocol events reader reported error: null".

WHO\_NOTICED

VesaVainio

WHO\_FIXED

VesaVainio

WHEN\_FIXED

25.5.2004 - 20:15 (GMT+2)

FIX\_DESCRIPTION

This was probably caused by the call animatorTimeState.pause() in MainFrame when the animatorTimeState was still null. (Nice catching just Exception when you're really looking for only IOExceptions...) I added the checking for null.

FIXED\_IN

MainFrame.java (version 1.99)

CONFIRMED\_IN

-