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Test Results for Mobile Device Acquisition Tool: Guidance Software Neutrino 1.4.14

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NCJ 224150

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David W. Hagy
Director, National Institute of Justice

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August 2008

Test Results for Mobile Device Acquisition Tool:
Guidance Software Neutrino 1.4.14

National Institute of
Standards and Technology
U.S. Department of Commerce

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Introduction

The Computer Forensics Tool Testing (CFTT) program is a joint project of the National Institute of Justice (NIJ), the research and development organization of the U.S. Department of Justice (DOJ), and the National Institute of Standards and Technology's (NIST's) Office of Law Enforcement Standards and Information Technology Laboratory. CFTT is supported by other organizations, including the Federal Bureau of Investigation, the U.S. Department of Defense Cyber Crime Center, U.S. Internal Revenue Service Criminal Investigation Division Electronic Crimes Program, and the U.S. Department of Homeland Security's Bureau of Immigration and Customs Enforcement, U.S. Customs and Border Protection, and U.S. Secret Service. The objective of the CFTT program is to provide measurable assurance to practitioners, researchers, and other applicable users that the tools used in computer forensics investigations provide accurate results. Accomplishing this requires the development of specifications and test methods for computer forensics tools and subsequent testing of specific tools against those specifications.

Test results provide the information necessary for developers to improve tools, users to make informed choices, and the legal community and others to understand the tools' capabilities. This approach to testing computer forensic tools is based on well-recognized methodologies for conformance and quality testing. The specifications and test methods are posted on the CFTT Web site (http://www.cftt.nist.gov/) for review and comment by the computer forensics community.

This document reports the results from testing Guidance Software Neutrino, version 1.4.14, against the *GSM Mobile Device and Associated Media Tool Specification and Test Plan Version 1.1*, available at the CFTT Web site (http://www.cftt.nist.gov/GSM-Mobile-Device-and-Associated-Media-Tool-Specification-and-Test-Plan.pdf). Collected data packets (sent and received data transmissions) for mobile device internal memory acquisitions and SIM internal memory acquisitions, captured via a port monitoring utility, are posted at www.cftt.nist.gov/mobile_devices.htm.

Test results from other software packages and the CFTT tool methodology can be found on NIJ's computer forensics tool testing Web page, http://www.ojp.usdoj.gov/nij/topics/technology/electronic-crime/cftt.htm.

Test Results for Mobile Device Data Acquisition Tool

Tool Tested:	Guidance Software Neutrino
Version:	1.4.14
Run Environments:	Windows XP Service Pack 2
Supplier:	Guidance Software
Address:	215 North Marengo Ave., Suite 250 Pasadena, CA 91101
Tel:	626–229–9191
Fax:	626–229–9199
WWW:	http://www.guidancesoftware.com

1 Results Summary

Except for the following test cases (CFT–IM–08, CFT–SIM–07, CFT–IMO–10), the tested tool acquired all supported data objects completely and accurately from the selected test mobile devices and associated media (i.e., Nokia 6101, T-Mobile SIM, Motorola RAZR V3, AT&T SIM). The exceptions are the following:

1. EMS messages (text messages over 160 characters were not acquired for the Motorola RAZR V3). (CFT–IM–08)
2. Maximum length ADNs and ADNs that contain special characters for the name (i.e., '@') were not reported. (CFT–SIM–07)
3. Stand-alone internal memory acquisitions alter the status flags of 'unread' text messages present on the SIM to 'read'. (CFT–IMO–10)

2 Test Case Selection

Not all test cases or test assertions are appropriate for all tools. In addition to the base test cases, each remaining test case is linked to optional tool features needed for the test case. If a given tool implements a given feature then the test cases linked to that feature are run. Table 1 lists the features available in Guidance Software's Neutrino V1.4.14 and the linked test cases.

Table 2 lists the features not available in Guidance Software's Neutrino v1.4.14 and the linked test cases.

Table 1 Selected Test Cases

Supported Optional Feature	Cases selected for execution
Base Cases	CFT–IM–(01–02,04–08,10), CFT–SIM–(01–07, 08, 09)
Acquire mobile device internal memory and review data via supported generated report formats	CFT–IMO–01
Acquire mobile device internal memory and review reported data via the preview pane	CFT–IMO–02
Acquire mobile device internal memory and compare reported data via the preview pane and supported generated report formats	CFT–IMO–03
After a successful mobile device internal memory acquisition, alter the case file via third party means and attempt to reopen the case	CFT–IMO–04
Perform a stand-alone mobile device internal memory acquisition and review the status flags for text messages present on the SIM	CFT–IMO–10
Acquire mobile device internal memory and review hash values for vendor supported data objects	CFT–IMO–11
Acquire SIM internal memory and review acquired data via supported generated report formats	CFT–SIMO–01
Acquire SIM internal memory and review acquired data via the preview pane	CFT–SIMO–02
Acquire SIM internal memory and compare acquired data via the preview pane and supported generated reports	CFT–SIMO–03
After a successful SIM internal memory acquisition, alter the case file via third party means and attempt to reopen the case	CFT–SIMO–04
Acquire SIM internal memory and review reports for recoverable deleted data	CFT–SIMO–05

Begin acquisition on a PIN protected SIM to determine if the tool provides an accurate count of the remaining number of PIN attempts and if the PIN attempts are decremented when entering an incorrect value	CFT–SIMO–08
Begin acquisition on a SIM whose PIN attempts have been exhausted to determine if the tool provides an accurate count of the remaining number of PUK attempts and if the PUK attempts are decremented when entering an incorrect value	CFT–SIMO–09
Acquire SIM internal memory and review hash values for vendor supported data objects	CFT–SIMO–10

Table 2 Omitted Test Cases

Unsupported Optional Feature	Cases omitted (not executed)
Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement	CFT–IM–03
Acquire mobile device internal memory and review reported MMS multimedia related data (i.e., text, audio, graphics, video)	CFT–IM–09
Acquire SIM internal memory and review reported location related data (i.e., LOCI, GPRSLOCI)	CFT–SIM–10
Perform a physical acquisition and review data output for readability	CFT–IMO–05
Perform a physical acquisition and review reports for recoverable deleted data	CFT–IMO–06
Create a SIM access card via vendor documentation	CFT–IMO–07
Acquire mobile device internal memory and review generated log files	CFT–IMO–08
Acquire mobile device internal memory and review data containing foreign language characters	CFT–IMO–09
Acquire mobile device internal memory and review the overall case file hash	CFT–IMO–12
Acquire SIM internal memory and review generated log files	CFT–SIMO–06
Acquire SIM internal memory and review data containing foreign language characters	CFT–SIMO–07
Acquire SIM internal memory and review the overall case file hash.	CFT–SIMO–11

3 Results by Test Assertion

Table 4 summarizes the test results by assertion. The column labeled **Assertion** gives the text of each assertion. The column labeled **Tests** gives the number of test cases that use the given assertion. The column labeled **Anomaly** gives the section number in this report where the anomaly is discussed.

Table 3 Assertions Tested

Assertions Tested	Tests	Anomaly
A_IM–01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).	9	
A_IM–02 If a cellular forensic tool attempts to connect to a non-supported device then the tool shall have the ability to identify that the device is not supported.	1	
A_IM–04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview pane or generated report.	7	
A_IM–06 If a cellular forensic tool successfully completes acquisition of the target device then equipment related information shall be presented in a human-readable format without modification.	1	
A_IM–07 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries shall be presented in a human-readable format without modification.	1	
A_IM–08 If a cellular forensic tool successfully completes acquisition of the target device then all known maximum length address book entries shall be presented in a human-readable format without modification.	1	
A_IM–09 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing special characters shall be presented in a human-readable format without modification.	1	
A_IM–10 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing blank names shall be presented in a human-readable format without modification.	1	
A_IM–11 If a cellular forensic tool successfully completes acquisition of the target device then all known email addresses associated with address book entries shall be presented in a human-readable format without modification.	1	
A_IM–12 If a cellular forensic tool successfully completes acquisition of the target device then all known graphics associated with address book entries shall be presented in a human-readable format without modification.	1	
A_IM–13 If a cellular forensic tool successfully completes acquisition	1	

of the target device then all known datebook, calendar, note entries shall be presented in a human-readable format without modification.		
A_IM–14 If a cellular forensic tool successfully completes acquisition of the target device then all maximum length datebook, calendar, note entries shall be presented in a human readable format without modification.	1	
A_IM–15 If a cellular forensic tool successfully completes acquisition of the target device then all call logs (incoming/outgoing) shall be presented in a human-readable format without modification.	1	
A_IM–16 If a cellular forensic tool successfully completes acquisition of the target device then all text messages (i.e., SMS, EMS) messages shall be presented in a human-readable format without modification.	1	3.1
A_IM–20 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone audio files shall be playable via either an internal application or suggested third-party application without modification.	1	
A_IM–21 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone image files shall be viewable via either an internal application or suggested third-party application without modification.	1	
A_IM–22 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone video files shall be viewable via either an internal application or suggested third-party application without modification.	1	
A_SIM–23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).	9	
A_SIM–24 If a cellular forensic tool attempts to connect to a non-supported SIM then the tool shall have the ability to identify that the SIM is not supported.	1	
A_SIM–25 If a cellular forensic tool encounters disengagement between the SIM reader and application then the application shall notify the user that connectivity has been disrupted.	1	
A_SIM–26 If the SIM is password protected then the cellular forensic tool shall provide the examiner with the opportunity to input the PIN before acquisition.	1	
A_SIM–27 If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview pane or generated report.	6	
A_SIM–29 If a cellular forensic tool successfully completes acquisition of the target SIM then the ICCID shall be presented in a human-readable format without modification.	1	
A_SIM–30 If a cellular forensic tool successfully completes acquisition of the target SIM then the IMSI shall be presented in a human-readable	1	

format without modification.		
A_SIM–32 If a cellular forensic tool successfully completes acquisition of the target SIM then all Abbreviated Dialing Numbers (ADN) shall be presented in a human-readable format without modification.	1	3.2
A_SIM–33 If a cellular forensic tool successfully completes acquisition of the target SIM then all Last Numbers Dialed (LND) shall be presented in a human-readable format without modification.	1	
A_SIM–34 If a cellular forensic tool successfully completes acquisition of the target SIM then all SMS text messages shall be presented in a human-readable format without modification.	1	
A_SIM–35 If a cellular forensic tool successfully completes acquisition of the target SIM then all EMS text messages shall be presented in a human-readable format without modification.	1	
A_IMO–38 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.	8	
A_IMO–39 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.	8	
A_IMO–40 If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements.	1	
A_IMO–41 If modification is attempted to the case file or individual data elements via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.	1	
A_IMO–55 If the cellular forensic tool supports stand-alone acquisition of internal memory with the SIM present, then the contents of the SIM shall not be modified during internal memory acquisition.	1	3.3
A_IMO–56 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.		
A_SIMO–58 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.	6	
A_SIMO–59 If a cellular forensic tool successfully completes acquisition of the SIM then the tool shall present the acquired data in a human-readable format without modification in a preview-pane view.	6	
A_SIMO–60 If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements.	1	
A_SIMO–61 If modification is attempted to the case file or individual data elements via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.	1	
A_SIMO–62 If the cellular forensic tool successfully completes acquisition of the target SIM and recoverable deleted SMS messages	1	

exist then the tool shall present recoverable deleted data in a human-readable format without modification.		
A_SIMO–63 If the cellular forensic tool successfully completes acquisition of the target SIM and recoverable deleted EMS messages exist then the tool shall present recoverable deleted data in a human-readable format without modification.	1	
A_SIMO–67 If a cellular forensic tool provides the examiner with the remaining number of authentication attempts then the application should provide an accurate count of the remaining PIN attempts.	1	
A_SIMO–68 If a cellular forensic tool provides the examiner with the remaining number of PUK attempts then the application should provide an accurate count of the remaining PUK attempts.	1	
A_SIMO–69 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object	1	

Table 5 lists the assertions that were not tested, usually due to the tool not supporting an optional feature.

Table 4 Assertions Not Tested

Assertions not Tested
A_IM–03 If a cellular forensic tool encounters disengagement between the device and application then the application shall notify the user that connectivity has been disrupted.
A_IM–05 If a cellular forensic tool successfully completes acquisition of the target device then subscriber related information shall be presented in a human-readable format without modification.
A_IM–17 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated audio shall be presented properly without modification.
A_IM–18 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated images shall be presented properly without modification.
A_IM–19 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated video shall be presented properly without modification.
A_SIM–28 If a cellular forensic tool successfully completes acquisition of the target SIM then the SPN shall be presented in a human-readable format without modification.
A_SIM–31 If a cellular forensic tool successfully completes acquisition of the target SIM then the MSISDN shall be presented in a human-readable format without modification.
A_SIM–36 If a cellular forensic tool successfully completes acquisition of the target SIM then all location related data (i.e., LOCI) shall be presented in a human-readable format without modification.
A_SIM–37 If a cellular forensic tool successfully completes acquisition of the target SIM then all location related data (i.e., GRPSLOCI) shall be presented in a human-readable

format without modification.
A_IMO–42 If the cellular forensic tool supports a physical acquisition of the target device then the tool shall successfully complete the acquisition and present the data in a human-readable format.
A_IMO–43 If the cellular forensic tool supports a physical acquisition of address book entries present on the target device then the tool shall report recoverable deleted data or address book data remnants in a human-readable format.
A_IMO–44 If the cellular forensic tool supports a physical acquisition of calendar, tasks, or notes present on the target device then the tool shall report recoverable deleted calendar, tasks, or note data remnants in a human-readable format.
A_IMO–45 If the cellular forensic tool supports a physical acquisition of call logs present on the target device then the tool shall report recoverable deleted call or call log data remnants in a human-readable format.
A_IMO–46 If the cellular forensic tool supports a physical acquisition of SMS messages present on the target device then the tool shall report recoverable deleted SMS messages or SMS message data remnants in a human-readable format.
A_IMO–47 If the cellular forensic tool supports a physical acquisition of EMS messages present on the target device then the tool shall report recoverable deleted EMS messages or EMS message data remnants in a human-readable format.
A_IMO–48 If the cellular forensic tool supports a physical acquisition of audio files present on the target device then the tool shall report recoverable deleted audio data or audio file data remnants in a human-readable format.
A_IMO–49 If the cellular forensic tool supports a physical acquisition of graphic files present on the target device then the tool shall report recoverable deleted graphic file data or graphic file data remnants in a human-readable format.
A_IMO–50 If the cellular forensic tool supports a physical acquisition of video files present on the target device then the tool shall report recoverable deleted video file data or video file data remnants in a human-readable format.
A_IMO–51 If the cellular forensic tool supports SIM access card creation then the card creation shall be completed without errors via manufacturer suggested protocols.
A_IMO–52 If the cellular forensic tool supports log creation then the application should present the log files outlining the acquisition process in a human-readable format.
A_IMO–53 If the cellular forensic tool supports proper display of foreign language character sets then the application should present address book entries containing foreign language characters in their native format without modification.
A_IMO–54 If the cellular forensic tool supports proper display of foreign language character sets then the application should present text messages containing foreign language characters in their native format without modification.
A_IMO–57 If the cellular forensic tool supports hashing the overall case file then the tool shall present the user with one hash value representing the entire case data.
A_SIMO–64 If a cellular forensic tool supports the creation of log files then the application should present the log files in a human-readable format outlining the acquisition process.
A_SIMO–65 If the cellular forensic tool supports proper display of foreign language character sets then the application should present abbreviated dialing numbers (ADNs) containing foreign language characters in their native format without modification.

A_SIMO–66 If the cellular forensic tool supports proper display of foreign language character sets then the application should present text messages containing foreign language characters in their native format without modification.
A_SIMO–70 If the cellular forensic tool supports hashing for the overall case file then the tool shall present the user with one hash value representative of the entire case data.

3.1 EMS Messages

EMS messages (i.e., messages over 160 characters) present on the internal memory of the Motorola RAZR V3 were not acquired or reported in either the GUI or generated report.

3.2 Abbreviated Dialing Numbers

Maximum Length ADNs (16 characters) or ADNs containing special characters (i.e., '@') present on both the T-Mobile and AT&T SIM were not acquired or reported in either the GUI or generated report.

3.3 Stand-alone Acquisition

When selecting "Acquire Logical Data" for the internal memory of the mobile device, text messages present on the SIM whose status is Unread is modified to Read after completing the logical data acquisition for the internal memory of the device. Note: "Acquire SIM Image" is not selected.

4 Testing Environment

The tests were run in the NIST CFTT lab. This section describes the test computers available for testing.

4.1 Test Computers

One test computers was used.

Morrisy has the following configuration:

Intel® D975XBX2 Motherboard
BIOS Version BX97520J.86A.2674.2007.0315.1546
Intel® Core™2 Duo CPU 6700 @ 2.66Ghz
3.25 GB RAM
1.44 MB floppy drive
LITE-ON CD H LH52N1P
LITE-ON DVDRW LH–20A1P
2 slots for removable SATA hard disk drive
8 USB 2.0 slots
2 IEEE 1394 ports
3 IEEE 1394 ports (mini)

5 Test Results

The main item of interest for interpreting the test results is determining the conformance of the device with the test assertions. Conformance with each assertion tested by a given test case is evaluated by examining **Log File Highlights** box of the test report summary.

5.1 Test Results Report Key

A summary of the actual test results is presented in this report. The following table presents a description of each section of the test report summary.

Table 5 Test Results Report Key

Heading	Description
First Line:	Test case ID, name, and version of tool tested.
Case Summary:	Test case summary from *GSM Mobile Device and Associated Media Tool Specification and Test Plan Version 1.1*.
Assertions:	The test assertions applicable to the test case, selected from *GSM Mobile Device and Associated Media Tool Specification and Test Plan Version 1.1*.
Tester Name:	Name or initials of person executing test procedure.
Test Host:	Host computer executing the test.
Test Date:	Time and date that test was started.
Device:	Source mobile device, media (i.e., SIM).
Source Setup:	Outline of data object types populated on the device or associated media (i.e., SIM).
Log Highlights:	Information extracted from various log files to illustrate conformance or nonconformance to the test assertions.
Results	Expected and actual results for each assertion tested.
Analysis	Whether or not the expected results were achieved.

5.2 Test Details

5.2.1 CFT-IM-01 (Nokia 6101)

Test Case CFT-IM-01 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IM-01 Acquire mobile device internal memory over supported interfaces (e.g., cable, Bluetooth, IrDA).
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 14:06:24 EDT 2008
Device:	Nokia_6101
Source Setup:	OS: WIN XP Interface: RJ45

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video
	Video - Deleted

<table>
<tr><th colspan="2">Test Case CFT-IM-01 Guidance Software Neutrino Version 1.4.14</th></tr>
<tr><td></td><td></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Thu Apr 24 14:06:24 EDT 2008
Acquisition finished: Thu Apr 24 14:16:04 EDT 2008

Device connectivity was established via supported interface</td></tr>
<tr><td>Results:</td><td><table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_IM-01 Device connectivity via supported interfaces.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.2 CFT-IM-02 (Nokia 6101)

Test Case CFT-IM-02 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IM-02 Attempt internal memory acquisition of a non-supported mobile device.
Assertions:	A_IM-02 If a cellular forensic tool attempts to connect to a non-supported device then the tool shall have the ability to identify that the device is not supported.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 14:18:53 EDT 2008
Device:	non-supported mobile device
Source Setup:	OS: WIN XP Interface: USB

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video
	Video - Deleted

Log	Created By Neutrino Version 1.4.14

<table>
<tr><th colspan="2">Test Case CFT-IM-02 Guidance Software Neutrino Version 1.4.14</th></tr>
<tr><td>Highlights:</td><td>Acquisition started: Thu Apr 24 14:18:53 EDT 2008
Acquisition finished: Thu Apr 24 14:20:17 EDT 2008

Identification of non-supported devices was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_IM-02 Identification of non-supported devices.</td><td>as expected</td></tr>
</table>
</td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.3 CFT-IM-04 (Nokia 6101)

Test Case CFT-IM-04 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IM-04 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 14:32:41 EDT 2008
Device:	Nokia_6101
Source Setup:	OS: WIN XP Interface: RJ45

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video
	Video - Deleted

<table>
<tr><th colspan="2">Test Case CFT-IM-04 Guidance Software Neutrino Version 1.4.14</th></tr>
<tr><td></td><td></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Thu Apr 24 14:32:41 EDT 2008
Acquisition finished: Thu Apr 24 14:39:42 EDT 2008

Device connectivity was established via supported interface
Readability and completeness of acquired data was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_IM-01 Device connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_IM-04 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr>
</table>
</td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.4 CFT-IM-05 (Nokia 6101)

Test Case CFT-IM-05 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IM-05 Acquire mobile device internal memory and review reported subscriber and equipment related information (i.e., IMEI, MSISDN).
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report. A_IM-06 If a cellular forensic tool successfully completes acquisition of the target device then equipment related information shall be presented in a human-readable format without modification.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 14:40:15 EDT 2008
Device:	Nokia_6101
Source Setup:	OS: WIN XP Interface: RJ45

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio

Test Case CFT-IM-05 Guidance Software Neutrino Version 1.4.14

	Audio - Deleted
	Image
	Image - Deleted
	Video
	Video - Deleted

Log Highlights:

Created By Neutrino Version 1.4.14
Acquisition started: Thu Apr 24 14:40:15 EDT 2008
Acquisition finished: Thu Apr 24 15:06:01 EDT 2008

Device connectivity was established via supported interface
Readability and completeness of acquired data was successful

Results:

Assertion & Expected Result	**Actual Result**
A_IM-01 Device connectivity via supported interfaces.	as expected
A_IM-04 Readability and completeness of acquired data via supported reports.	as expected
A_IM-06 Acquisition of IMEI.	as expected

Analysis: Expected results achieved

5.2.5 CFT-IM-06 (Nokia 6101)

Test Case CFT-IM-06 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IM-06 Acquire mobile device internal memory and review reported PIM related data.
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report. A_IM-07 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries shall be presented in a human-readable format without modification. A_IM-08 If a cellular forensic tool successfully completes acquisition of the target device then all known maximum length address book entries shall be presented in a human-readable format without modification. A_IM-09 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing special characters shall be presented in a human-readable format without modification. A_IM-10 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing blank names shall be presented in a human-readable format without modification. A_IM-11 If a cellular forensic tool successfully completes acquisition of the target device then all known email addresses associated with address book entries shall be presented in a human-readable format without modification. A_IM-12 If a cellular forensic tool successfully completes acquisition of the target device then all known graphics associated with address book entries shall be presented in a human-readable format without modification. A_IM-13 If a cellular forensic tool successfully completes acquisition of the target device then all known datebook, calendar, note entries shall be presented in a human-readable format without modification. A_IM-14 If a cellular forensic tool successfully completes acquisition of the target device then all maximum length datebook, calendar, note entries shall be presented in a human readable format without modification.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 15:16:50 EDT 2008
Device:	Nokia_6101
Source Setup:	OS: WIN XP Interface: RJ45

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	

Test Case CFT-IM-06 Guidance Software Neutrino Version 1.4.14

	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video
	Video - Deleted

Log Highlights:

Created By Neutrino Version 1.4.14
Acquisition started: Thu Apr 24 15:16:50 EDT 2008
Acquisition finished: Thu Apr 24 15:24:16 EDT 2008

Device connectivity was established via supported interface
Readability and completeness of acquired data was successful
All address book entries were successfully acquired
ALL PIM related data was acquired

Notes:
Address book entries containing pictures were not linked directly to the corresponding name.

Acquisitions of notes are not supported by Neutrino.

Results:

Assertion & Expected Result	**Actual Result**
A_IM-01 Device connectivity via supported interfaces.	as expected
A_IM-04 Readability and completeness of acquired data via supported reports.	as expected
A_IM-07 Acquisition of address book entries.	as expected
A_IM-08 Acquisition of maximum length address book entries.	as expected
A_IM-09 Acquisition of address book entries containing special characters.	as expected
A_IM-10 Acquisition of address book entries containing a blank name entry.	as expected
A_IM-11 Acquisition of embedded email addresses within address book entries.	as expected
A_IM-12 Acquisition of embedded graphics within address book entries.	as expected
A_IM-13 Acquisition of PIM data (i.e., datebook/calendar, notes).	as expected
A_IM-14 Acquisition of maximum length PIM data.	as expected

Analysis: Expected results achieved

5.2.6 CFT-IM-07 (Nokia 6101)

Test Case CFT-IM-07 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IM-07 Acquire mobile device internal memory and review reported call logs.
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report. A_IM-15 If a cellular forensic tool successfully completes acquisition of the target device then all call logs (incoming/outgoing) shall be presented in a human-readable format without modification.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Fri Apr 25 08:59:51 EDT 2008
Device:	Nokia_6101
Source Setup:	OS: WIN XP Interface: RJ45

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image

Test Case CFT-IM-07 Guidance Software Neutrino Version 1.4.14

	Image - Deleted
	Video
	Video - Deleted

Log Highlights:

Created By Neutrino Version 1.4.14
Acquisition started: Fri Apr 25 08:59:51 EDT 2008
Acquisition finished: Fri Apr 25 09:32:00 EDT 2008

Device connectivity was established via supported interface
Readability and completeness of acquired data was successful
All Call Logs (incoming, outgoing) were acquired

Results:

Assertion & Expected Result	**Actual Result**
A_IM-01 Device connectivity via supported interfaces.	as expected
A_IM-04 Readability and completeness of acquired data via supported reports.	as expected
A_IM-15 Acquisition of call logs.	as expected

Analysis: Expected results achieved

5.2.7 CFT-IM-08 (Nokia 6101)

Test Case CFT-IM-08 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IM-08 Acquire mobile device internal memory and review reported text messages.
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report. A_IM-16 If a cellular forensic tool successfully completes acquisition of the target device then all text messages (i.e., SMS, EMS) messages shall be presented in a human-readable format without modification.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Fri Apr 25 09:33:26 EDT 2008
Device:	Nokia_6101
Source Setup:	OS: WIN XP Interface: RJ45

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image

<table>
<tr><td colspan="2">Test Case CFT-IM-08 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td></td><td>
<table>
<tr><td></td><td>Image - Deleted</td></tr>
<tr><td></td><td>Video</td></tr>
<tr><td></td><td>Video - Deleted</td></tr>
</table>
</td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Fri Apr 25 09:33:26 EDT 2008
Acquisition finished: Fri Apr 25 09:45:03 EDT 2008

Device connectivity was established via supported interface
Readability and completeness of acquired data was successful
ALL text messages (SMS, EMS) were acquired</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_IM-01 Device connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_IM-04 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr>
<tr><td>A_IM-16 Acquisition of text messages.</td><td>as expected</td></tr>
</table>
</td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.8 CFT-IM-10 (Nokia 6101)

Test Case CFT-IM-10 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IM-10 Acquire mobile device internal memory and review reported stand-alone multi-media data (i.e., audio, graphics, video).
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report. A_IM-20 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone audio files shall be playable via either an internal application or suggested third-party application without modification. A_IM-21 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone image files shall be viewable via either an internal application or suggested third-party application without modification. A_IM-22 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone video files shall be viewable via either an internal application or suggested third-party application without modification.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Fri Apr 25 10:21:00 EDT 2008
Device:	Nokia_6101
Source Setup:	OS: WIN XP Interface: RJ45

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio

Test Case CFT-IM-10 Guidance Software Neutrino Version 1.4.14

	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video
	Video - Deleted

Log Highlights:

```
Created By Neutrino Version 1.4.14
Acquisition started: Fri Apr 25 10:21:00 EDT 2008
Acquisition finished: Fri Apr 25 10:27:16 EDT 2008

Device connectivity was established via supported interface
Readability and completeness of acquired data was successful
ALL stand-alone data files (Audio, Image, Video) were acquired
```

Results:

Assertion & Expected Result	**Actual Result**
A_IM-01 Device connectivity via supported interfaces.	as expected
A_IM-04 Readability and completeness of acquired data via supported reports.	as expected
A_IM-20 Acquisition of stand-alone audio files.	as expected
A_IM-21 Acquisition of stand-alone graphic files.	as expected
A_IM-22 Acquisition of stand-alone video files.	as expected

Analysis: Expected results achieved

5.2.9 CFT-IMO-01 (Nokia 6101)

Test Case CFT-IMO-01 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IMO-01 Acquire mobile device internal memory and review reported data via supported generated report formats.
Assertions:	A_IMO-38 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Fri Apr 25 10:40:30 EDT 2008
Device:	Nokia_6101
Source Setup:	OS: WIN XP Interface: RJ45

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video
	Video - Deleted

Log	Created By Neutrino Version 1.4.14

<table>
<tr><th colspan="2">Test Case CFT-IMO-01 Guidance Software Neutrino Version 1.4.14</th></tr>
<tr><td>Highlights:</td><td>Acquisition started: Fri Apr 25 10:40:30 EDT 2008
Acquisition finished: Fri Apr 25 10:46:06 EDT 2008

Complete representation of known data via generated reports was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_IMO-38 Comparison of known device data elements via generated reports.</td><td>as expected</td></tr>
</table>
</td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.10 CFT-IMO-02 (Nokia 6101)

Test Case CFT-IMO-02 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IMO-02 Acquire mobile device internal memory and review reported data via the preview-pane.
Assertions:	A_IMO-39 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Fri Apr 25 11:32:06 EDT 2008
Device:	Nokia_6101
Source Setup:	OS: WIN XP Interface: RJ45

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video
	Video - Deleted

Log	Created By Neutrino Version 1.4.14

<table>
<tr><th colspan="2">Test Case CFT-IMO-02 Guidance Software Neutrino Version 1.4.14</th></tr>
<tr><td>Highlights:</td><td>Acquisition started: Fri Apr 25 11:32:06 EDT 2008
Acquisition finished: Fri Apr 25 11:41:00 EDT 2008

Complete representation of known data via preview-pane was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_IMO-39 Comparison of known device data elements via preview-pane.</td><td>as expected</td></tr>
</table>
</td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.11 CFT-IMO-03 (Nokia 6101)

Test Case CFT-IMO-03 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IMO-03 Acquire mobile device internal memory and compare reported data via the preview-pane and supported generated reports.
Assertions:	A_IMO-38 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats. A_IMO-39 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view. A_IMO-40 If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Fri Apr 25 11:41:25 EDT 2008
Device:	Nokia_6101
Source Setup:	OS: WIN XP Interface: RJ45

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video

<table>
<tr><td colspan="2">Test Case CFT-IMO-03 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td></td><td><table><tr><td></td><td>Video - Deleted</td></tr></table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Fri Apr 25 11:41:25 EDT 2008
Acquisition finished: Fri Apr 25 11:57:23 EDT 2008

Complete representation of known data via generated reports was successful

Complete representation of known data via preview-pane was successful

Consistency between generated reports and preview-pane was successful</td></tr>
<tr><td>Results:</td><td><table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>A_IMO-38 Comparison of known device data elements via generated reports.</td><td>as expected</td></tr><tr><td>A_IMO-39 Comparison of known device data elements via preview-pane.</td><td>as expected</td></tr><tr><td>A_IMO-40 Compare generated reports and preview-pane views for device acquisition.</td><td>as expected</td></tr></table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.12 CFT-IMO-04 (Nokia 6101)

Test Case CFT-IMO-04 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IMO-04 After a successful mobile device internal memory acquisition, alter the case file via third party means and attempt to re-open the case.
Assertions:	A_IMO-41 If modification is attempted to the case file or individual data elements via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Fri Apr 25 11:59:36 EDT 2008
Device:	Nokia_6101
Source Setup:	OS: WIN XP Interface: RJ45

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video
	Video - Deleted

Log	Created By Neutrino Version 1.4.14

<table>
<tr><th colspan="2">Test Case CFT-IMO-04 Guidance Software Neutrino Version 1.4.14</th></tr>
<tr><td>Highlights:</td><td>Acquisition started: Fri Apr 25 11:59:36 EDT 2008
Acquisition finished: Fri Apr 25 12:05:17 EDT 2008

Notification of modified case data was successful

<u>Notes</u>:
EnCase reports the following error when attempting to modify a case file:
Error in <filename>: Invalid data checksum</td></tr>
<tr><td>Results:</td><td><table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>A_IMO-41 Notification of modified device case data.</td><td>as expected</td></tr></table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.13 CFT-IMO-10 (Nokia 6101)

Test Case CFT-IMO-10 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IMO-10 Perform a stand-alone mobile device internal memory acquisition and review the status flags for text messages present on the SIM.
Assertions:	A_IMO-38 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats. A_IMO-39 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view. A_IMO-55 If the cellular forensic tool supports stand-alone acquisition of internal memory with the SIM present, then the contents of the SIM shall not be modified during internal memory acquisition.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Fri Apr 25 12:16:58 EDT 2008
Device:	Nokia_6101
Source Setup:	OS: WIN XP Interface: RJ45

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video

<table>
<tr><td colspan="2">Test Case CFT-IMO-10 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td></td><td><table><tr><td></td><td>Video - Deleted</td></tr></table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Fri Apr 25 12:16:58 EDT 2008
Acquisition finished: Fri Apr 25 12:23:19 EDT 2008

Complete representation of known data via generated reports was not successful
Complete representation of known data via preview-pane was not successful
Stand-alone acquisition without disrupting SIM data was not successful

<u>Notes</u>:
When selecting "Acquire Logical Data" only, text messages present on the SIM whose status is “Unread” is modified to "Read" after the internal memory device logical Acquisition.

"Acquire SIM Image" is NOT selected.</td></tr>
<tr><td>Results:</td><td><table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>A_IMO-38 Comparison of known device data elements via generated reports.</td><td>Partial</td></tr><tr><td>A_IMO-39 Comparison of known device data elements via preview-pane.</td><td>Partial</td></tr><tr><td>A_IMO-55 Stand-along acquisition without disrupting SIM data.</td><td>Not as expected</td></tr></table></td></tr>
<tr><td>Analysis:</td><td>Expected results not achieved</td></tr>
</table>

5.2.14 CFT-IMO-11 (Nokia 6101)

Test Case CFT-IMO-11 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IMO-11 Acquire mobile device internal memory and review hash values for vendor supported data objects.
Assertions:	A_IMO-38 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats. A_IMO-39 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view. A_IMO-56 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Fri Apr 25 12:24:07 EDT 2008
Device:	Nokia_6101
Source Setup:	OS: WIN XP Interface: RJ45

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video

Test Case CFT-IMO-11 Guidance Software Neutrino Version 1.4.14	
	Video - Deleted
Log Highlights:	Created By Neutrino Version 1.4.14 Acquisition started: Fri Apr 25 12:24:07 EDT 2008 Acquisition finished: Fri Apr 25 12:30:36 EDT 2008 Complete representation of known data via generated reports was successful Complete representation of known data via preview-pane was successful Device hash reporting for individual acquired data elements was successful **Notes:** Contacts, Text Messages (SMS, EMS) Call Logs, Calendar entries and File System data objects hash values are reported via the GUI.
Results:	
Analysis:	Expected results achieved

Assertion & Expected Result	Actual Result
A_IMO-38 Comparison of known device data elements via generated reports.	as expected
A_IMO-39 Comparison of known device data elements via preview-pane.	as expected
A_IMO-56 Device hash reporting for individual acquired data objects.	as expected

5.2.15 CFT-SIM-01 (T-Mobile SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIM-01 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIM-01 Acquire SIM over supported interfaces (e.g., PC/SC reader, proprietary reader).</td></tr>
<tr><td>Assertions:</td><td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Mon Apr 21 13:26:49 EDT 2008</td></tr>
<tr><td>Device:</td><td>TMOBILE_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Mon Apr 21 13:26:49 EDT 2008
Acquisition finished: Mon Apr 21 13:27:22 EDT 2008

Media connectivity was established via supported interface</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIM-23 SIM connectivity via supported interfaces.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.16 CFT-SIM-02 (T-Mobile SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIM-02 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIM-02 Attempt acquisition of a non-supported SIM.</td></tr>
<tr><td>Assertions:</td><td>A_SIM-24 If a cellular forensic tool attempts to connect to a non-supported SIM then the tool shall have the ability to identify that the SIM is not supported.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Mon Apr 21 13:29:19 EDT 2008</td></tr>
<tr><td>Device:</td><td>TMOBILE_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Mon Apr 21 13:29:19 EDT 2008

Identification of non-supported media was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIM-24 Identification of non-supported SIMs.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.17 CFT-SIM-03 (T-Mobile SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIM-03 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIM-03 Begin SIM acquisition and interrupt connectivity by interface disengagement.</td></tr>
<tr><td>Assertions:</td><td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
A_SIM-25 If a cellular forensic tool encounters disengagement between the SIM reader and application then the application shall notify the user that connectivity has been disrupted.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Mon Apr 21 13:31:10 EDT 2008</td></tr>
<tr><td>Device:</td><td>TMOBILE_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Mon Apr 21 13:31:10 EDT 2008
Acquisition finished: Mon Apr 21 13:33:12 EDT 2008

Media connectivity was established via supported interface
Media acquisition disruption notification was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIM-23 SIM connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_SIM-25 Notification of SIM acquisition disruption.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.18 CFT-SIM-04 (T-Mobile SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIM-04 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIM-04 Attempt acquisition on a password-protected SIM.</td></tr>
<tr><td>Assertions:</td><td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
A_SIM-26 If the SIM is password-protected then the cellular forensic tool shall provide the examiner with the opportunity to input the PIN before acquisition.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Mon Apr 21 13:34:27 EDT 2008</td></tr>
<tr><td>Device:</td><td>TMOBILE_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Mon Apr 21 13:34:27 EDT 2008
Acquisition finished: Mon Apr 21 13:38:48 EDT 2008

Media connectivity was established via supported interface
Ability to enter PIN on protected media before acquisition was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIM-23 SIM connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_SIM-26 Password entry before acquisition for protected SIMs.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.19 CFT-SIM-05 (T-Mobile SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIM-05 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIM-05 Acquire SIM internal memory and review reported data via the preview-pane or generated reports for readability.</td></tr>
<tr><td>Assertions:</td><td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
A_SIM-27 If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Mon Apr 21 13:50:02 EDT 2008</td></tr>
<tr><td>Device:</td><td>TMOBILE_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Mon Apr 21 13:50:02 EDT 2008
Acquisition finished: Mon Apr 21 14:10:50 EDT 2008

Media connectivity was established via supported interface
Readability and completeness of acquired data was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIM-23 SIM connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_SIM-27 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.20 CFT-SIM-06 (T-Mobile SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIM-06 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIM-06 Acquire SIM internal memory and review reported subscriber and equipment related information (i.e., SPN, ICCID, IMSI, MSISDN).</td></tr>
<tr><td>Assertions:</td><td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
A_SIM-27 If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.
A_SIM-29 If a cellular forensic tool successfully completes acquisition of the target SIM then the ICCID shall be presented in a human-readable format without modification.
A_SIM-30 If a cellular forensic tool successfully completes acquisition of the target SIM then the IMSI shall be presented in a human-readable format without modification.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Mon Apr 21 14:25:32 EDT 2008</td></tr>
<tr><td>Device:</td><td>TMOBILE_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Mon Apr 21 14:25:32 EDT 2008
Acquisition finished: Mon Apr 21 14:28:36 EDT 2008

Media connectivity was established via supported interface
Readability and completeness of acquired data was successful
ICCID was acquired
IMSI was acquired

<u>Notes</u>:
The following fields: ICCID and IMSI were present in the generated report, but not found within the Graphical User Interface.</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIM-23 SIM connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_SIM-27 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr>
<tr><td>A_SIM-29 Acquisition of ICCID.</td><td>as expected</td></tr>
<tr><td>A_SIM-30 Acquisition of IMSI.</td><td>as expected</td></tr>
</table></td></tr>
</table>

Test Case CFT-SIM-06 Guidance Software Neutrino Version 1.4.14	
Analysis:	Expected results achieved

5.2.21 CFT-SIM-07 (T-Mobile SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIM-07 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIM-07 Acquire SIM internal memory and review reported Abbreviated Dialing Numbers (ADN).</td></tr>
<tr><td>Assertions:</td><td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
A_SIM-27 If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.
A_SIM-32 If a cellular forensic tool successfully completes acquisition of the target SIM then all Abbreviated Dialing Numbers (ADN) shall be presented in a human-readable format without modification.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Mon Apr 21 14:34:45 EDT 2008</td></tr>
<tr><td>Device:</td><td>TMOBILE_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Mon Apr 21 14:34:45 EDT 2008
Acquisition finished: Mon Apr 21 14:43:58 EDT 2008

Media connectivity was established via supported interface
Readability and completeness of acquired data was successful
Regular length ADNs were acquired
Maximum Length ADNs were not acquired
Special Character ADNs were not acquired
Blank Name ADNs were acquired

<u>Notes</u>:
Maximum length ADNs (16 characters) were not acquired or reported in either the GUI or generated report.

Special character names (i.e., '@') were not displayed.</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIM-23 SIM connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_SIM-27 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr>
<tr><td>A_SIM-32 Acquisition of ADNs.</td><td>Partial</td></tr>
</table></td></tr>
</table>

Test Case CFT-SIM-07 Guidance Software Neutrino Version 1.4.14	
Analysis:	Partial results achieved

5.2.22 CFT-SIM-08 (T-Mobile SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIM-08 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIM-08 Acquire SIM internal memory and review reported Last Numbers Dialed (LND).</td></tr>
<tr><td>Assertions:</td><td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
A_SIM-27 If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.
A_SIM-33 If a cellular forensic tool successfully completes acquisition of the target SIM then all Last Numbers Dialed (LND) shall be presented in a human-readable format without modification.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Mon Apr 21 14:52:24 EDT 2008</td></tr>
<tr><td>Device:</td><td>TMOBILE_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Mon Apr 21 14:52:24 EDT 2008
Acquisition finished: Mon Apr 21 15:02:51 EDT 2008

Media connectivity was established via supported interface
Readability and completeness of acquired data was successful
LNDs were acquired</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIM-23 SIM connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_SIM-27 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr>
<tr><td>A_SIM-33 Acquisition of LNDs.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.23 CFT-SIM-09 (T-Mobile SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIM-09 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIM-09 Acquire SIM internal memory and review reported text messages (i.e., SMS, EMS).</td></tr>
<tr><td>Assertions:</td><td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
A_SIM-27 If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.
A_SIM-34 If a cellular forensic tool successfully completes Acquisition of the target SIM then all SMS text messages shall be presented in a human-readable format without modification.
A_SIM-35 If a cellular forensic tool successfully completes Acquisition of the target SIM then all EMS text messages shall be presented in a human-readable format without modification.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Tue Apr 22 09:59:38 EDT 2008</td></tr>
<tr><td>Device:</td><td>TMOBILE_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Tue Apr 22 09:59:38 EDT 2008
Acquisition finished: Tue Apr 22 10:12:46 EDT 2008

Media connectivity was established via supported interface
Readability and completeness of acquired data was successful
ALL text messages (SMS, EMS) were acquired

<u>Notes</u>:
Status flags for text messages are only displayed for deleted text messages.
Read and unread status for text messages are not presented within the GUI or generated report.</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIM-23 SIM connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_SIM-27 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr>
<tr><td>A_SIM-34 Acquisition of SMS messages.</td><td>as expected</td></tr>
<tr><td>A_SIM-35 Acquisition of EMS messages.</td><td>as expected</td></tr>
</table></td></tr>
</table>

Test Case CFT-SIM-09 Guidance Software Neutrino Version 1.4.14	
Analysis:	Expected results achieved

5.2.24 CFT-SIMO-01 (T-Mobile SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIMO-01 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIMO-01 Acquire SIM internal memory and review acquired data via suported generated report formats.</td></tr>
<tr><td>Assertions:</td><td>A_SIMO-58 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Tue Apr 22 10:42:47 EDT 2008</td></tr>
<tr><td>Device:</td><td>TMOBILE_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Tue Apr 22 10:42:47 EDT 2008
Acquisition finished: Tue Apr 22 10:54:51 EDT 2008

Complete representation of known data via generated reports was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIMO-58 Comparison of known SIM data elements via generated reports.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.25 CFT-SIMO-02 (T-Mobile SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIMO-02 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIMO-02 Acquire SIM internal memory and review acquired data via the preview-pane.</td></tr>
<tr><td>Assertions:</td><td>A_SIMO-59 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Tue Apr 22 10:59:49 EDT 2008</td></tr>
<tr><td>Device:</td><td>TMOBILE_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Tue Apr 22 10:59:49 EDT 2008
Acquisition finished: Tue Apr 22 11:12:04 EDT 2008

Complete representation of known data via preview-pane was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIMO-59 Comparison of known SIM data elements via preview-pane.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.26 CFT-SIMO-03 (T-Mobile SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIMO-03 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIMO-03 Acquire SIM internal memory and compare acquired data via the preview-pane and supported generated reports.</td></tr>
<tr><td>Assertions:</td><td>A_SIMO-58 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
A_SIMO-59 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
A_SIMO-60 If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Tue Apr 22 12:25:57 EDT 2008</td></tr>
<tr><td>Device:</td><td>TMOBILE_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Tue Apr 22 12:25:57 EDT 2008
Acquisition finished: Tue Apr 22 12:38:54 EDT 2008

Complete representation of known data via generated reports was successful
Complete representation of known data via preview-pane was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIMO-58 Comparison of known SIM data elements via generated reports.</td><td>as expected</td></tr>
<tr><td>A_SIMO-59 Comparison of known SIM data elements via preview-pane.</td><td>as expected</td></tr>
<tr><td>A_SIMO-60 Compare generated reports and preview-pane views for SIM acquisition.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.27 CFT-SIMO-04 (T-Mobile SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIMO-04 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIMO-04 After a successful SIM internal memory Acquisition, aflter the case file via third party means and attempt to re-open the case.</td></tr>
<tr><td>Assertions:</td><td>A_SIMO-61 If modification is attempted to the case file or individual data elements via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Tue Apr 22 12:43:20 EDT 2008</td></tr>
<tr><td>Device:</td><td>TMOBILE_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Tue Apr 22 12:43:20 EDT 2008
Acquisition finished: Tue Apr 22 12:51:24 EDT 2008
Notification of modified case data was successful

<u>Notes</u>:
EnCase reports the following error when attempting to modify a case file:
Error in <filename>: Invalid data checksum</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIMO-61 Notification of modifed SIM case data.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.28 CFT-SIMO-05 (T-Mobile SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIMO-05 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIMO-05 Acquire SIM internal memory and review reports for recoverable deleted data.</td></tr>
<tr><td>Assertions:</td><td>A_SIMO-58 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
A_SIMO-59 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
A_SIMO-62 If the cellular forensic tool successfully completes acquisition of the target SIM and recoverable deleted SMS messages exist then the tool shall present recoverable deleted data in a human-readable format without modification.
A_SIMO-63 If the cellular forensic tool successfully completes acquisition of the target SIM and recoverable deleted EMS messages exist then the tool shall present recoverable deleted data in a human-readable format without modification.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Tue Apr 22 12:57:39 EDT 2008</td></tr>
<tr><td>Device:</td><td>TMOBILE_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Tue Apr 22 12:57:39 EDT 2008
Acquisition finished: Tue Apr 22 13:10:23 EDT 2008

Complete representation of known data via generated reports was successful
Complete representation of known data via preview-pane was successful
Deleted SMS data was recovered
Deleted EMS data was recovered</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIMO-58 Comparison of known SIM data elements via generated reports.</td><td>as expected</td></tr>
<tr><td>A_SIMO-59 Comparison of known SIM data elements via preview-pane.</td><td>as expected</td></tr>
<tr><td>A_SIMO-62 Recovery of deleted SMS messages.</td><td>as expected</td></tr>
<tr><td>A_SIMO-63 Recovery of deleted EMS messages.</td><td>as expected</td></tr>
</table></td></tr>
</table>

Test Case CFT-SIMO-05 Guidance Software Neutrino Version 1.4.14	
Analysis:	Expected results achieved

5.2.29 CFT-SIMO-08 (T-Mobile SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIMO-08 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIMO-08 Begin acquisition on a PIN protected SIM to determine if the tool provides an accurate count of the remaining number of PIN attempts and if the PIN attempts are decremented when entering an incorrect value.</td></tr>
<tr><td>Assertions:</td><td>A_SIMO-67 If a cellular forensic tool provides the examiner with the remaining number of authentication attempts then the application should provide an accurate count of the remaining PIN attempts.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Tue Apr 22 14:12:28 EDT 2008</td></tr>
<tr><td>Device:</td><td>TMOBILE_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Tue Apr 22 14:12:28 EDT 2008
Acquisition finished: Tue Apr 22 14:25:40 EDT 2008

Remaining number of PIN attempts properly displayed was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIMO-67 Display of remaining number of PIN attempts.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.30 CFT-SIMO-09 (T-Mobile SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIMO-09 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIMO-09 Begin acquisition on a SIM whose PIN attempts have been exhausted to determine if the tool provides an accurate count of the remaining number of PUK attempts and if the PUK attempts are decremented when entering an incorrect value.</td></tr>
<tr><td>Assertions:</td><td>A_SIMO-68 If a cellular forensic tool provides the examiner with the remaining number of PUK attempts then the application should provide an accurate count of the remaining PUK attempts.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Tue Apr 22 14:26:19 EDT 2008</td></tr>
<tr><td>Device:</td><td>TMOBILE_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Tue Apr 22 14:26:19 EDT 2008
Acquisition finished: Tue Apr 22 14:35:58 EDT 2008

Remaining number of PUK attempts properly displayed was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIMO-68 Display of remaining number of PUK attempts.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.31 CFT-SIMO-10 (T-Mobile SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIMO-10 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIMO-10 Acquire SIM internal memory and review hash values for vendor supported data objects.</td></tr>
<tr><td>Assertions:</td><td>A_SIMO-58 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
A_SIMO-59 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
A_SIMO-69 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Tue Apr 22 14:36:58 EDT 2008</td></tr>
<tr><td>Device:</td><td>TMOBILE_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Tue Apr 22 14:36:58 EDT 2008
Acquisition finished: Tue Apr 22 14:45:47 EDT 2008

Complete representation of known data via generated reports was successful
Complete representation of known data via preview-pane was successful
Device hash reporting for individual acquired data elements was successful

<u>Notes</u>:
Contacts (ADNs), Test Messages (SMS, EMS) and Call Logs (LND) hash values are reported via the GUI.</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIMO-58 Comparison of known SIM data elements via generated reports.</td><td>as expected</td></tr>
<tr><td>A_SIMO-59 Comparison of known SIM data elements via preview-pane.</td><td>as expected</td></tr>
<tr><td>A_SIMO-69 SIM hash reporting for individual acquired data objects.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.32 CFT-IM-01 (Motorola RAZR V3)

Test Case CFT-IM-01 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IM-01 Acquire mobile device internal memory over supported interfaces (e.g., cable, Bluetooth, IrDA).
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 07:12:04 EDT 2008
Device:	Motorola_RAZR_V3
Source Setup:	OS: WIN XP Interface: USB

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video
	Video - Deleted

Log Highlights:	Created By Neutrino Version 1.4.14 Acquisition started: Thu Apr 24 07:12:04 EDT 2008 Acquisition finished: Thu Apr 24 07:14:47 EDT 2008

<table>
<tr><th colspan="2">Test Case CFT-IM-01 Guidance Software Neutrino Version 1.4.14</th></tr>
<tr><td></td><td>Device connectivity was established via supported interface</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_IM-01 Device connectivity via supported interfaces.</td><td>as expected</td></tr>
</table>
</td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.33 CFT-IM-02 (Motorola RAZR V3)

Test Case CFT-IM-02 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IM-02 Attempt internal memory acquisition of a non-supported mobile device.
Assertions:	A_IM-02 If a cellular forensic tool attempts to connect to a non-supported device then the tool shall have the ability to identify that the device is not supported.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 08:09:41 EDT 2008
Device:	non-supported mobile device
Source Setup:	OS: WIN XP Interface: USB

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video
	Video - Deleted

Log	Created By Neutrino Version 1.4.14

<table>
<tr><th colspan="2">Test Case CFT-IM-02 Guidance Software Neutrino Version 1.4.14</th></tr>
<tr><td>Highlights:</td><td>Acquisition started: Thu Apr 24 08:09:41 EDT 2008
Acquisition finished: Thu Apr 24 08:11:03 EDT 2008

Identification of non-supported devices was successful</td></tr>
<tr><td>Results:</td><td><table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_IM-02 Identification of non-supported devices.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.34 CFT-IM-04 (Motorola RAZR V3)

Test Case CFT-IM-04 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IM-04 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 08:20:06 EDT 2008
Device:	Motorola_RAZR_V3
Source Setup:	OS: WIN XP Interface: USB

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video
	Video - Deleted

<table>
<tr><th colspan="2">Test Case CFT-IM-04 Guidance Software Neutrino Version 1.4.14</th></tr>
<tr><td></td><td></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Thu Apr 24 08:20:06 EDT 2008
Acquisition finished: Thu Apr 24 08:21:13 EDT 2008

Device connectivity was established via supported interface
Readability and completeness of acquired data was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_IM-01 Device connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_IM-04 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr>
</table>
</td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.35 CFT-IM-05 (Motorola RAZR V3)

Test Case CFT-IM-05 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IM-05 Acquire mobile device internal memory and review reported subscriber and equipment related information (i.e., IMEI, MSISDN).
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report. A_IM-06 If a cellular forensic tool successfully completes acquisition of the target device then equipment related information shall be presented in a human-readable format without modification.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 08:21:56 EDT 2008
Device:	Motorola_RAZR_V3
Source Setup:	OS: WIN XP Interface: USB

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image

Test Case CFT-IM-05 Guidance Software Neutrino Version 1.4.14

	Image - Deleted
	Video
	Video - Deleted

Log Highlights:

```
Created By Neutrino Version 1.4.14
Acquisition started: Thu Apr 24 08:21:56 EDT 2008
Acquisition finished: Thu Apr 24 08:24:49 EDT 2008

Device connectivity was established via supported interface
Readability and completeness of acquired data was successful
```

Results:

Assertion & Expected Result	**Actual Result**
A_IM-01 Device connectivity via supported interfaces.	as expected
A_IM-04 Readability and completeness of acquired data via supported reports.	as expected
A_IM-06 Acquisition of IMEI.	as expected

Analysis: Expected results achieved

5.2.36 CFT-IM-06 (Motorola RAZR V3)

<table>
<tr><td colspan="2">Test Case CFT-IM-06 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-IM-06 Acquire mobile device internal memory and review reported PIM related data.</td></tr>
<tr><td>Assertions:</td><td>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.
A_IM-07 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries shall be presented in a human-readable format without modification.
A_IM-08 If a cellular forensic tool successfully completes acquisition of the target device then all known maximum length address book entries shall be presented in a human-readable format without modification.
A_IM-09 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing special characters shall be presented in a human-readable format without modification.
A_IM-10 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing blank names shall be presented in a human-readable format without modification.
A_IM-11 If a cellular forensic tool successfully completes acquisition of the target device then all known email addresses associated with address book entries shall be presented in a human-readable format without modification.
A_IM-12 If a cellular forensic tool successfully completes acquisition of the target device then all known graphics associated with address book entries shall be presented in a human-readable format without modification.
A_IM-13 If a cellular forensic tool successfully completes acquisition of the target device then all known datebook, calendar, note entries shall be presented in a human-readable format without modification.
A_IM-14 If a cellular forensic tool successfully completes acquisition of the target device then all maximum length datebook, calendar, note entries shall be presented in a human readable format without modification.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Thu Apr 24 08:25:43 EDT 2008</td></tr>
<tr><td>Device:</td><td>Motorola_RAZR_V3</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Address Book Entries</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Regular Length, email, picture</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length, Deleted email - deleted picture</td></tr>
<tr><td></td><td>Deleted Entry</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>PIM Data</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Regular Length</td></tr>
<tr><td></td><td>Deleted Entry</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Missed</td></tr>
<tr><td></td><td>Missed - Deleted</td></tr>
<tr><td></td><td>Incoming</td></tr>
<tr><td></td><td>Incoming - Deleted</td></tr>
<tr><td></td><td>Outgoing</td></tr>
<tr><td></td><td>Outgoing - Deleted</td></tr>
<tr><td>Text Messages</td><td></td></tr>
</table></td></tr>
</table>

Test Case CFT-IM-06 Guidance Software Neutrino Version 1.4.14

	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video
	Video - Deleted

Log Highlights:

Created By Neutrino Version 1.4.14
Acquisition started: Thu Apr 24 08:25:43 EDT 2008
Acquisition finished: Thu Apr 24 08:29:43 EDT 2008

Device connectivity was established via supported interface
Readability and completeness of acquired data was successful
All address book entries were successfully acquired
ALL PIM related data was acquired

Results:

Assertion & Expected Result	**Actual Result**
A_IM-01 Device connectivity via supported interfaces.	as expected
A_IM-04 Readability and completeness of acquired data via supported reports.	as expected
A_IM-07 Acquisition of address book entries.	as expected
A_IM-08 Acquisition of maximum length address book entries.	as expected
A_IM-09 Acquisition of address book entries containing special characters.	as expected
A_IM-10 Acquisition of address book entries containing a blank name entry.	as expected
A_IM-11 Acquisition of embedded email addresses within address book entries.	as expected
A_IM-12 Acquisition of embedded graphics within address book entries.	as expected
A_IM-13 Acquisition of PIM data (i.e., datebook/calendar, notes).	as expected
A_IM-14 Acquisition of maximum length PIM data.	as expected

Analysis: Expected results achieved

5.2.37 CFT-IM-07 (Motorola RAZR V3)

Test Case CFT-IM-07 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IM-07 Acquire mobile device internal memory and review reported call logs.
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report. A_IM-15 If a cellular forensic tool successfully completes acquisition of the target device then all call logs (incoming/outgoing) shall be presented in a human-readable format without modification.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 08:34:45 EDT 2008
Device:	Motorola_RAZR_V3
Source Setup:	OS: WIN XP Interface: USB

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image

<table>
<tr><td colspan="2">Test Case CFT-IM-07 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td></td><td>
<table>
<tr><td></td><td>Image - Deleted</td></tr>
<tr><td></td><td>Video</td></tr>
<tr><td></td><td>Video - Deleted</td></tr>
</table>
</td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Thu Apr 24 08:34:45 EDT 2008
Acquisition finished: Thu Apr 24 08:45:46 EDT 2008

Device connectivity was established via supported interface
Readability and completeness of acquired data was successful
All Call Logs (incoming, outgoing) were acquired</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_IM-01 Device connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_IM-04 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr>
<tr><td>A_IM-15 Acquisition of call logs.</td><td>as expected</td></tr>
</table>
</td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.38 CFT-IM-08 (Motorola RAZR V3)

Test Case CFT-IM-08 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IM-08 Acquire mobile device internal memory and review reported text messages.
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report. A_IM-16 If a cellular forensic tool successfully completes acquisition of the target device then all text messages (i.e., SMS, EMS) messages shall be presented in a human-readable format without modification.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 09:10:31 EDT 2008
Device:	Motorola_RAZR_V3
Source Setup:	OS: WIN XP Interface: USB

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image

<table>
<tr><td colspan="2">Test Case CFT-IM-08 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td></td><td>
<table>
<tr><td></td><td>Image - Deleted</td></tr>
<tr><td></td><td>Video</td></tr>
<tr><td></td><td>Video - Deleted</td></tr>
</table>
</td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Thu Apr 24 09:10:31 EDT 2008
Acquisition finished: Thu Apr 24 09:30:43 EDT 2008

Device connectivity was established via supported interface
Readability and completeness of acquired data was successful
Partial Text messages were acquired

<u>Notes</u>:
EMS messages (messages over 160 characters) are not acquired or reported either via the GUI or generated report.</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_IM-01 Device connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_IM-04 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr>
<tr><td>A_IM-16 Acquisition of text messages.</td><td>Partial</td></tr>
</table>
</td></tr>
<tr><td>Analysis:</td><td>Partial results achieved</td></tr>
</table>

5.2.39 CFT-IM-10 (Motorola RAZR V3)

Test Case CFT-IM-10 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IM-10 Acquire mobile device internal memory and review reported stand-alone multi-media data (i.e., audio, graphics, video).
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report. A_IM-20 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone audio files shall be playable via either an internal application or suggested third-party application without modification. A_IM-21 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone image files shall be viewable via either an internal application or suggested third-party application without modification. A_IM-22 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone video files shall be viewable via either an internal application or suggested third-party application without modification.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 10:35:06 EDT 2008
Device:	Motorola_RAZR_V3
Source Setup:	OS: WIN XP Interface: USB

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio

Test Case CFT-IM-10 Guidance Software Neutrino Version 1.4.14

	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video
	Video - Deleted

Log Highlights:

Created By Neutrino Version 1.4.14
Acquisition started: Thu Apr 24 10:35:06 EDT 2008
Acquisition finished: Thu Apr 24 10:35:20 EDT 2008

Device connectivity was established via supported interface
Readability and completeness of acquired data was successful
Audio files were not acquired
Image files were not acquired
Video files were not acquired

Notes:
Neutrino is not designed to acquire stand-alone files (i.e., audio, graphics, video) for the Motorola RAZR V3.

Results:

Assertion & Expected Result	**Actual Result**
A_IM-01 Device connectivity via supported interfaces.	as expected
A_IM-04 Readability and completeness of acquired data via supported reports.	as expected
A_IM-20 Acquisition of stand-alone audio files.	as expected
A_IM-21 Acquisition of stand-alone graphic files.	as expected
A_IM-22 Acquisition of stand-alone video files.	as expected

Analysis: Expected results achieved

5.2.40 CFT-IMO-01 (Motorola RAZR V3)

Test Case CFT-IMO-01 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IMO-01 Acquire mobile device internal memory and review reported data via supported generated report formats.
Assertions:	A_IMO-38 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 10:46:15 EDT 2008
Device:	Motorola_RAZR_V3
Source Setup:	OS: WIN XP Interface: USB

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video
	Video - Deleted

<table>
<tr><th colspan="2">Test Case CFT-IMO-01 Guidance Software Neutrino Version 1.4.14</th></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Thu Apr 24 10:46:15 EDT 2008
Acquisition finished: Thu Apr 24 10:49:02 EDT 2008

Complete representation of known data via generated reports was successful</td></tr>
<tr><td>Results:</td><td><table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_IMO-38 Comparison of known device data elements via generated reports.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.41 CFT-IMO-02 (Motorola RAZR V3)

Test Case CFT-IMO-02 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IMO-02 Acquire mobile device internal memory and review reported data via the preview-pane.
Assertions:	A_IMO-39 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 10:50:13 EDT 2008
Device:	Motorola_RAZR_V3
Source Setup:	OS: WIN XP Interface: USB

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video
	Video - Deleted

Log	Created By Neutrino Version 1.4.14

<table>
<tr><td colspan="2">Test Case CFT-IMO-02 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Highlights:</td><td>Acquisition started: Thu Apr 24 10:50:13 EDT 2008
Acquisition finished: Thu Apr 24 10:53:51 EDT 2008

Complete representation of known data via preview-pane was successful</td></tr>
<tr><td>Results:</td><td><table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_IMO-39 Comparison of known device data elements via preview-pane.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.42 CFT-IMO-03 (Motorola RAZR V3)

Test Case CFT-IMO-03 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IMO-03 Acquire mobile device internal memory and compare reported data via the preview-pane and supported generated reports.
Assertions:	A_IMO-38 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats. A_IMO-39 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view. A_IMO-40 If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 11:58:06 EDT 2008
Device:	Motorola_RAZR_V3
Source Setup:	OS: WIN XP Interface: USB

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video

<table>
<tr><td colspan="2">Test Case CFT-IMO-03 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td></td><td><table><tr><td></td><td>Video - Deleted</td></tr></table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Thu Apr 24 11:58:06 EDT 2008
Acquisition finished: Thu Apr 24 12:15:22 EDT 2008

Complete representation of known data via generated reports was successful
Complete representation of known data via preview-pane was successful
Consistency between generated reports and preview-pane was successful</td></tr>
<tr><td>Results:</td><td><table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>A_IMO-38 Comparison of known device data elements via generated reports.</td><td>as expected</td></tr><tr><td>A_IMO-39 Comparison of known device data elements via preview-pane.</td><td>as expected</td></tr><tr><td>A_IMO-40 Compare generated reports and preview-pane views for device acquisition.</td><td>as expected</td></tr></table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.43 CFT-IMO-04 (Motorola RAZR V3)

Test Case CFT-IMO-04 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IMO-04 After a successful mobile device internal memory acquisition, alter the case file via third party means and attempt to re-open the case.
Assertions:	A_IMO-41 If modification is attempted to the case file or individual data elements via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 12:52:40 EDT 2008
Device:	Motorola_RAZR_V3
Source Setup:	OS: WIN XP Interface: USB

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video
	Video - Deleted

Log	Created By Neutrino Version 1.4.14

<table>
<tr><th colspan="2">Test Case CFT-IMO-04 Guidance Software Neutrino Version 1.4.14</th></tr>
<tr><td>Highlights:</td><td>Acquisition started: Thu Apr 24 12:52:40 EDT 2008
Acquisition finished: Thu Apr 24 12:59:44 EDT 2008

Notification of modified case data was successful

<u>Notes</u>:
EnCase reports the following error when attempting to modify a case file:
Error in <filename>: Invalid data checksum</td></tr>
<tr><td>Results:</td><td><table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>A_IMO-41 Notification of modified device case data.</td><td>as expected</td></tr></table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.44 CFT-IMO-10 (Motorola RAZR V3)

Test Case CFT-IMO-10 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IMO-10 Perform a stand-alone mobile device internal memory acquisition and review the status flags for text messages present on the SIM.
Assertions:	A_IMO-38 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats. A_IMO-39 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view. A_IMO-55 If the cellular forensic tool supports stand-alone acquisition of internal memory with the SIM present, then the contents of the SIM shall not be modified during internal memory acquisition.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 13:39:19 EDT 2008
Device:	Motorola_RAZR_V3
Source Setup:	OS: WIN XP Interface: USB

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video

Test Case CFT-IMO-10 Guidance Software Neutrino Version 1.4.14

	Video - Deleted

Log Highlights:

Created By Neutrino Version 1.4.14
Acquisition started: Thu Apr 24 13:39:19 EDT 2008
Acquisition finished: Thu Apr 24 13:40:54 EDT 2008

Complete representation of known data via generated reports was not successful
Complete representation of known data via preview-pane was not successful
Stand-alone acquisition without disrupting SIM data was not successful

Notes:
When selecting "Acquire Logical Data" only, text messages present on the SIM whose status is Unread is modified to "Read" after the internal memory device logical Acquisition.

"Acquire SIM Image" is NOT selected.

Results:

Assertion & Expected Result	**Actual Result**
A_IMO-38 Comparison of known device data elements via generated reports.	Partial
A_IMO-39 Comparison of known device data elements via preview-pane.	Partial
A_IMO-55 Stand-along acquisition without disrupting SIM data.	Not as expected

Analysis: Expected results not achieved

5.2.45 CFT-IMO-11 (Motorola RAZR V3)

Test Case CFT-IMO-11 Guidance Software Neutrino Version 1.4.14	
Case Summary:	CFT-IMO-11 Acquire mobile device internal memory and review hash values for vendor supported data objects.
Assertions:	A_IMO-38 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats. A_IMO-39 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view. A_IMO-56 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Thu Apr 24 13:44:40 EDT 2008
Device:	Motorola_RAZR_V3
Source Setup:	OS: WIN XP Interface: USB

DATA OBJECTS	**DATA ELEMENTS**
Address Book Entries	
	Maximum Length
	Regular Length, email, picture
	Special Character
	Blank Name
	Regular Length, Deleted email - deleted picture
	Deleted Entry
	Foreign Entry
PIM Data	
	Maximum Length
	Regular Length
	Deleted Entry
	Special Character
Call Logs	
	Missed
	Missed - Deleted
	Incoming
	Incoming - Deleted
	Outgoing
	Outgoing - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Incoming SMS - Deleted
	Outgoing SMS
	Outgoing SMS - Deleted
	Incoming EMS - Read
	Incoming EMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted
	Outgoing EMS
	Outgoing EMS - Deleted
MMS Messages	
	Incoming Audio
	Incoming Image
	Incoming Video
	Outgoing Audio
	Outgoing Image
	Outgoing Video
Stand-alone data files	
	Audio
	Audio - Deleted
	Image
	Image - Deleted
	Video

<table>
<tr><td colspan="2">Test Case CFT-IMO-11 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td></td><td><table><tr><td></td><td>Video - Deleted</td></tr></table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Thu Apr 24 13:44:40 EDT 2008
Acquisition finished: Thu Apr 24 13:46:14 EDT 2008

Complete representation of known data via generated reports was successful
Complete representation of known data via preview-pane was successful
Device hash reporting for individual acquired data elements was successful

<u>Notes</u>:
Contacts, Text Messages (SMS, EMS) and Call Logs hash values are reported via the GUI.</td></tr>
<tr><td>Results:</td><td><table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>A_IMO-38 Comparison of known device data elements via generated reports.</td><td>as expected</td></tr><tr><td>A_IMO-39 Comparison of known device data elements via preview-pane.</td><td>as expected</td></tr><tr><td>A_IMO-56 Device hash reporting for individual acquired data objects.</td><td>as expected</td></tr></table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.46 CFT-SIM-01 (AT&T SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIM-01 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIM-01 Acquire SIM over supported interfaces (e.g., PC/SC reader, proprietary reader).</td></tr>
<tr><td>Assertions:</td><td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Wed Apr 23 08:07:29 EDT 2008</td></tr>
<tr><td>Device:</td><td>ATT_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Wed Apr 23 08:07:29 EDT 2008
Acquisition finished: Wed Apr 23 08:21:51 EDT 2008

Media connectivity was established via supported interface</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIM-23 SIM connectivity via supported interfaces.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.47 CFT-SIM-02 (AT&T SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIM-02 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIM-02 Attempt acquisition of a non-supported SIM.</td></tr>
<tr><td>Assertions:</td><td>A_SIM-24 If a cellular forensic tool attempts to connect to a non-supported SIM then the tool shall have the ability to identify that the SIM is not supported.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Wed Apr 23 08:31:19 EDT 2008</td></tr>
<tr><td>Device:</td><td>ATT_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Wed Apr 23 08:31:19 EDT 2008
Acquisition finished: Wed Apr 23 08:32:35 EDT 2008

Identification of non-supported media was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIM-24 Identification of non-supported SIMs.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.48 CFT-SIM-03 (AT&T SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIM-03 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIM-03 Begin SIM acquisition and interrupt connectivity by interface disengagement.</td></tr>
<tr><td>Assertions:</td><td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
A_SIM-25 If a cellular forensic tool encounters disengagement between the SIM reader and application then the application shall notify the user that connectivity has been disrupted.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Wed Apr 23 08:33:51 EDT 2008</td></tr>
<tr><td>Device:</td><td>ATT_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Wed Apr 23 08:33:51 EDT 2008
Acquisition finished: Wed Apr 23 08:37:08 EDT 2008

Media connectivity was established via supported interface
Media acquisition disruption notification was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIM-23 SIM connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_SIM-25 Notification of SIM acquisition disruption.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.49 CFT-SIM-04 (AT&T SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIM-04 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIM-04 Attempt acquisition on a password-protected SIM.</td></tr>
<tr><td>Assertions:</td><td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
A_SIM-26 If the SIM is password-protected then the cellular forensic tool shall provide the examiner with the opportunity to input the PIN before acquisition.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Wed Apr 23 08:37:51 EDT 2008</td></tr>
<tr><td>Device:</td><td>ATT_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Wed Apr 23 08:37:51 EDT 2008
Acquisition finished: Wed Apr 23 08:50:55 EDT 2008

Media connectivity was established via supported interface
Ability to enter PIN on protected media before acquisition was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIM-23 SIM connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_SIM-26 Password entry before acquisition for protected SIMs.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.50 CFT-SIM-05 (AT&T SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIM-05 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIM-05 Acquire SIM internal memory and review reported data via the preview-pane or generated reports for readability.</td></tr>
<tr><td>Assertions:</td><td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
A_SIM-27 If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Wed Apr 23 08:51:25 EDT 2008</td></tr>
<tr><td>Device:</td><td>ATT_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Wed Apr 23 08:51:25 EDT 2008
Acquisition finished: Wed Apr 23 09:03:28 EDT 2008

Media connectivity was established via supported interface
Readability and completeness of acquired data was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIM-23 SIM connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_SIM-27 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.51 CFT-SIM-06 (AT&T SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIM-06 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIM-06 Acquire SIM internal memory and review reported subscriber and equipment related information (i.e., SPN, ICCID, IMSI, MSISDN).</td></tr>
<tr><td>Assertions:</td><td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
A_SIM-27 If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.
A_SIM-29 If a cellular forensic tool successfully completes acquisition of the target SIM then the ICCID shall be presented in a human-readable format without modification.
A_SIM-30 If a cellular forensic tool successfully completes acquisition of the target SIM then the IMSI shall be presented in a human-readable format without modification.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Wed Apr 23 09:54:56 EDT 2008</td></tr>
<tr><td>Device:</td><td>ATT_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Wed Apr 23 09:54:56 EDT 2008
Acquisition finished: Wed Apr 23 10:10:39 EDT 2008

Media connectivity was established via supported interface
Readability and completeness of acquired data was successful
ICCID was acquired
IMSI was acquired</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIM-23 SIM connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_SIM-27 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr>
<tr><td>A_SIM-29 Acquisition of ICCID.</td><td>as expected</td></tr>
<tr><td>A_SIM-30 Acquisition of IMSI.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.52 CFT-SIM-07 (AT&T SIM)

Test Case CFT-SIM-07 Guidance Software Neutrino Version 1.4.14

Case Summary:	CFT-SIM-07 Acquire SIM internal memory and review reported Abbreviated Dialing Numbers (ADN).
Assertions:	A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader). A_SIM-27 If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report. A_SIM-32 If a cellular forensic tool successfully completes acquisition of the target SIM then all Abbreviated Dialing Numbers (ADN) shall be presented in a human-readable format without modification.
Tester Name:	rpa
Test Host:	Morrisy
Test Date:	Wed Apr 23 10:26:01 EDT 2008
Device:	ATT_SIM
Source Setup:	OS: WIN XP Interface: USB

DATA OBJECTS	DATA ELEMENTS
Abbreviated Dialing Numbers (ADN)	
	Maximum Length
	Special Character
	Blank Name
	Regular Length - Deleted Number
	Foreign Entry
Call Logs	
	Last Numbers Dialed (LND)
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Foreign
	Incoming SMS - Deleted
	Incoming SMS - Unread
	Incoming Foreign EMS - Read
	Incoming EMS - Deleted

Log Highlights:

Created By Neutrino Version 1.4.14
Acquisition started: Wed Apr 23 10:26:01 EDT 2008
Acquisition finished: Wed Apr 23 10:36:23 EDT 2008

Media connectivity was established via supported interface
Readability and completeness of acquired data was successful
Regular length ADNs were acquired
Maximum Length ADNs were not acquired
Special Character ADNs were not acquired
Blank Name ADNs were acquired

Notes:
Maximum length ADNs (16 characters) were not acquired or reported in either the GUI or generated report.

Special character names (i.e., '@') were not displayed.

Results:

Assertion & Expected Result	Actual Result
A_SIM-23 SIM connectivity via supported interfaces.	as expected
A_SIM-27 Readability and completeness of acquired data via supported reports.	as expected
A_SIM-32 Acquisition of ADNs.	Partial

Test Case CFT-SIM-07 Guidance Software Neutrino Version 1.4.14	
Analysis:	Partial results achieved

5.2.53 CFT-SIM-08 (AT&T SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIM-08 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIM-08 Acquire SIM internal memory and review reported Last Numbers Dialed (LND).</td></tr>
<tr><td>Assertions:</td><td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
A_SIM-27 If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.
A_SIM-33 If a cellular forensic tool successfully completes acquisition of the target SIM then all Last Numbers Dialed (LND) shall be presented in a human-readable format without modification.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Wed Apr 23 10:37:58 EDT 2008</td></tr>
<tr><td>Device:</td><td>ATT_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Wed Apr 23 10:37:58 EDT 2008
Acquisition finished: Wed Apr 23 10:46:56 EDT 2008

Media connectivity was established via supported interface
Readability and completeness of acquired data was successful
LNDs were acquired</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIM-23 SIM connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_SIM-27 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr>
<tr><td>A_SIM-33 Acquisition of LNDs.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.54 CFT-SIM-09 (AT&T SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIM-09 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIM-09 Acquire SIM internal memory and review reported text messages (i.e., SMS, EMS).</td></tr>
<tr><td>Assertions:</td><td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
A_SIM-27 If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.
A_SIM-34 If a cellular forensic tool successfully completes Acquisition of the target SIM then all SMS text messages shall be presented in a human-readable format without modification.
A_SIM-35 If a cellular forensic tool successfully completes Acquisition of the target SIM then all EMS text messages shall be presented in a human-readable format without modification.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Wed Apr 23 10:47:28 EDT 2008</td></tr>
<tr><td>Device:</td><td>ATT_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Wed Apr 23 10:47:28 EDT 2008
Acquisition finished: Wed Apr 23 10:57:15 EDT 2008

Media connectivity was established via supported interface
Readability and completeness of acquired data was successful
ALL text messages (SMS, EMS) were acquired

<u>Notes</u>:
Status flags for text messages are only displayed for deleted text messages.
Read and unread status for text messages are not presented within the GUI or generated report.</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIM-23 SIM connectivity via supported interfaces.</td><td>as expected</td></tr>
<tr><td>A_SIM-27 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr>
<tr><td>A_SIM-34 Acquisition of SMS messages.</td><td>as expected</td></tr>
<tr><td>A_SIM-35 Acquisition of EMS messages.</td><td>as expected</td></tr>
</table></td></tr>
</table>

Test Case CFT-SIM-09 Guidance Software Neutrino Version 1.4.14	
Analysis:	Expected results achieved

5.2.55 CFT-SIMO-01 (AT&T SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIMO-01 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIMO-01 Acquire SIM internal memory and review acquired data via suported generated report formats.</td></tr>
<tr><td>Assertions:</td><td>A_SIMO-58 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Wed Apr 23 11:19:04 EDT 2008</td></tr>
<tr><td>Device:</td><td>ATT_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Wed Apr 23 11:19:04 EDT 2008
Acquisition finished: Wed Apr 23 11:29:43 EDT 2008

Complete representation of known data via generated reports was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIMO-58 Comparison of known SIM data elements via generated reports.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.56 CFT-SIMO-02 (AT&T SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIMO-02 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIMO-02 Acquire SIM internal memory and review acquired data via the preview-pane.</td></tr>
<tr><td>Assertions:</td><td>A_SIMO-59 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Wed Apr 23 11:31:39 EDT 2008</td></tr>
<tr><td>Device:</td><td>ATT_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Wed Apr 23 11:31:39 EDT 2008
Acquisition finished: Wed Apr 23 11:40:41 EDT 2008

Complete representation of known data via preview-pane was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIMO-59 Comparison of known SIM data elements via preview-pane.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.57 CFT-SIMO-03 (AT&T SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIMO-03 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIMO-03 Acquire SIM internal memory and compare acquired data via the preview-pane and supported generated reports.</td></tr>
<tr><td>Assertions:</td><td>A_SIMO-58 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
A_SIMO-59 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
A_SIMO-60 If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Wed Apr 23 13:50:11 EDT 2008</td></tr>
<tr><td>Device:</td><td>ATT_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Wed Apr 23 13:50:11 EDT 2008
Acquisition finished: Wed Apr 23 14:04:06 EDT 2008

Complete representation of known data via generated reports was successful
Complete representation of known data via preview-pane was successful
Consistency between generated reports and preview-pane was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIMO-58 Comparison of known SIM data elements via generated reports.</td><td>as expected</td></tr>
<tr><td>A_SIMO-59 Comparison of known SIM data elements via preview-pane.</td><td>as expected</td></tr>
<tr><td>A_SIMO-60 Compare generated reports and preview-pane views for SIM acquisition.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.58 CFT-SIMO-04 (AT&T SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIMO-04 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIMO-04 After a successful SIM internal memory Acquisition, alter the case file via third party means and attempt to re-open the case.</td></tr>
<tr><td>Assertions:</td><td>A_SIMO-61 If modification is attempted to the case file or individual data elements via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Wed Apr 23 14:06:10 EDT 2008</td></tr>
<tr><td>Device:</td><td>ATT_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Wed Apr 23 14:06:10 EDT 2008
Acquisition finished: Wed Apr 23 14:07:49 EDT 2008

Notification of modified case data was successful

<u>Notes</u>:
EnCase reports the following error when attempting to modify a case file:
Error in <filename>: Invalid data checksum</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIMO-61 Notification of modifed SIM case data.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.59 CFT-SIMO-05 (AT&T SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIMO-05 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIMO-05 Acquire SIM internal memory and review reports for recoverable deleted data.</td></tr>
<tr><td>Assertions:</td><td>A_SIMO-58 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
A_SIMO-59 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
A_SIMO-62 If the cellular forensic tool successfully completes acquisition of the target SIM and recoverable deleted SMS messages exist then the tool shall present recoverable deleted data in a human-readable format without modification.
A_SIMO-63 If the cellular forensic tool successfully completes acquisition of the target SIM and recoverable deleted EMS messages exist then the tool shall present recoverable deleted data in a human-readable format without modification.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Wed Apr 23 14:08:37 EDT 2008</td></tr>
<tr><td>Device:</td><td>ATT_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Wed Apr 23 14:08:37 EDT 2008
Acquisition finished: Wed Apr 23 14:20:00 EDT 2008

Complete representation of known data via generated reports was successful
Complete representation of known data via preview-pane was successful
Deleted SMS data was recovered
Deleted EMS data was recovered</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIMO-58 Comparison of known SIM data elements via generated reports.</td><td>as expected</td></tr>
<tr><td>A_SIMO-59 Comparison of known SIM data elements via preview-pane.</td><td>as expected</td></tr>
<tr><td>A_SIMO-62 Recovery of deleted SMS messages.</td><td>as expected</td></tr>
<tr><td>A_SIMO-63 Recovery of deleted EMS messages.</td><td>as expected</td></tr>
</table></td></tr>
</table>

Test Case CFT-SIMO-05 Guidance Software Neutrino Version 1.4.14	
Analysis:	Expected results achieved

5.2.60 CFT-SIMO-08 (AT&T SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIMO-08 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIMO-08 Begin acquisition on a PIN protected SIM to determine if the tool provides an accurate count of the remaining number of PIN attempts and if the PIN attempts are decremented when entering an incorrect value.</td></tr>
<tr><td>Assertions:</td><td>A_SIMO-67 If a cellular forensic tool provides the examiner with the remaining number of authentication attempts then the application should provide an accurate count of the remaining PIN attempts.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Wed Apr 23 14:33:20 EDT 2008</td></tr>
<tr><td>Device:</td><td>ATT_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Wed Apr 23 14:33:20 EDT 2008
Acquisition finished: Wed Apr 23 14:42:46 EDT 2008

Remaining number of PIN attempts properly displayed was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIMO-67 Display of remaining number of PIN attempts.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.61 CFT-SIMO-09 (AT&T SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIMO-09 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIMO-09 Begin acquisition on a SIM whose PIN attempts have been exhausted to determine if the tool provides an accurate count of the remaining number of PUK attempts and if the PUK attempts are decremented when entering an incorrect value.</td></tr>
<tr><td>Assertions:</td><td>A_SIMO-68 If a cellular forensic tool provides the examiner with the remaining number of PUK attempts then the application should provide an accurate count of the remaining PUK attempts.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Wed Apr 23 14:43:15 EDT 2008</td></tr>
<tr><td>Device:</td><td>ATT_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Wed Apr 23 14:43:15 EDT 2008
Acquisition finished: Wed Apr 23 14:53:26 EDT 2008

Remaining number of PUK attempts properly displayed was successful</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIMO-68 Display of remaining number of PUK attempts.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

5.2.62 CFT-SIMO-10 (AT&T SIM)

<table>
<tr><td colspan="2">Test Case CFT-SIMO-10 Guidance Software Neutrino Version 1.4.14</td></tr>
<tr><td>Case Summary:</td><td>CFT-SIMO-10 Acquire SIM internal memory and review hash values for vendor supported data objects.</td></tr>
<tr><td>Assertions:</td><td>A_SIMO-58 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
A_SIMO-59 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
A_SIMO-69 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.</td></tr>
<tr><td>Tester Name:</td><td>rpa</td></tr>
<tr><td>Test Host:</td><td>Morrisy</td></tr>
<tr><td>Test Date:</td><td>Wed Apr 23 14:53:48 EDT 2008</td></tr>
<tr><td>Device:</td><td>ATT_SIM</td></tr>
<tr><td>Source Setup:</td><td>OS: WIN XP
Interface: USB
<table>
<tr><th>DATA OBJECTS</th><th>DATA ELEMENTS</th></tr>
<tr><td>Abbreviated Dialing Numbers (ADN)</td><td></td></tr>
<tr><td></td><td>Maximum Length</td></tr>
<tr><td></td><td>Special Character</td></tr>
<tr><td></td><td>Blank Name</td></tr>
<tr><td></td><td>Regular Length - Deleted Number</td></tr>
<tr><td></td><td>Foreign Entry</td></tr>
<tr><td>Call Logs</td><td></td></tr>
<tr><td></td><td>Last Numbers Dialed (LND)</td></tr>
<tr><td>Text Messages</td><td></td></tr>
<tr><td></td><td>Incoming SMS - Read</td></tr>
<tr><td></td><td>Incoming SMS - Foreign</td></tr>
<tr><td></td><td>Incoming SMS - Deleted</td></tr>
<tr><td></td><td>Incoming SMS - Unread</td></tr>
<tr><td></td><td>Incoming Foreign EMS - Read</td></tr>
<tr><td></td><td>Incoming EMS - Deleted</td></tr>
</table></td></tr>
<tr><td>Log Highlights:</td><td>Created By Neutrino Version 1.4.14
Acquisition started: Wed Apr 23 14:53:48 EDT 2008
Acquisition finished: Wed Apr 23 15:08:59 EDT 2008

Complete representation of known data via generated reports was successful
Complete representation of known data via preview-pane was successful
Device hash reporting for individual acquired data elements was successful

<u>Notes</u>:
Contacts (ADNs), Text Messages (SMS, EMS) and Call Logs (LND) hash values are reported via the GUI.</td></tr>
<tr><td>Results:</td><td>
<table>
<tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr>
<tr><td>A_SIMO-58 Comparison of known SIM data elements via generated reports.</td><td>as expected</td></tr>
<tr><td>A_SIMO-59 Comparison of known SIM data elements via preview-pane.</td><td>as expected</td></tr>
<tr><td>A_SIMO-69 SIM hash reporting for individual acquired data objects.</td><td>as expected</td></tr>
</table></td></tr>
<tr><td>Analysis:</td><td>Expected results achieved</td></tr>
</table>

About the National Institute of Justice

NIJ is the research, development, and evaluation agency of the U.S. Department of Justice. NIJ's mission is to advance scientific research, development, and evaluation to enhance the administration of justice and public safety. NIJ's principal authorities are derived from the Omnibus Crime Control and Safe Streets Act of 1968, as amended (see 42 U.S.C. §§ 3721–3723).

The NIJ Director is appointed by the President and confirmed by the Senate. The Director establishes the Institute's objectives, guided by the priorities of the Office of Justice Programs, the U.S. Department of Justice, and the needs of the field. The Institute actively solicits the views of criminal justice and other professionals and researchers to inform its search for the knowledge and tools to guide policy and practice.

Strategic Goals

NIJ has seven strategic goals grouped into three categories:

Creating relevant knowledge and tools

1. Partner with State and local practitioners and policymakers to identify social science research and technology needs.
2. Create scientific, relevant, and reliable knowledge—with a particular emphasis on terrorism, violent crime, drugs and crime, cost-effectiveness, and community-based efforts—to enhance the administration of justice and public safety.
3. Develop affordable and effective tools and technologies to enhance the administration of justice and public safety.

Dissemination

4. Disseminate relevant knowledge and information to practitioners and policymakers in an understandable, timely, and concise manner.
5. Act as an honest broker to identify the information, tools, and technologies that respond to the needs of stakeholders.

Agency management

6. Practice fairness and openness in the research and development process.
7. Ensure professionalism, excellence, accountability, cost-effectiveness, and integrity in the management and conduct of NIJ activities and programs.

Program Areas

In addressing these strategic challenges, the Institute is involved in the following program areas: crime control and prevention, including policing; drugs and crime; justice systems and offender behavior, including corrections; violence and victimization; communications and information technologies; critical incident response; investigative and forensic sciences, including DNA; less-than-lethal technologies; officer protection; education and training technologies; testing and standards; technology assistance to law enforcement and corrections agencies; field testing of promising programs; and international crime control.

In addition to sponsoring research and development and technology assistance, NIJ evaluates programs, policies, and technologies. NIJ communicates its research and evaluation findings through conferences and print and electronic media.

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