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**Test Results for Mobile Device Acquisition Tool:  
Micro Systemation .XRY 3.6**

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**Test Results for Mobile Device Acquisition Tool:  
Micro Systemation .XRY 3.6**



**David W. Hagy**

*Director, National Institute of Justice*

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The National Institute of Justice is a component of the Office of Justice Programs, which also includes the Bureau of Justice Assistance, the Bureau of Justice Statistics, the Office of Juvenile Justice and Delinquency Prevention, and the Office for Victims of Crime.

**May 2008**

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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, and the National Institute of Standards and Technology's (NIST's) Office of Law Enforcement Standards (OLEES) 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 Micro Systemation .XRY, version 3.6, 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](http://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: Micro Systemation .XRY  
Version: 3.6  
Run Environments: Windows XP Service Pack 2

Supplier: Micro Systemation

Address: Rasundavagen 1-3  
108 68 Solna  
Sweden

Tel: +46 (0)8-739 02 70

Fax: +46 (0)8-730 01 70

WWW: <http://www.msab.com>

### 1 Results Summary

Except for the following test cases (CFT-IM-05, CFT-IM-06), 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. The MSISDN was not reported for the Nokia 6101 after a successful internal memory acquisition. (CFT-IM-05: Nokia 6101)
2. Maximum length Notes created on the Nokia 6101 were truncated preventing the entire message to be acquired. The tool reports a maximum of 184 characters within a Note. (CFT-IM-06: Nokia 6101)

## 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 Micro Systemation .XRY and the linked test cases. Table 2 lists the features not available in Micro Systemation .XRY and the linked test cases.

**Table 1 Selected Test Cases**

<b>Supported Optional Feature</b>	<b>Cases selected for execution</b>
Base Cases	CFT-IM-(01-10), CFT-SIM-(01-10)
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
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 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
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
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

**Table 2 Omitted Test Cases**

<b>Unsupported Optional Feature</b>	<b>Cases omitted (not executed)</b>
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
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 the overall case file hash	CFT-IMO-12
Acquire SIM internal memory and review hash values for vendor supported data objects	CFT-SIMO-10
Acquire SIM internal memory and review the overall case file hash	CFT-SIMO-11

Some test cases have variant forms to accommodate parameters within test assertions. These variations cover the acquisition interface type (i.e., Bluetooth, Infrared).

The following source mobile device acquisition interfaces were tested: cable and Bluetooth for the Motorola RAZR V3, cable and IrDA for the Nokia 6101, and Micro Systemation's USB SIM reader for internal memory SIM acquisitions.

### 3 Results by Test Assertion

Table 3 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
<b>A_IM-01</b> 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	
<b>A_IM-02</b> If a cellular forensic tool attempts to connect to a nonsupported device then the tool shall have the ability to identify that the device is not supported.	1	
<b>A_IM-03</b> If a cellular forensic tool encounters disengagement between the device and application then the application shall notify the user that connectivity has been disrupted.	1	
<b>A_IM-04</b> 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	
<b>A_IM-05</b> 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.	1	3.1
<b>A_IM-06</b> 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	
<b>A_IM-07</b> 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	
<b>A_IM-08</b> 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	
<b>A_IM-09</b> 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	
<b>A_IM-10</b> 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	
<b>A_IM-11</b> If a cellular forensic tool successfully completes acquisition of the target device then all known email addresses associated with	1	

address book entries shall be presented in a human-readable format without modification.		
<b>A_IM-12</b> 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	
<b>A_IM-13</b> 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.	1	
<b>A_IM-14</b> 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	3.2
<b>A_IM-15</b> 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	
<b>A_IM-16</b> 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	
<b>A_IM-17</b> 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.	1	
<b>A_IM-18</b> 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.	1	
<b>A_IM-19</b> 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.	1	
<b>A_IM-20</b> 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	
<b>A_IM-21</b> 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	
<b>A_IM-22</b> 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	
<b>A_SIM-23</b> 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	
<b>A_SIM-24</b> If a cellular forensic tool attempts to connect to a nonsupported SIM then the tool shall have the ability to identify that the	1	

SIM is not supported.		
<b>A_SIM-25</b> 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	
<b>A_SIM-26</b> 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	
<b>A_SIM-27</b> 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	
<b>A_SIM-28</b> 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.	1	
<b>A_SIM-29</b> 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	
<b>A_SIM-30</b> 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.	1	
<b>A_SIM-31</b> 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.	1	
<b>A_SIM-32</b> 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	
<b>A_SIM-33</b> 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	
<b>A_SIM-34</b> 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	
<b>A_SIM-35</b> 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	
<b>A_SIM-36</b> 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.	1	
<b>A_SIM-37</b> 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.	1	
<b>A_IMO-38</b> 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	
<b>A_IMO-39</b> If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without	8	



modification in a preview-pane view.		
<b>A_IMO-40</b> 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	
<b>A_IMO-41</b> 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	
<b>A_IMO-51</b> If the cellular forensic tool supports SIM access card creation then the card creation shall be completed without errors via manufacturer suggested protocols. Access cards characteristics should be consistent with vendor documentation.	1	
<b>A_IMO-52</b> 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.	1	
<b>A_IMO-53</b> 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.	1	
<b>A_IMO-54</b> 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.	1	
<b>A_IMO-56</b> 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	
<b>A_SIMO-58</b> 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	
<b>A_SIMO-59</b> 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	
<b>A_SIMO-60</b> 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	
<b>A_SIMO-61</b> 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	
<b>A_SIMO-62</b> 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.	1	
<b>A_SIMO-63</b> 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	

<b>A_SIMO-64</b> If a cellular forensic tool supports creation of log files then the application should present the log files in a human-readable format outlining the acquisition process.	1	
<b>A_SIMO-65</b> 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.	1	
<b>A_SIMO-66</b> 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.	1	
<b>A_SIMO-67</b> 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	
<b>A_SIMO-68</b> 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	

Table 4 lists the assertions that were not tested, usually due to the tool not supporting an optional feature.

**Table 4 Assertions Not Tested**

<b>Assertions not Tested</b>
<b>A_IMO-42</b> 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.
<b>A_IMO-43</b> 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.
<b>A_IMO-44</b> 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.
<b>A_IMO-45</b> 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.
<b>A_IMO-46</b> 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.
<b>A_IMO-47</b> 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.
<b>A_IMO-48</b> 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.

<b>A_IMO-49</b> 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.
<b>A_IMO-50</b> 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.
<b>A_IMO-55</b> 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.
<b>A_IMO-57</b> 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.
<b>A_SIMO-69</b> 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.
<b>A_SIMO-70</b> 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 Acquisition of MSISDN**

.XRY does not report the MSISDN from the mobile device internal memory for the Nokia 6101 (Test Case: CFT-IM-05). However, the MSISDN is acquired and reported when acquiring the internal memory of the Motorola RAZR V3.

NOTE: XRY acquires the MSISDN by sending the AT+CNUM command to the device and echoes the response. Not all devices support this command. This number is a text field on the SIM. The number is not used to identify the user by the network, therefore can be any type of number. The MSISDN can be manipulated and report misleading information.

### **3.2 Acquisition of PIM Data**

.XRY has the ability to acquire Personal Information Management (PIM) data e.g., Calendar, Notes, To-Do list, etc. The tool reports up to 184 characters for Notes (Test Case: CFT-IM-06). Dependent upon the mobile device's design and capabilities determines the amount of characters a created Note is capable of storing. The Nokia 6101 has the ability to create a Note containing 3000 characters. Therefore, the mobile device internal memory acquisition truncated a significant amount of PIM data present on the device.

## 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**

<b>Heading</b>	<b>Description</b>
First Line:	Test case ID, name, and version of tool tested.
Case Summary:	Test case summary from <i>GSM Mobile Device and Associated Media Tool Specification and Test Plan Version 1.1</i> .
Assertions:	The test assertions applicable to the test case, selected from <i>GSM Mobile Device and Associated Media Tool Specification and Test Plan Version 1.1</i> .
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 Micro Systemation .XRY Version 3.6																																																																																			
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:	Wed Apr 2 09:05:31 EDT 2008																																																																																		
Device:	Nokia_6101																																																																																		
Source Setup:	OS: WIN XP Interface: cable																																																																																		
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Test Case CFT-IM-01 Micro Systemation .XRY Version 3.6					
Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Wed Apr 2 09:05:31 EDT 2008  Acquisition finished: Wed Apr 2 09:25:40 EDT 2008</p> <p>Device connectivity was established via supported interface (i.e., cable, IrDA)</p> <p><b>Notes:</b>  IrDA acquisition reported: General Phone Information, Contacts, Calls, and Calendar entries all which were consistent with cable acquires.  Bluetooth acquisition not supported.</p>				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IM-01 Device connectivity via supported interfaces.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IM-01 Device connectivity via supported interfaces.	as expected
Assertion & Expected Result	Actual Result				
A_IM-01 Device connectivity via supported interfaces.	as expected				
Analysis:	Expected results achieved				

## 5.2.2 CFT-IM-02 (Nokia 6101)

Test Case CFT-IM-02 Micro Systemation .XRY Version 3.6																																																																																															
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:	Wed Apr 2 10:00:15 EDT 2008																																																																																														
Device:	Non-supported mobile device																																																																																														
Source Setup:	<p>OS: WIN XP Interface: cable</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <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> <tr> <td></td> <td>Incoming SMS - Read</td> </tr> <tr> <td></td> <td>Incoming SMS - Unread</td> </tr> <tr> <td></td> <td>Incoming SMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing SMS</td> </tr> <tr> <td></td> <td>Outgoing SMS - Deleted</td> </tr> <tr> <td></td> <td>Incoming EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Unread</td> </tr> <tr> <td></td> <td>Incoming Foreign EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing EMS</td> </tr> <tr> <td></td> <td>Outgoing EMS - Deleted</td> </tr> <tr> <td>MMS Messages</td> <td></td> </tr> <tr> <td></td> <td>Incoming Audio</td> </tr> <tr> <td></td> <td>Incoming Image</td> </tr> <tr> <td></td> <td>Incoming Video</td> </tr> <tr> <td></td> <td>Outgoing Audio</td> </tr> <tr> <td></td> <td>Outgoing Image</td> </tr> <tr> <td></td> <td>Outgoing Video</td> </tr> <tr> <td>Stand-alone data files</td> <td></td> </tr> <tr> <td></td> <td>Audio</td> </tr> <tr> <td></td> <td>Audio - Deleted</td> </tr> <tr> <td></td> <td>Image</td> </tr> <tr> <td></td> <td>Image - Deleted</td> </tr> <tr> <td></td> <td>Video</td> </tr> <tr> <td></td> <td>Video - Deleted</td> </tr> </tbody> </table>	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
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Test Case CFT-IM-02 Micro Systemation .XRY Version 3.6					
Highlights:	Acquisition started: Wed Apr 2 10:00:15 EDT 2008 Acquisition finished: Wed Apr 2 10:01:00 EDT 2008  Identification of non-supported devices was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IM-02 Identification of non-supported devices.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IM-02 Identification of non-supported devices.	as expected
Assertion & Expected Result	Actual Result				
A_IM-02 Identification of non-supported devices.	as expected				
Analysis:	Expected results achieved				

### 5.2.3 CFT-IM-03 (Nokia 6101)

Test Case CFT-IM-03 Micro Systemation .XRY Version 3.6																																																																																															
Case Summary:	CFT-IM-03 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.																																																																																														
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-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.																																																																																														
Tester Name:	rpa																																																																																														
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Test Case CFT-IM-03 Micro Systemation .XRY Version 3.6							
Log Highlights:	<p>Created By .XRY Version 3.6            Acquisition started: Wed Apr 2 10:03:48 EDT 2008            Acquisition finished: Wed Apr 2 10:14:15 EDT 2008</p> <p>Device connectivity was established via supported interface            Device acquisition disruption notification was successful</p> <p><b>Notes:</b>            If cable is pulled from the device interface or the device is powered off the acquisition progress bar pauses until the device cable is reconnected or the phone is powered on.</p> <p>When the cable is pulled from the XRY hub the examiner is notified immediately.</p>						
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IM-01 Device connectivity via supported interfaces.</td> <td>as expected</td> </tr> <tr> <td>A_IM-03 Notification of device acquisition disruption.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IM-01 Device connectivity via supported interfaces.	as expected	A_IM-03 Notification of device acquisition disruption.	as expected
Assertion & Expected Result	Actual Result						
A_IM-01 Device connectivity via supported interfaces.	as expected						
A_IM-03 Notification of device acquisition disruption.	as expected						
Analysis:	Expected results achieved						

## 5.2.4 CFT-IM-04 (Nokia 6101)

Test Case CFT-IM-04 Micro Systemation .XRY Version 3.6																																																																																															
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.																																																																																														
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Test Host:	Morrisy																																																																																														
Test Date:	Wed Apr 2 10:33:54 EDT 2008																																																																																														
Device:	Nokia_6101																																																																																														
Source Setup:	OS: WIN XP Interface: cable																																																																																														
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Test Case CFT-IM-04 Micro Systemation .XRY Version 3.6							
Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Wed Apr 2 10:33:54 EDT 2008  Acquisition finished: Wed Apr 2 10:49:26 EDT 2008</p> <p>Device connectivity was established via supported interface  Readability and completeness of acquired data was successful</p>						
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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> </tbody> </table>	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
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						
Analysis:	Expected results achieved						

## 5.2.5 CFT-IM-05 (Nokia 6101)

Test Case CFT-IM-05 Micro Systemation .XRY Version 3.6																																																																									
Case Summary:	CFT-IM-05 Acquire mobile device internal memory and review reported subscriber and equipment related information (i.e., IMEI, MSISDN).																																																																								
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p>																																																																								
Tester Name:	rpa																																																																								
Test Host:	Morrisy																																																																								
Test Date:	Wed Apr 2 10:54:25 EDT 2008																																																																								
Device:	Nokia_6101																																																																								
Source Setup:	OS: WIN XP Interface: USB <table border="1" data-bbox="406 856 1367 1894"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Address Book Entries</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>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>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>Incoming SMS - Read</td> </tr> <tr> <td></td> <td>Incoming SMS - Unread</td> </tr> <tr> <td></td> <td>Incoming SMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing SMS</td> </tr> <tr> <td></td> <td>Outgoing SMS - Deleted</td> </tr> <tr> <td></td> <td>Incoming EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Unread</td> </tr> <tr> <td></td> <td>Incoming Foreign EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing EMS</td> </tr> <tr> <td></td> <td>Outgoing EMS - Deleted</td> </tr> <tr> <td>MMS Messages</td> <td>Incoming Audio</td> </tr> <tr> <td></td> <td>Incoming Image</td> </tr> <tr> <td></td> <td>Incoming Video</td> </tr> <tr> <td></td> <td>Outgoing Audio</td> </tr> <tr> <td></td> <td>Outgoing Image</td> </tr> <tr> <td></td> <td>Outgoing Video</td> </tr> <tr> <td></td> <td>Stand-alone data files</td> </tr> </tbody> </table>	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
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Test Case CFT-IM-05 Micro Systemation .XRY Version 3.6													
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	Audio												
	Audio - Deleted												
	Image												
	Image - Deleted												
	Video												
	Video - Deleted												
Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Wed Apr 2 10:54:25 EDT 2008  Acquisition finished: Wed Apr 2 11:12:19 EDT 2008</p> <p>Device connectivity was established via supported interface  Readability and completeness of acquired data was successful  MSISDN was not acquired</p>												
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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-05 Acquisition of MSISDN.</td> <td>Not as expected</td> </tr> <tr> <td>A_IM-06 Acquisition of IMEI.</td> <td>as expected</td> </tr> </tbody> </table>	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-05 Acquisition of MSISDN.	Not as expected	A_IM-06 Acquisition of IMEI.	as expected		
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-05 Acquisition of MSISDN.	Not as expected												
A_IM-06 Acquisition of IMEI.	as expected												
Analysis:	Partial results achieved												

## 5.2.6 CFT-IM-06 (Nokia 6101)

Test Case CFT-IM-06 Micro Systemation .XRY Version 3.6																									
Case Summary:	CFT-IM-06 Acquire mobile device internal memory and review reported PIM related data.																								
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>																								
Tester Name:	rpa																								
Test Host:	Morrisy																								
Test Date:	Thu Apr 3 08:35:59 EDT 2008																								
Device:	Nokia_6101																								
Source Setup:	OS: WIN XP Interface: cable <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td rowspan="10">Address Book Entries</td> <td>Maximum Length</td> </tr> <tr> <td>Regular Length, email, picture</td> </tr> <tr> <td>Special Character</td> </tr> <tr> <td>Blank Name</td> </tr> <tr> <td>Regular Length, Deleted email - deleted picture</td> </tr> <tr> <td>Deleted Entry</td> </tr> <tr> <td>Foreign Entry</td> </tr> <tr> <td rowspan="4">PIM Data</td> <td>Maximum Length</td> </tr> <tr> <td>Regular Length</td> </tr> <tr> <td>Deleted Entry</td> </tr> <tr> <td>Special Character</td> </tr> <tr> <td rowspan="6">Call Logs</td> <td>Missed</td> </tr> <tr> <td>Missed - Deleted</td> </tr> <tr> <td>Incoming</td> </tr> <tr> <td>Incoming - Deleted</td> </tr> <tr> <td>Outgoing</td> </tr> <tr> <td>Outgoing - Deleted</td> </tr> <tr> <td>Text Messages</td> <td></td> </tr> </tbody> </table>	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	
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	Outgoing - Deleted																								
Text Messages																									



**Test Case CFT-IM-06 Micro Systemation .XRY Version 3.6**

	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 .XRY Version 3.6  
 Acquisition started: Thu Apr 3 08:35:59 EDT 2008  
 Acquisition finished: Thu Apr 3 08:52:44 EDT 2008

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

**Notes:**  
 Address book entries containing pictures were not linked directly to the corresponding name.  
 Maximum Length Notes were truncated allowing a maximum of 184 characters.

**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.	Not as expected

Test Case CFT-IM-06 Micro Systemation .XRY Version 3.6	
Analysis:	Partial results achieved

## 5.2.7 CFT-IM-07 (Nokia 6101)

Test Case CFT-IM-07 Micro Systemation .XRY Version 3.6																																																																																									
Case Summary:	CFT-IM-07 Acquire mobile device internal memory and review reported call logs.																																																																																								
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p>																																																																																								
Tester Name:	rpa																																																																																								
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Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Thu Apr 3 09:35:35 EDT 2008  Acquisition finished: Thu Apr 3 09:57:33 EDT 2008</p> <p>Device connectivity was established via supported interface  Readability and completeness of acquired data was successful  All Call Logs (incoming, outgoing) were acquired</p>								
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A_IM-15 Acquisition of call logs.	as expected								
Analysis:	Expected results achieved								

## 5.2.8 CFT-IM-08 (Nokia 6101)

Test Case CFT-IM-08 Micro Systemation .XRY Version 3.6																																																																																									
Case Summary:	CFT-IM-08 Acquire mobile device internal memory and review reported text messages.																																																																																								
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p>																																																																																								
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Test Host:	Morrisy																																																																																								
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Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Thu Apr 3 09:05:39 EDT 2008  Acquisition finished: Thu Apr 3 09:34:44 EDT 2008</p> <p>Device connectivity was established via supported interface  Readability and completeness of acquired data was successful  ALL text messages (SMS, EMS) were acquired</p>								
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Analysis:	Expected results achieved								

## 5.2.9 CFT-IM-09 (Nokia 6101)

Test Case CFT-IM-09 Micro Systemation .XRY Version 3.6																																																																													
Case Summary:	CFT-IM-09 Acquire mobile device internal memory and review reported MMS multi-media related data (i.e., text, audio, graphics, video).																																																																												
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>																																																																												
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Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Thu Apr 3 10:15:44 EDT 2008  Acquisition finished: Thu Apr 3 10:39:34 EDT 2008</p> <p>Device connectivity was established via supported interface  Readability and completeness of acquired data was successful  ALL MMS messages (Audio, Image, Video) were acquired</p> <p><b>Notes:</b>  QuickTime Version 7.4.1 was used to execute MMS attachments.</p>																		
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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-17 Acquisition of audio MMS messages.</td> <td>as expected</td> </tr> <tr> <td>A_IM-18 Acquisition of image MMS messages.</td> <td>as expected</td> </tr> <tr> <td>A_IM-19 Acquisition of video MMS messages.</td> <td>as expected</td> </tr> </tbody> </table>	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-17 Acquisition of audio MMS messages.	as expected	A_IM-18 Acquisition of image MMS messages.	as expected	A_IM-19 Acquisition of video MMS messages.	as expected						
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Analysis:	Expected results achieved																		



## 5.2.10 CFT-IM-10 (Nokia 6101)

Test Case CFT-IM-10 Micro Systemation .XRY Version 3.6																																																																							
Case Summary:	CFT-IM-10 Acquire mobile device internal memory and review reported stand-alone multi-media data (i.e., audio, graphics, video).																																																																						
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>																																																																						
Tester Name:	rpa																																																																						
Test Host:	Morrisy																																																																						
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Device:	Nokia_6101																																																																						
Source Setup:	OS: WIN XP Interface: cable <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <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> <tr> <td></td> <td>Incoming SMS - Read</td> </tr> <tr> <td></td> <td>Incoming SMS - Unread</td> </tr> <tr> <td></td> <td>Incoming SMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing SMS</td> </tr> <tr> <td></td> <td>Outgoing SMS - Deleted</td> </tr> <tr> <td></td> <td>Incoming EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Unread</td> </tr> <tr> <td></td> <td>Incoming Foreign EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing EMS</td> </tr> <tr> <td></td> <td>Outgoing EMS - Deleted</td> </tr> <tr> <td>MMS Messages</td> <td></td> </tr> <tr> <td></td> <td>Incoming Audio</td> </tr> </tbody> </table>	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
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Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Thu Apr 3 11:56:48 EDT 2008  Acquisition finished: Thu Apr 3 12:09:33 EDT 2008</p> <p>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</p> <p><b>Notes:</b>  QuickTime Version 7.4.1 was used to execute stand-alone files.</p>																								
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Analysis:	Expected results achieved																								

## 5.2.11 CFT-IMO-01 (Nokia 6101)

Test Case CFT-IMO-01 Micro Systemation .XRY Version 3.6																																																																																															
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.																																																																																														
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Log	Created By .XRY Version 3.6																																																																																														

Test Case CFT-IMO-01 Micro Systemation .XRY Version 3.6					
Highlights:	Acquisition started: Fri Apr 11 08:40:04 EDT 2008 Acquisition finished: Fri Apr 11 09:06:33 EDT 2008  Complete representation of known data via generated reports was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-38 Comparison of known device data elements via generated reports.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IMO-38 Comparison of known device data elements via generated reports.	as expected
Assertion & Expected Result	Actual Result				
A_IMO-38 Comparison of known device data elements via generated reports.	as expected				
Analysis:	Expected results achieved				

## 5.2.12 CFT-IMO-02 (Nokia 6101)

Test Case CFT-IMO-02 Micro Systemation .XRY Version 3.6																																																																																															
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.																																																																																														
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Test Case CFT-IMO-02 Micro Systemation .XRY Version 3.6					
Highlights:	Acquisition started: Fri Apr 11 09:12:33 EDT 2008 Acquisition finished: Fri Apr 11 09:25:20 EDT 2008  Complete representation of known data via preview-pane was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-39 Comparison of known device data elements via preview-pane.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IMO-39 Comparison of known device data elements via preview-pane.	as expected
Assertion & Expected Result	Actual Result				
A_IMO-39 Comparison of known device data elements via preview-pane.	as expected				
Analysis:	Expected results achieved				

### 5.2.13 CFT-IMO-03 (Nokia 6101)

Test Case CFT-IMO-03 Micro Systemation .XRY Version 3.6																																																																																													
Case Summary:	CFT-IMO-03 Acquire mobile device internal memory and compare reported data via the preview-pane and supported generated reports.																																																																																												
Assertions:	<p>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.</p> <p>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.</p> <p>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.</p>																																																																																												
Tester Name:	rpa																																																																																												
Test Host:	Morrisy																																																																																												
Test Date:	Fri Apr 11 09:26:40 EDT 2008																																																																																												
Device:	Nokia_6101																																																																																												
Source Setup:	<p>OS: WIN XP Interface: cable</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <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> <tr> <td></td> <td>Incoming SMS - Read</td> </tr> <tr> <td></td> <td>Incoming SMS - Unread</td> </tr> <tr> <td></td> <td>Incoming SMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing SMS</td> </tr> <tr> <td></td> <td>Outgoing SMS - Deleted</td> </tr> <tr> <td></td> <td>Incoming EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Unread</td> </tr> <tr> <td></td> <td>Incoming Foreign EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing EMS</td> </tr> <tr> <td></td> <td>Outgoing EMS - Deleted</td> </tr> <tr> <td>MMS Messages</td> <td></td> </tr> <tr> <td></td> <td>Incoming Audio</td> </tr> <tr> <td></td> <td>Incoming Image</td> </tr> <tr> <td></td> <td>Incoming Video</td> </tr> <tr> <td></td> <td>Outgoing Audio</td> </tr> <tr> <td></td> <td>Outgoing Image</td> </tr> <tr> <td></td> <td>Outgoing Video</td> </tr> <tr> <td>Stand-alone data files</td> <td></td> </tr> <tr> <td></td> <td>Audio</td> </tr> <tr> <td></td> <td>Audio - Deleted</td> </tr> <tr> <td></td> <td>Image</td> </tr> <tr> <td></td> <td>Image - Deleted</td> </tr> <tr> <td></td> <td>Video</td> </tr> </tbody> </table>	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
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Test Case CFT-IMO-03 Micro Systemation .XRY Version 3.6									
	Video - Deleted								
Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Fri Apr 11 09:26:40 EDT 2008  Acquisition finished: Fri Apr 11 09:40:51 EDT 2008</p> <p>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</p>								
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A_IMO-39 Comparison of known device data elements via preview-pane.	as expected								
A_IMO-40 Compare generated reports and preview-pane views for device acquisition.	as expected								
Analysis:	Expected results achieved								



## 5.2.14 CFT-IMO-04 (Nokia 6101)

Test Case CFT-IMO-04 Micro Systemation .XRY Version 3.6																																																																																															
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																																																																																														
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Test Case CFT-IMO-04 Micro Systemation .XRY Version 3.6					
Highlights:	<p>Acquisition started: Fri Apr 11 09:42:14 EDT 2008  Acquisition finished: Fri Apr 11 10:05:25 EDT 2008</p> <p>Notification of modified case data was successful</p> <p><b>Notes:</b>  Case File Encryption has to be selected before acquisition.</p>				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-41 Notification of modified device case data.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IMO-41 Notification of modified device case data.	as expected
Assertion & Expected Result	Actual Result				
A_IMO-41 Notification of modified device case data.	as expected				
Analysis:	Expected results achieved				

## 5.2.15 CFT-IMO-07 (Nokia 6101)

Test Case CFT-IMO-07 Micro Systemation .XRY Version 3.6																																																																																			
Case Summary:	CFT-IMO-07 Create a SIM access card via vendor documentation.																																																																																		
Assertions:	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. Access cards characteristics should be consistent with vendor documentation.																																																																																		
Tester Name:	rpa																																																																																		
Test Host:	Morrisy																																																																																		
Test Date:	Fri Apr 11 11:00:15 EDT 2008																																																																																		
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	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																																																																																		

Test Case CFT-IMO-07 Micro Systemation .XRY Version 3.6					
Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Fri Apr 11 11:00:15 EDT 2008 Acquisition finished: Fri Apr 11 11:02:23 EDT 2008  Access card creation was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-51 Access card creation.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IMO-51 Access card creation.	as expected
Assertion & Expected Result	Actual Result				
A_IMO-51 Access card creation.	as expected				
Analysis:	Expected results achieved				

## 5.2.16 CFT-IMO-08 (Nokia 6101)

Test Case CFT-IMO-08 Micro Systemation .XRY Version 3.6																																																																																															
Case Summary:	CFT-IMO-08 Acquire mobile device internal memory and review generated log files.																																																																																														
Assertions:	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.																																																																																														
Tester Name:	rpa																																																																																														
Test Host:	Morrisy																																																																																														
Test Date:	Fri Apr 11 11:04:15 EDT 2008																																																																																														
Device:	Nokia_6101																																																																																														
Source Setup:	OS: WIN XP Interface: cable																																																																																														
	<table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <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> <tr> <td></td> <td>Incoming SMS - Read</td> </tr> <tr> <td></td> <td>Incoming SMS - Unread</td> </tr> <tr> <td></td> <td>Incoming SMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing SMS</td> </tr> <tr> <td></td> <td>Outgoing SMS - Deleted</td> </tr> <tr> <td></td> <td>Incoming EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Unread</td> </tr> <tr> <td></td> <td>Incoming Foreign EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing EMS</td> </tr> <tr> <td></td> <td>Outgoing EMS - Deleted</td> </tr> <tr> <td>MMS Messages</td> <td></td> </tr> <tr> <td></td> <td>Incoming Audio</td> </tr> <tr> <td></td> <td>Incoming Image</td> </tr> <tr> <td></td> <td>Incoming Video</td> </tr> <tr> <td></td> <td>Outgoing Audio</td> </tr> <tr> <td></td> <td>Outgoing Image</td> </tr> <tr> <td></td> <td>Outgoing Video</td> </tr> <tr> <td>Stand-alone data files</td> <td></td> </tr> <tr> <td></td> <td>Audio</td> </tr> <tr> <td></td> <td>Audio - Deleted</td> </tr> <tr> <td></td> <td>Image</td> </tr> <tr> <td></td> <td>Image - Deleted</td> </tr> <tr> <td></td> <td>Video</td> </tr> <tr> <td></td> <td>Video - Deleted</td> </tr> </tbody> </table>	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
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	Foreign Entry																																																																																														
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	Regular Length																																																																																														
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Text Messages																																																																																															
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	Incoming SMS - Deleted																																																																																														
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	Image - Deleted																																																																																														
	Video																																																																																														
	Video - Deleted																																																																																														

Test Case CFT-IMO-08 Micro Systemation .XRY Version 3.6		
Log	Created By .XRY Version 3.6	
Highlights:	Acquisition started: Fri Apr 11 11:04:15 EDT 2008	
	Acquisition finished: Fri Apr 11 11:25:12 EDT 2008	
	Creation of complete and human-readable log files was successful	
	<b>Notes:</b>	
	XRY Log	
	Module	Status                      Message
	-----	-----
	MAIN	Success                      Initiating Process
	MAIN	Success                      .XRY Version 3.6
	MAIN	Success                      Connected to SoftGSM NG USB Modem #5 [COM9]
	MAIN	Success                      Device Name: Nokia 6101
	MAIN	Success                      CGMI Resp = [Nokia]
	MAIN	Success                      CGMM Resp = [Nokia 6101]
	MAIN	Success                      CGMR Resp = [V 03.3508-06-05RM-76(c) Nokia. ]
	MAIN	Success                      I3 Resp = [Nokia 6101]
	MAIN	Success                      Starting process of GSM0707 (3.1)
	GSM0707	Success                      Connecting
	GSM0707	Success                      Analyzing General Information
	GSM0707	Success                      Reading General Information
	GSM0707	Success                      Disconnecting
	MAIN	Success                      GSM0707 (3.1) completed successfully
	MAIN	Success                      Starting process of FBUS (3.1)
	FBUS	Success                      Connecting
	FBUS	Success                      Analyzing
	FBUS	Success                      Reading General Information
	FBUS	Success                      Analyzing Contacts ME
	FBUS	Success                      Reading Contacts
	FBUS	Success                      Analyzing Contacts SM
	FBUS	Success                      Reading Contacts
	FBUS	Success                      Analyzing Calls
	FBUS	Success                      Reading Calls
	FBUS	Success                      Reading Calls
	FBUS	Success                      Reading Calls
	FBUS	Success                      Analyzing Calendar
	FBUS	Success                      Reading Calendar
	FBUS	Success                      Analyzing SMS
	FBUS	Success                      Reading SMS
	FBUS	Success                      Reading Inbox
	FBUS	Success                      Reading Sent items
	FBUS	Success                      Reading Saved text msgs.
	FBUS	Success                      Reading Templates
	FBUS	Success                      Reading Outbox
	FBUS	Success                      Reading Outbox
	FBUS	Success                      Analyzing Tasks
	FBUS	Success                      Analyzing Notes
	FBUS	Success                      Reading Notes
	FBUS	Success                      Analyzing Files
	FBUS	Success                      Analyzing predefgallery
	FBUS	Success                      Analyzing predefgallery/predeftones
	FBUS	Success                      Analyzing predefgallery/predeftones/predefringtones
	FBUS	Success                      Analyzing predefgallery/predeftones/predefalerrtones
	FBUS	Success                      Analyzing predefgallery/predefgraphics
	FBUS	Success                      Analyzing
	predefgallery/predefgraphics/predefwallpapers	
	FBUS	Success                      Analyzing
	predefgallery/predefgraphics/predefscreensavers	
	FBUS	Success                      Analyzing predefgallery/predefgraphics/predefcliparts
	FBUS	Success                      Analyzing predefgallery/predefgraphics/predefframes
	FBUS	Success                      Analyzing
	predefgallery/predefgraphics/predefpresencelogo	
	FBUS	Success                      Analyzing predefgallery/predefthemes
	FBUS	Success                      Analyzing predefgallery/predefthemeactive
	FBUS	Success                      Analyzing
	predefgallery/predefthemeactive/themes_setup1	
	FBUS	Success                      Analyzing predefgallery/predefphotos
	FBUS	Success                      Analyzing predefgallery/predefvideos

Test Case CFT-IMO-08 Micro Systemation .XRY Version 3.6

FBUS	Success	Analyzing predefgallery/predefrecordings
FBUS	Success	Analyzing predefgallery/predefreceived
FBUS	Success	Analyzing predefgallery/predefthemepreview
FBUS	Success	Analyzing predefgallery/predefthemepreview/Thumbnails
FBUS	Success	Analyzing predefinfofolder
FBUS	Success	Analyzing predefomadm
FBUS	Success	Analyzing predefomadm/PRECFG
FBUS	Success	Analyzing predefomadm/01
FBUS	Success	Analyzing predefomadm/01/19
FBUS	Success	Analyzing predefomadm/01/01
FBUS	Success	Analyzing predefomadm/01/02
FBUS	Success	Analyzing predefomadm/01/03
FBUS	Success	Analyzing predefomadm/01/04
FBUS	Success	Analyzing predefomadm/02
FBUS	Success	Analyzing predefomadm/02/19
FBUS	Success	Analyzing predefomadm/02/01
FBUS	Success	Analyzing predefomadm/02/02
FBUS	Success	Analyzing predefomadm/02/03
FBUS	Success	Analyzing predefomadm/02/04
FBUS	Success	Analyzing predefjava
FBUS	Success	Analyzing predefjava/predefcollections
FBUS	Success	Analyzing predefjava/predefgames
FBUS	Success	Analyzing predefhiddenfolder
FBUS	Success	Analyzing predefhiddenfolder/predefWVPreload
FBUS	Success	Analyzing predefhiddenfolder/predefdrmrights
FBUS	Success	Analyzing predefhiddenfolder/predefpbings
FBUS	Success	Analyzing predefhiddenfolder/predefvoicemodels
FBUS	Success	Analyzing predefhiddenfolder/predefvoiceprompts
FBUS	Success	Analyzing predefhiddenfolder/predefwvlogos
FBUS	Success	Analyzing predefhiddenfolder/predefmenus
FBUS	Success	Analyzing predefmenuapps
FBUS	Success	Analyzing predefmenuapps/predefemail
FBUS	Success	Analyzing predefmenuapps/predefsms
FBUS	Success	Analyzing predefmenuapps/predefimclient
FBUS	Success	Analyzing predefmessages
FBUS	Success	Analyzing predefmessages/predefinbox
FBUS	Success	Analyzing predefmessages/predefoutbox
FBUS	Success	Analyzing predefmessages/predefsent
FBUS	Success	Analyzing predefmessages/predefdrafts
FBUS	Success	Analyzing predeftemp
FBUS	Success	Analyzing predeffiledownload
FBUS	Success	Analyzing HTTP
FBUS	Success	Analyzing HTTP/opmenu
FBUS	Success	Analyzing HTTP/cookie
FBUS	Success	Analyzing HTTP/cache
FBUS	Success	Analyzing predefsyncml
FBUS	Success	Analyzing predefcalendar
FBUS	Success	Analyzing serviceapplication
FBUS	Success	Reading User Content Package r
FBUS	Success	Reading FIM_perm_id
FBUS	Success	Reading FIM_fixed_id
FBUS	Success	Reading Acrobatics.mid
FBUS	Success	Reading Caribbean.mid
FBUS	Success	Reading Cycle.mid
FBUS	Success	Reading Espionage.mid
FBUS	Success	Reading Farewell.mid
FBUS	Success	Reading Jig.mid
FBUS	Success	Reading Low.mid
FBUS	Success	Reading Nokia tune.mid
FBUS	Success	Reading Nocturnal.mid
FBUS	Success	Reading Repose.mid
FBUS	Success	Reading River cruise.mid
FBUS	Success	Reading Swept away.mid
FBUS	Success	Reading Robotique.mp3
FBUS	Success	Reading Playing_tricks.mp3
FBUS	Success	Reading Fete.mp3
FBUS	Success	Reading Cackle.mp3
FBUS	Success	Reading Graffiti.mp3
FBUS	Success	Reading Message 1.mid
FBUS	Success	Reading Message 2.mid

Test Case CFT-IMO-08 Micro Systemation .XRY Version 3.6			
	FBUS	Success	Reading Message 3.mid
	FBUS	Success	Reading Message 4.mid
	FBUS	Success	Reading Splash.jpg
	FBUS	Success	Reading Flower.jpg
	FBUS	Success	Reading Marbles.jpg
	FBUS	Success	Reading Mountains.jpg
	FBUS	Success	Reading Pink.jpg
	FBUS	Success	Reading Colors.jpg
	FBUS	Success	Reading Golden Years.jpg
	FBUS	Success	Reading Goldfish.jpg
	FBUS	Success	Reading Vintage.jpg
	FBUS	Success	Reading Cells.gif
	FBUS	Success	Reading Neon.gif
	FBUS	Success	Reading Clip-art05.gif
	FBUS	Success	Reading Clip-art06.gif
	FBUS	Success	Reading Clip-art01.gif
	FBUS	Success	Reading Clip-art02.gif
	FBUS	Success	Reading Clip-art03.gif
	FBUS	Success	Reading Clip-art04.gif
	FBUS	Success	Reading Clip-art07.gif
	FBUS	Success	Reading Clip-art08.gif
	FBUS	Success	Reading Clip-art09.gif
	FBUS	Success	Reading Clip-art10.gif
	FBUS	Success	Reading Frame01.gif
	FBUS	Success	Reading Frame02.gif
	FBUS	Success	Reading Frame03.gif
	FBUS	Success	Reading Frame04.gif
	FBUS	Success	Reading Frame05.gif
	FBUS	Success	Reading Frame06.gif
	FBUS	Success	Reading Frame07.gif
	FBUS	Success	Reading Frame08.gif
	FBUS	Success	Reading Frame09.gif
	FBUS	Success	Reading Frame10.gif
	FBUS	Success	Reading Pres_01.gif
	FBUS	Success	Reading Pres_02.gif
	FBUS	Success	Reading Pres_04.gif
	FBUS	Success	Reading Pres_03.gif
	FBUS	Success	Reading Pres_05.gif
	FBUS	Success	Reading Pres_06.gif
	FBUS	Success	Reading Pres_07.gif
	FBUS	Success	Reading Pres_08.gif
	FBUS	Success	Reading Pres_09.gif
	FBUS	Success	Reading Pres_10.gif
	FBUS	Success	Reading Window.nth
	FBUS	Success	Reading Circle.nth
	FBUS	Success	Reading Basic.nth
	FBUS	Success	Reading themes.ini
	FBUS	Success	Reading theme_descriptor.xml
	FBUS	Success	Reading Window_ss.gif
	FBUS	Success	Reading Window_wp.jpg
	FBUS	Success	Reading Window_wp_mini.jpg
	FBUS	Success	Reading Nokia_tune.mid
	FBUS	Success	Reading large_thumbnail.gif
	FBUS	Success	Reading small_thumbnail.gif
	FBUS	Success	Reading Window_bk_mini.png
	FBUS	Success	Reading Window_bk.png
	FBUS	Success	Reading Sunset.jpg
	FBUS	Success	Reading emma.jpg
	FBUS	Success	Reading Video000.3gp
	FBUS	Success	Reading Video001.3gp
	FBUS	Success	Reading chare.wav
	FBUS	Success	Reading french.mp3
	FBUS	Success	Reading SuiteConf.xml
	FBUS	Success	Reading bootstrap_app_no_network
	FBUS	Success	Reading USER_DATA
	FBUS	Success	Reading HLOG
	FBUS	Success	Reading 01
	FBUS	Success	Reading 01
	FBUS	Success	Reading 01
	FBUS	Success	Reading 01



Test Case CFT-IMO-08 Micro Systemation .XRY Version 3.6							
	FBUS	Success	Reading 01				
	FBUS	Success	Reading HLOG				
	FBUS	Success	Reading 01				
	FBUS	Success	Reading 01				
	FBUS	Success	Reading 01				
	FBUS	Success	Reading 01				
	FBUS	Success	Reading 01				
	FBUS	Success	Reading kqq_en_zh-CN_zh-TW.jad				
	FBUS	Success	Reading kqq_en_zh-CN_zh-TW.jar				
	FBUS	Success	Reading soli_en_zh-CN_zh-TW.jad				
	FBUS	Success	Reading soli_en_zh-CN_zh-TW.jar				
	FBUS	Success	Reading gtour_en_zh-CN_zh-TW.jad				
	FBUS	Success	Reading gtour_en_zh-CN_zh-TW.jar				
	FBUS	Success	Reading pipe_en_zh-CN_zh-TW.jad				
	FBUS	Success	Reading pipe_en_zh-CN_zh-TW.jar				
	FBUS	Success	Reading _jmr_suite_list_file.jmr				
	FBUS	Success	Reading _jmr_suite_attrib_file.jmr				
	FBUS	Success	Reading _jmr_suite_contents_file.jmr				
	FBUS	Success	Reading jps_connection_registry_file.reg				
	FBUS	Success	Reading jps_timer_registry_file.reg				
	FBUS	Success	Reading UPF_General_data				
	FBUS	Success	Reading UPF_Silent_data				
	FBUS	Success	Reading UPF_Meeting_data				
	FBUS	Success	Reading UPF_Outdoor_data				
	FBUS	Success	Reading UPF_Mystyle1_data				
	FBUS	Success	Reading UPF_Mystyle2_data				
	FBUS	Success	Reading wv1.gif				
	FBUS	Success	Reading wv2.gif				
	FBUS	Success	Reading wv3.gif				
	FBUS	Success	Reading wv4.gif				
	FBUS	Success	Reading PBImp.jpeg				
	FBUS	Success	Reading PBImp000.jpeg				
	FBUS	Success	Reading emcl3_en_zh-CN_zh-TW.jad				
	FBUS	Success	Reading emcl3_en_zh-CN_zh-TW.jar				
	FBUS	Success	Reading 6 34631B47250 22+12404213651 *				
		TYPE=PLMN1					
	FBUS	Success	Reading C 34631DE1250 22+12404213651 *				
		TYPE=PLMN1					
	FBUS	Success	Reading 9 34631C7A250 22+12404213651 *				
		TYPE=PLMN1					
	FBUS	Success	Reading 1 34630EE6210 202404470381 * TYPE=PLMN1				
	FBUS	Success	Reading 2 3463109B210 202404470381 * TYPE=PLMN1				
	FBUS	Success	Reading 3 346315A2210 202404470381 * TYPE=PLMN1				
	FBUS	Success	Reading CYRL2WfUgTu4D70cy.hdr				
	FBUS	Success	Reading CYRL2WfUgTu4D70cy.dat				
	FBUS	Success	Reading C2LZoveTPg9GqyzDF.hdr				
	FBUS	Success	Reading C2LZoveTPg9GqyzDF.dat				
	FBUS	Success	Disconnecting				
	MAIN	Success	FBUS (3.1) completed successfully				
	MAIN	Success	Processing completed successfully.				
	MAIN	Success	Total processing time: 10 minutes, 11 seconds				
	MAIN	Success	13 items read to General Information folder				
	MAIN	Success	17 items read to Contacts folder				
	MAIN	Success	5 items read to Calendar folder				
	MAIN	Success	2 items read to Notes folder				
	MAIN	Success	36 items read to SMS folder				
	MAIN	Success	6 items read to MMS folder				
	MAIN	Success	56 items read to Pictures folder				
	MAIN	Success	2 items read to Videos folder				
	MAIN	Success	24 items read to Audio folder				
	MAIN	Success	48 items read to Files folder				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-52 Device Log file output.</td> <td>as expected</td> </tr> </tbody> </table>			Assertion & Expected Result	Actual Result	A_IMO-52 Device Log file output.	as expected
Assertion & Expected Result	Actual Result						
A_IMO-52 Device Log file output.	as expected						
Analysis:	Expected results achieved						

## 5.2.17 CFT-IMO-09 (Nokia 6101)

Test Case CFT-IMO-09 Micro Systemation .XRY Version 3.6																																																																																	
Case Summary:	CFT-IMO-09 Acquire mobile device internal memory and review data containing foreign language characters.																																																																																
Assertions:	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>																																																																																
Tester Name:	rpa																																																																																
Test Host:	Morrisy																																																																																
Test Date:	Fri Apr 11 11:26:14 EDT 2008																																																																																
Device:	Nokia_6101																																																																																
Source Setup:	<p>OS: WIN XP Interface: cable</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <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> <tr> <td></td> <td>Incoming SMS - Read</td> </tr> <tr> <td></td> <td>Incoming SMS - Unread</td> </tr> <tr> <td></td> <td>Incoming SMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing SMS</td> </tr> <tr> <td></td> <td>Outgoing SMS - Deleted</td> </tr> <tr> <td></td> <td>Incoming EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Unread</td> </tr> <tr> <td></td> <td>Incoming Foreign EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing EMS</td> </tr> <tr> <td></td> <td>Outgoing EMS - Deleted</td> </tr> <tr> <td>MMS Messages</td> <td></td> </tr> <tr> <td></td> <td>Incoming Audio</td> </tr> <tr> <td></td> <td>Incoming Image</td> </tr> <tr> <td></td> <td>Incoming Video</td> </tr> <tr> <td></td> <td>Outgoing Audio</td> </tr> <tr> <td></td> <td>Outgoing Image</td> </tr> <tr> <td></td> <td>Outgoing Video</td> </tr> </tbody> </table>	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
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Test Case CFT-IMO-09 Micro Systemation .XRY Version 3.6															
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Stand-alone data files															
	Audio														
	Audio - Deleted														
	Image														
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	Video														
	Video - Deleted														
Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Fri Apr 11 11:26:14 EDT 2008  Acquisition finished: Fri Apr 11 11:35:11 EDT 2008</p> <p>Complete representation of known data via generated reports was successful  Complete representation of known data via preview-pane was successful  Foreign character Address book entries were acquired and properly displayed  Foreign character text messages were acquired and properly displayed</p>														
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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-53 Acquisition of address book entries containing foreign language characters.</td> <td>as expected</td> </tr> <tr> <td>A_IMO-54 Acquisition of outgoing text messages containing foreign language characters.</td> <td>as expected</td> </tr> </tbody> </table>	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-53 Acquisition of address book entries containing foreign language characters.	as expected	A_IMO-54 Acquisition of outgoing text messages containing foreign language characters.	as expected				
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A_IMO-53 Acquisition of address book entries containing foreign language characters.	as expected														
A_IMO-54 Acquisition of outgoing text messages containing foreign language characters.	as expected														
Analysis:	Expected results achieved														

## 5.2.18 CFT-IMO-11 (Nokia 6101)

Test Case CFT-IMO-11 Micro Systemation .XRY Version 3.6																																																																																									
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																																																																																								
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	Video - Deleted								
Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Fri Apr 11 11:48:13 EDT 2008  Acquisition finished: Fri Apr 11 12:01:34 EDT 2008</p> <p>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</p> <p><b>Notes:</b>  SHAl and MD5 hashes were successfully calculated for pictures, video, audio and stand-alone files.</p>								
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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								
Analysis:	Expected results achieved								

## 5.2.19 CFT-SIM-01 (T-Mobile SIM)

Test Case CFT-SIM-01 Micro Systemation .XRY Version 3.6																													
Case Summary:	CFT-SIM-01 Acquire SIM over supported interfaces (e.g., PC/SC reader, proprietary reader).																												
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).																												
Tester Name:	rpa																												
Test Host:	Morrisy																												
Test Date:	Thu Apr 3 12:32:32 EDT 2008																												
Device:	TMOBILE_SIM																												
Source Setup:	OS: WIN XP Interface: USB																												
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	Incoming Foreign EMS - Read																												
	Incoming EMS - Deleted																												
Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 12:32:32 EDT 2008 Acquisition finished: Thu Apr 3 12:36:57 EDT 2008  Media connectivity was established via supported interface																												
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_SIM-23 SIM connectivity via supported interfaces.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_SIM-23 SIM connectivity via supported interfaces.	as expected																								
Assertion & Expected Result	Actual Result																												
A_SIM-23 SIM connectivity via supported interfaces.	as expected																												
Analysis:	Expected results achieved																												

## 5.2.20 CFT-SIM-02 (T-Mobile SIM)

Test Case CFT-SIM-02 Micro Systemation .XRY Version 3.6																															
Case Summary:	CFT-SIM-02 Attempt acquisition of a non-supported SIM.																														
Assertions:	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.																														
Tester Name:	rpa																														
Test Host:	Morrisy																														
Test Date:	Thu Apr 3 12:38:38 EDT 2008																														
Device:	TMOBILE_SIM																														
Source Setup:	OS: WIN XP Interface: USB <table border="1" data-bbox="423 592 1312 999"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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> </tbody> </table>	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
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Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 12:38:38 EDT 2008 Acquisition finished: Thu Apr 3 12:40:04 EDT 2008  Identification of non-supported media was successful																														
Results:	<table border="1" data-bbox="423 1241 1248 1293"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_SIM-24 Identification of non-supported SIMs.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_SIM-24 Identification of non-supported SIMs.	as expected																										
Assertion & Expected Result	Actual Result																														
A_SIM-24 Identification of non-supported SIMs.	as expected																														
Analysis:	Expected results achieved																														

## 5.2.21 CFT-SIM-03 (T-Mobile SIM)

Test Case CFT-SIM-03 Micro Systemation .XRY Version 3.6																															
Case Summary:	CFT-SIM-03 Begin SIM acquisition and interrupt connectivity by interface disengagement.																														
Assertions:	<p>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).</p> <p>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.</p>																														
Tester Name:	rpa																														
Test Host:	Morrisy																														
Test Date:	Thu Apr 3 12:41:18 EDT 2008																														
Device:	TMOBILE_SIM																														
Source Setup:	<p>OS: WIN XP Interface: USB</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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> </tbody> </table>	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
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	Incoming Foreign EMS - Read																														
	Incoming EMS - Deleted																														
Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 12:41:18 EDT 2008 Acquisition finished: Thu Apr 3 12:42:43 EDT 2008</p> <p>Media connectivity was established via supported interface Media acquisition disruption notification was successful</p>																														
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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> </tbody> </table>	Assertion & Expected Result	Actual Result	A_SIM-23 SIM connectivity via supported interfaces.	as expected	A_SIM-25 Notification of SIM acquisition disruption.	as expected																								
Assertion & Expected Result	Actual Result																														
A_SIM-23 SIM connectivity via supported interfaces.	as expected																														
A_SIM-25 Notification of SIM acquisition disruption.	as expected																														
Analysis:	Expected results achieved																														



## 5.2.22 CFT-SIM-04 (T-Mobile SIM)

Test Case CFT-SIM-04 Micro Systemation .XRY Version 3.6																															
Case Summary:	CFT-SIM-04 Attempt acquisition on a password-protected SIM.																														
Assertions:	<p>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).</p> <p>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.</p>																														
Tester Name:	rpa																														
Test Host:	Morrisy																														
Test Date:	Thu Apr 3 12:44:22 EDT 2008																														
Device:	TMOBILE_SIM																														
Source Setup:	<p>OS: WIN XP Interface: USB</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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> </tbody> </table>	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
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	Incoming SMS - Unread																														
	Incoming Foreign EMS - Read																														
	Incoming EMS - Deleted																														
Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 12:44:22 EDT 2008 Acquisition finished: Thu Apr 3 12:45:47 EDT 2008</p> <p>Media connectivity was established via supported interface Ability to enter PIN on protected media before acquisition was successful</p>																														
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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> </tbody> </table>	Assertion & Expected Result	Actual Result	A_SIM-23 SIM connectivity via supported interfaces.	as expected	A_SIM-26 Password entry before acquisition for protected SIMs.	as expected																								
Assertion & Expected Result	Actual Result																														
A_SIM-23 SIM connectivity via supported interfaces.	as expected																														
A_SIM-26 Password entry before acquisition for protected SIMs.	as expected																														
Analysis:	Expected results achieved																														

### 5.2.23 CFT-SIM-05 (T-Mobile SIM)

Test Case CFT-SIM-05 Micro Systemation .XRY Version 3.6																											
Case Summary:	CFT-SIM-05 Acquire SIM internal memory and review reported data via the preview-pane or generated reports for readability.																										
Assertions:	<p>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).</p> <p>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.</p>																										
Tester Name:	rpa																										
Test Host:	Morrisy																										
Test Date:	Thu Apr 3 12:47:19 EDT 2008																										
Device:	TMOBILE_SIM																										
Source Setup:	OS: WIN XP Interface: USB <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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>Last Numbers Dialed (LND)</td> </tr> <tr> <td>Text Messages</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> </tbody> </table>	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
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	Incoming EMS - Deleted																										
Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 12:47:19 EDT 2008 Acquisition finished: Thu Apr 3 12:48:10 EDT 2008  Media connectivity was established via supported interface Readability and completeness of acquired data was successful																										
Results:	<table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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> </tbody> </table>	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																				
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																										
Analysis:	Expected results achieved																										

## 5.2.24 CFT-SIM-06 (T-Mobile SIM)

Test Case CFT-SIM-06 Micro Systemation .XRY Version 3.6																											
Case Summary:	CFT-SIM-06 Acquire SIM internal memory and review reported subscriber and equipment related information (i.e., SPN, ICCID, IMSI, MSISDN).																										
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>																										
Tester Name:	rpa																										
Test Host:	Morrisy																										
Test Date:	Thu Apr 3 12:49:21 EDT 2008																										
Device:	TMOBILE_SIM																										
Source Setup:	OS: WIN XP Interface: USB <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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>Last Numbers Dialed (LND)</td> </tr> <tr> <td>Text Messages</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> </tbody> </table>	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
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	Incoming SMS - Unread																										
	Incoming Foreign EMS - Read																										
	Incoming EMS - Deleted																										
Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 12:49:21 EDT 2008 Acquisition finished: Thu Apr 3 12:52:03 EDT 2008  Media connectivity was established via supported interface Readability and completeness of acquired data was successful All subscriber-related data (i.e., SPN, ICCID, IMSI, MSISDN) was acquired																										
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A_SIM-29 Acquisition of ICCID.	as expected																										
A_SIM-30 Acquisition of IMSI.	as expected																										

Test Case CFT-SIM-06 Micro Systemation .XRY Version 3.6		
	A_SIM-31 Acquisition of MSISDN.	as expected
Analysis:	Expected results achieved	

## 5.2.25 CFT-SIM-07 (T-Mobile SIM)

Test Case CFT-SIM-07 Micro Systemation .XRY Version 3.6																															
Case Summary:	CFT-SIM-07 Acquire SIM internal memory and review reported Abbreviated Dialing Numbers (ADNs).																														
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p>																														
Tester Name:	rpa																														
Test Host:	Morrisy																														
Test Date:	Thu Apr 3 12:58:47 EDT 2008																														
Device:	TMOBILE_SIM																														
Source Setup:	<p>OS: WIN XP Interface: USB</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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> </tbody> </table>	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
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	Incoming EMS - Deleted																														
Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 12:58:47 EDT 2008 Acquisition finished: Thu Apr 3 13:02:16 EDT 2008</p> <p>Media connectivity was established via supported interface Readability and completeness of acquired data was successful All ADNs were acquired</p>																														
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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>as expected</td> </tr> </tbody> </table>	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.	as expected																						
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A_SIM-27 Readability and completeness of acquired data via supported reports.	as expected																														
A_SIM-32 Acquisition of ADNs.	as expected																														
Analysis:	Expected results achieved																														

## 5.2.26 CFT-SIM-08 (T-Mobile SIM)

Test Case CFT-SIM-08 Micro Systemation .XRY Version 3.6																															
Case Summary:	CFT-SIM-08 Acquire SIM internal memory and review reported Last Numbers Dialed (LND).																														
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p>																														
Tester Name:	rpa																														
Test Host:	Morrisy																														
Test Date:	Thu Apr 3 13:03:20 EDT 2008																														
Device:	TMOBILE_SIM																														
Source Setup:	<p>OS: WIN XP Interface: USB</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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> </tbody> </table>	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
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	Incoming SMS - Deleted																														
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	Incoming Foreign EMS - Read																														
	Incoming EMS - Deleted																														
Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 13:03:20 EDT 2008 Acquisition finished: Thu Apr 3 13:04:13 EDT 2008</p> <p>Media connectivity was established via supported interface Readability and completeness of acquired data was successful LNDs were acquired</p>																														
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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> </tbody> </table>	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-33 Acquisition of LNDs.	as expected																						
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A_SIM-27 Readability and completeness of acquired data via supported reports.	as expected																														
A_SIM-33 Acquisition of LNDs.	as expected																														
Analysis:	Expected results achieved																														

## 5.2.27 CFT-SIM-09 (T-Mobile SIM)

Test Case CFT-SIM-09 Micro Systemation .XRY Version 3.6																											
Case Summary:	CFT-SIM-09 Acquire SIM internal memory and review reported text messages (i.e., SMS, EMS).																										
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p>																										
Tester Name:	rpa																										
Test Host:	Morrisy																										
Test Date:	Thu Apr 3 13:05:15 EDT 2008																										
Device:	TMOBILE_SIM																										
Source Setup:	<p>OS: WIN XP Interface: USB</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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>Last Numbers Dialed (LND)</td> </tr> <tr> <td>Text Messages</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> </tbody> </table>	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
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	Incoming SMS - Unread																										
	Incoming Foreign EMS - Read																										
	Incoming EMS - Deleted																										
Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 13:05:15 EDT 2008 Acquisition finished: Thu Apr 3 13:06:41 EDT 2008</p> <p>Media connectivity was established via supported interface Readability and completeness of acquired data was successful ALL text messages (SMS, EMS) were acquired</p>																										
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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> </tbody> </table>	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-34 Acquisition of SMS messages.	as expected	A_SIM-35 Acquisition of EMS messages.	as expected																
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A_SIM-34 Acquisition of SMS messages.	as expected																										
A_SIM-35 Acquisition of EMS messages.	as expected																										
Analysis:	Expected results achieved																										

## 5.2.28 CFT-SIM-10 (T-Mobile SIM)

Test Case CFT-SIM-10 Micro Systemation .XRY Version 3.6																											
Case Summary:	CFT-SIM-10 Acquire SIM internal memory and review reported location related data (i.e., LOCI, GPRSLOCI).																										
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p> <p>A_SIM-37 If a cellular forensic tool successfully completes acquisition of the target SIM then all location related data (i.e., GPRSLOCI) shall be presented in a human-readable format without modification.</p>																										
Tester Name:	rpa																										
Test Host:	Morrisy																										
Test Date:	Thu Apr 3 13:07:17 EDT 2008																										
Device:	TMOBILE_SIM																										
Source Setup:	<p>OS: WIN XP Interface: USB</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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>Last Numbers Dialed (LND)</td> </tr> <tr> <td>Text Messages</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> </tbody> </table>	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
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	Incoming Foreign EMS - Read																										
	Incoming EMS - Deleted																										
Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 13:07:17 EDT 2008 Acquisition finished: Thu Apr 3 13:08:37 EDT 2008</p> <p>Media connectivity was established via supported interface Readability and completeness of acquired data was successful LOCI data was acquired GPRSLOCI data was acquired</p>																										
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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-36 Acquisition of LOCI information.</td> <td>as expected</td> </tr> <tr> <td>A_SIM-37 Acquisition of GPRSLOCI information.</td> <td>as expected</td> </tr> </tbody> </table>	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-36 Acquisition of LOCI information.	as expected	A_SIM-37 Acquisition of GPRSLOCI information.	as expected																
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A_SIM-36 Acquisition of LOCI information.	as expected																										
A_SIM-37 Acquisition of GPRSLOCI information.	as expected																										
Analysis:	Expected results achieved																										



## 5.2.29 CFT-SIMO-01 (T-Mobile SIM)

Test Case CFT-SIMO-01 Micro Systemation .XRY Version 3.6																																	
Case Summary:	CFT-SIMO-01 Acquire SIM internal memory and review acquired data via supported generated report formats.																																
Assertions:	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.																																
Tester Name:	rpa																																
Test Host:	Morrisy																																
Test Date:	Fri Apr 4 09:34:17 EDT 2008																																
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Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Fri Apr 4 09:34:17 EDT 2008 Acquisition finished: Fri Apr 4 09:38:27 EDT 2008</p> <p>Complete representation of known data via generated reports was successful</p>																																
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Assertion & Expected Result	Actual Result																																
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Analysis:	Expected results achieved																																

### 5.2.30 CFT-SIMO-02 (T-Mobile SIM)

Test Case CFT-SIMO-02 Micro Systemation .XRY Version 3.6																																	
Case Summary:	CFT-SIMO-02 Acquire SIM internal memory and review acquired data via the preview-pane.																																
Assertions:	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.																																
Tester Name:	rpa																																
Test Host:	Morrisy																																
Test Date:	Fri Apr 4 09:43:50 EDT 2008																																
Device:	TMOBILE_SIM																																
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Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Fri Apr 4 09:43:50 EDT 2008 Acquisition finished: Fri Apr 4 09:44:54 EDT 2008  Complete representation of known data via preview-pane was successful																																
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A_SIMO-59 Comparison of known SIM data elements via preview-pane.	as expected																																
Analysis:	Expected results achieved																																

### 5.2.31 CFT-SIMO-03 (T-Mobile SIM)

Test Case CFT-SIMO-03 Micro Systemation .XRY Version 3.6																											
Case Summary:	CFT-SIMO-03 Acquire SIM internal memory and compare acquired data via the preview-pane and supported generated reports.																										
Assertions:	<p>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.</p> <p>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.</p> <p>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.</p>																										
Tester Name:	rpa																										
Test Host:	Morrisy																										
Test Date:	Fri Apr 4 09:56:06 EDT 2008																										
Device:	TMOBILE_SIM																										
Source Setup:	OS: WIN XP Interface: USB <table border="1" data-bbox="418 808 1307 1213"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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>Last Numbers Dialed (LND)</td> </tr> <tr> <td>Text Messages</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> </tbody> </table>	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
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	Incoming EMS - Deleted																										
Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Fri Apr 4 09:56:06 EDT 2008 Acquisition finished: Fri Apr 4 09:59:10 EDT 2008  Complete representation of known data via generated reports was successful Complete representation of known data via preview-pane was successful																										
Results:	<table border="1" data-bbox="418 1480 1383 1680"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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> </tbody> </table>	Assertion & Expected Result	Actual Result	A_SIMO-58 Comparison of known SIM data elements via generated reports.	as expected	A_SIMO-59 Comparison of known SIM data elements via preview-pane.	as expected	A_SIMO-60 Compare generated reports and preview-pane views for SIM acquisition.	as expected																		
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A_SIMO-60 Compare generated reports and preview-pane views for SIM acquisition.	as expected																										
Analysis:	Expected results achieved																										

## 5.2.32 CFT-SIMO-04 (T-Mobile SIM)

Test Case CFT-SIMO-04 Micro Systemation .XRY Version 3.6																															
Case Summary:	CFT-SIMO-04 After a successful SIM internal memory acquisition, after the case file via third party means and attempt to re-open the case.																														
Assertions:	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.																														
Tester Name:	rpa																														
Test Host:	Morrisy																														
Test Date:	Fri Apr 4 10:00:20 EDT 2008																														
Device:	TMOBILE_SIM																														
Source Setup:	OS: WIN XP Interface: USB <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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> </tbody> </table>	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
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	Incoming Foreign EMS - Read																														
	Incoming EMS - Deleted																														
Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Fri Apr 4 10:00:20 EDT 2008 Acquisition finished: Fri Apr 4 10:01:43 EDT 2008  Notification of modified case data was successful  <b>Notes:</b> Case File Encryption has to be selected before Acquisition																														
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Assertion & Expected Result	Actual Result																														
A_SIMO-61 Notification of modified SIM case data.	as expected																														
Analysis:	Expected results achieved																														

### 5.2.33 CFT-SIMO-05 (T-Mobile SIM)

Test Case CFT-SIMO-05 Micro Systemation .XRY Version 3.6																																	
Case Summary:	CFT-SIMO-05 Acquire SIM internal memory and review reports for recoverable deleted data.																																
Assertions:	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>																																
Tester Name:	rpa																																
Test Host:	Morrisy																																
Test Date:	Fri Apr 4 10:23:58 EDT 2008																																
Device:	TMOBILE_SIM																																
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	Incoming SMS - Deleted																																
	Incoming SMS - Unread																																
	Incoming Foreign EMS - Read																																
	Incoming EMS - Deleted																																
Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Fri Apr 4 10:23:58 EDT 2008 Acquisition finished: Fri Apr 4 10:25:08 EDT 2008</p> <p>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</p>																																
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A_SIMO-63 Recovery of deleted EMS messages.	as expected																																

Test Case CFT-SIMO-05 Micro Systemation .XRY Version 3.6	
Analysis:	Expected results achieved

### 5.2.34 CFT-SIMO-06 (T-Mobile SIM)

Test Case CFT-SIMO-06 Micro Systemation .XRY Version 3.6																																																																									
Case Summary:	CFT-SIMO-06 Acquire SIM internal memory and review generated log files.																																																																								
Assertions:	A_SIMO-64 If a cellular forensic tool supports creation of log files then the application should present the log files in a human-readable format outlining the acquisition process.																																																																								
Tester Name:	rpa																																																																								
Test Host:	Morrisy																																																																								
Test Date:	Fri Apr 4 10:40:22 EDT 2008																																																																								
Device:	TMOBILE_SIM																																																																								
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Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Fri Apr 4 10:40:22 EDT 2008 Acquisition finished: Fri Apr 4 10:43:03 EDT 2008  Creation of complete and human-readable log files was successful  <b>Notes:</b>  XRY Log  <table> <thead> <tr> <th>Module</th> <th>Status</th> <th>Message</th> </tr> <tr> <th>-----</th> <th>-----</th> <th>-----</th> </tr> </thead> <tbody> <tr> <td>MAIN</td> <td>Success</td> <td>Initiating Process</td> </tr> <tr> <td>MAIN</td> <td>Success</td> <td>.XRY Version 3.6</td> </tr> <tr> <td>MAIN</td> <td>Success</td> <td>Connected to OMNIKEY CardMan 6121 0 []</td> </tr> <tr> <td>MAIN</td> <td>Success</td> <td>Device Name: SIM Card</td> </tr> <tr> <td>MAIN</td> <td>Success</td> <td>Starting process of SIM (3.6)</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Connecting</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Connected with T0 Protocol</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Detecting SIM type</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Identified as SIM Card</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Passed PIN code</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Analyzing MF folder</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Reading General Information</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Reading General Information</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Analyzing GSM Folder</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Reading General Information</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Reading Network Information</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Reading Network Information PLMN Selector</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Reading Network Information Forbidden PLMNs</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Analyzing Telecom Folder</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Reading SMS</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Read 30 positions, 13 used</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Reading General Information (MSISDN numbers)</td> </tr> </tbody> </table>	Module	Status	Message	-----	-----	-----	MAIN	Success	Initiating Process	MAIN	Success	.XRY Version 3.6	MAIN	Success	Connected to OMNIKEY CardMan 6121 0 []	MAIN	Success	Device Name: SIM Card	MAIN	Success	Starting process of SIM (3.6)	SIM	Success	Connecting	SIM	Success	Connected with T0 Protocol	SIM	Success	Detecting SIM type	SIM	Success	Identified as SIM Card	SIM	Success	Passed PIN code	SIM	Success	Analyzing MF folder	SIM	Success	Reading General Information	SIM	Success	Reading General Information	SIM	Success	Analyzing GSM Folder	SIM	Success	Reading General Information	SIM	Success	Reading Network Information	SIM	Success	Reading Network Information PLMN Selector	SIM	Success	Reading Network Information Forbidden PLMNs	SIM	Success	Analyzing Telecom Folder	SIM	Success	Reading SMS	SIM	Success	Read 30 positions, 13 used	SIM	Success	Reading General Information (MSISDN numbers)
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SIM	Success	Read 30 positions, 13 used																																																																							
SIM	Success	Reading General Information (MSISDN numbers)																																																																							

Test Case CFT-SIMO-06 Micro Systemation .XRY Version 3.6							
	SIM	Success	Read 4 positions, 1 used				
	SIM	Success	Reading Network Information				
	SIM	Success	Reading Contacts				
	SIM	Success	Read 250 positions, 10 used				
	SIM	Success	Reading Contacts (fixed numbers)				
	SIM	Success	Read 15 positions, 0 used				
	SIM	Success	Reading Calls (last dialled)				
	SIM	Success	Read 10 positions, 3 used				
	SIM	Success	Attempting to read 02 IMEI				
	SIM	Success	No IMEI Found				
	MAIN	Success	SIM (3.6) completed successfully				
	MAIN	Success	Processing completed successfully.				
	MAIN	Success	Total processing time: 0 minutes, 7 seconds				
	MAIN	Success	9 items read to General Information folder				
	MAIN	Success	10 items read to Contacts folder				
	MAIN	Success	3 items read to Calls folder				
	MAIN	Success	12 items read to SMS folder				
	MAIN	Success	13 items read to Network Information folder				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_SIMO-64 SIM log file output.</td> <td>as expected</td> </tr> </tbody> </table>			Assertion & Expected Result	Actual Result	A_SIMO-64 SIM log file output.	as expected
Assertion & Expected Result	Actual Result						
A_SIMO-64 SIM log file output.	as expected						
Analysis:	Expected results achieved						



## 5.2.35 CFT-SIMO-07 (T-Mobile SIM)

Test Case CFT-SIMO-07 Micro Systemation .XRY Version 3.6																																	
Case Summary:	CFT-SIMO-07 Acquire SIM internal memory and review data containing foreign language characters.																																
Assertions:	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>																																
Tester Name:	rpa																																
Test Host:	Morrisy																																
Test Date:	Fri Apr 4 12:43:30 EDT 2008																																
Device:	TMOBILE_SIM																																
Source Setup:	<p>OS: WIN XP Interface: USB</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <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> </tbody> </table>	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
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Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Fri Apr 4 12:43:30 EDT 2008 Acquisition finished: Fri Apr 4 12:44:21 EDT 2008</p> <p>Complete representation of known data via generated reports was successful Complete representation of known data via preview-pane was successful ADNs containing foreign characters were acquired and properly displayed Text messages containing foreign characters were acquired and properly displayed</p>																																
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A_SIMO-65 Acquisition of ADNs containing foreign language characters.	as expected																																
A_SIMO-66 Acquisition of text messages containing foreign	as expected																																

Test Case CFT-SIMO-07 Micro Systemation .XRY Version 3.6	
	language characters.
Analysis:	Expected results achieved

### 5.2.36 CFT-SIMO-08 (T-Mobile SIM)

Test Case CFT-SIMO-08 Micro Systemation .XRY Version 3.6																															
Case Summary:	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.																														
Assertions:	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.																														
Tester Name:	rpa																														
Test Host:	Morrisy																														
Test Date:	Fri Apr 4 12:46:34 EDT 2008																														
Device:	TMOBILE_SIM																														
Source Setup:	OS: WIN XP Interface: USB																														
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	Incoming SMS - Unread																														
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	Incoming EMS - Deleted																														
Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Fri Apr 4 12:46:34 EDT 2008 Acquisition finished: Fri Apr 4 12:48:08 EDT 2008  Remaining number of PIN attempts properly displayed was successful																														
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Assertion & Expected Result	Actual Result																														
A_SIMO-67 Display of remaining number of PIN attempts.	as expected																														
Analysis:	Expected results achieved																														

## 5.2.37 CFT-SIMO-09 (T-Mobile SIM)

Test Case CFT-SIMO-09 Micro Systemation .XRY Version 3.6																																	
Case Summary:	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.																																
Assertions:	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.																																
Tester Name:	rpa																																
Test Host:	Morrisy																																
Test Date:	Fri Apr 4 14:11:34 EDT 2008																																
Device:	TMOBILE_SIM																																
Source Setup:	OS: WIN XP Interface: USB																																
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Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Fri Apr 4 14:11:34 EDT 2008 Acquisition finished: Fri Apr 4 14:12:44 EDT 2008  Remaining number of PUK attempts properly displayed was successful																																
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Assertion & Expected Result	Actual Result																																
A_SIMO-68 Display of remaining number of PUK attempts.	as expected																																
Analysis:	Expected results achieved																																

## 5.2.38 CFT-IM-01 (Motorola RAZR V3)

Test Case CFT-IM-01 Micro Systemation .XRY Version 3.6																																																																																															
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:	Wed Apr 9 08:12:43 EDT 2008																																																																																														
Device:	Motorola_RAZR_V3																																																																																														
Source Setup:	OS: WIN XP Interface: cable, Bluetooth																																																																																														
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Test Case CFT-IM-01 Micro Systemation .XRY Version 3.6					
Highlights:	<p>Acquisition started: Wed Apr 9 08:12:43 EDT 2008  Acquisition finished: Wed Apr 9 08:19:21 EDT 2008</p> <p>Device connectivity was established via supported interface (i.e., cable, Bluetooth)</p> <p><b>Notes:</b>  IrDA acquisition not supported.</p>				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IM-01 Device connectivity via supported interfaces.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IM-01 Device connectivity via supported interfaces.	as expected
Assertion & Expected Result	Actual Result				
A_IM-01 Device connectivity via supported interfaces.	as expected				
Analysis:	Expected results achieved				

### 5.2.39 CFT-IM-02 (Motorola RAZR V3)

Test Case CFT-IM-02 Micro Systemation .XRY Version 3.6																																																																																															
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:	Wed Apr 9 08:24:21 EDT 2008																																																																																														
Device:	non-supported mobile device																																																																																														
Source Setup:	<p>OS: WIN XP Interface: cable</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <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> <tr> <td></td> <td>Incoming SMS - Read</td> </tr> <tr> <td></td> <td>Incoming SMS - Unread</td> </tr> <tr> <td></td> <td>Incoming SMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing SMS</td> </tr> <tr> <td></td> <td>Outgoing SMS - Deleted</td> </tr> <tr> <td></td> <td>Incoming EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Unread</td> </tr> <tr> <td></td> <td>Incoming Foreign EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing EMS</td> </tr> <tr> <td></td> <td>Outgoing EMS - Deleted</td> </tr> <tr> <td>MMS Messages</td> <td></td> </tr> <tr> <td></td> <td>Incoming Audio</td> </tr> <tr> <td></td> <td>Incoming Image</td> </tr> <tr> <td></td> <td>Incoming Video</td> </tr> <tr> <td></td> <td>Outgoing Audio</td> </tr> <tr> <td></td> <td>Outgoing Image</td> </tr> <tr> <td></td> <td>Outgoing Video</td> </tr> <tr> <td>Stand-alone data files</td> <td></td> </tr> <tr> <td></td> <td>Audio</td> </tr> <tr> <td></td> <td>Audio - Deleted</td> </tr> <tr> <td></td> <td>Image</td> </tr> <tr> <td></td> <td>Image - Deleted</td> </tr> <tr> <td></td> <td>Video</td> </tr> <tr> <td></td> <td>Video - Deleted</td> </tr> </tbody> </table>	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
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Test Case CFT-IM-02 Micro Systemation .XRY Version 3.6					
Highlights:	Acquisition started: Wed Apr 9 08:24:21 EDT 2008 Acquisition finished: Wed Apr 9 08:26:27 EDT 2008  Identification of non-supported devices was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IM-02 Identification of non-supported devices.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IM-02 Identification of non-supported devices.	as expected
Assertion & Expected Result	Actual Result				
A_IM-02 Identification of non-supported devices.	as expected				
Analysis:	Expected results achieved				



## 5.2.40 CFT-IM-03 (Motorola RAZR V3)

Test Case CFT-IM-03 Micro Systemation .XRY Version 3.6																																																																																															
Case Summary:	CFT-IM-03 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.																																																																																														
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-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.																																																																																														
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Test Date:	Wed Apr 9 08:34:52 EDT 2008																																																																																														
Device:	Motorola_RAZR_V3																																																																																														
Source Setup:	OS: WIN XP Interface: cable																																																																																														
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Test Case CFT-IM-03 Micro Systemation .XRY Version 3.6							
Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Wed Apr 9 08:34:52 EDT 2008  Acquisition finished: Wed Apr 9 08:35:24 EDT 2008</p> <p>Device connectivity was established via supported interface  Device acquisition disruption notification was successful</p>						
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IM-01 Device connectivity via supported interfaces.</td> <td>as expected</td> </tr> <tr> <td>A_IM-03 Notification of device acquisition disruption.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IM-01 Device connectivity via supported interfaces.	as expected	A_IM-03 Notification of device acquisition disruption.	as expected
Assertion & Expected Result	Actual Result						
A_IM-01 Device connectivity via supported interfaces.	as expected						
A_IM-03 Notification of device acquisition disruption.	as expected						
Analysis:	Expected results achieved						

## 5.2.41 CFT-IM-04 (Motorola RAZR V3)

Test Case CFT-IM-04 Micro Systemation .XRY Version 3.6																																																																																															
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.																																																																																														
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Test Host:	Morrisy																																																																																														
Test Date:	Wed Apr 9 08:37:15 EDT 2008																																																																																														
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Test Case CFT-IM-04 Micro Systemation .XRY Version 3.6							
Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Wed Apr 9 08:37:15 EDT 2008  Acquisition finished: Wed Apr 9 08:39:25 EDT 2008</p> <p>Device connectivity was established via supported interface  Readability and completeness of acquired data was successful</p> <p><b>Notes:</b>  Test case performed over supported Bluetooth interface produced consistent results with the cable acquisition.</p>						
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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						
Analysis:	Expected results achieved						

## 5.2.42 CFT-IM-05 (Motorola RAZR V3)

Test Case CFT-IM-05 Micro Systemation .XRY Version 3.6																																																																									
Case Summary:	CFT-IM-05 Acquire mobile device internal memory and review reported subscriber and equipment related information (i.e., IMEI, MSISDN).																																																																								
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p>																																																																								
Tester Name:	rpa																																																																								
Test Host:	Morrisy																																																																								
Test Date:	Wed Apr 9 08:42:29 EDT 2008																																																																								
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	Video												
	Video - Deleted												
Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Wed Apr 9 08:42:29 EDT 2008  Acquisition finished: Wed Apr 9 08:45:38 EDT 2008</p> <p>Device connectivity was established via supported interface  Readability and completeness of acquired data was successful  Subscriber and Equipment related data (i.e., MSISDN, IMEI) were acquired</p> <p><b>Notes:</b>  Test case performed over supported Bluetooth interface produced consistent results with the cable acquisition.</p>												
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A_IM-04 Readability and completeness of acquired data via supported reports.	as expected												
A_IM-05 Acquisition of MSISDN.	as expected												
A_IM-06 Acquisition of IMEI.	as expected												
Analysis:	Expected results achieved												

### 5.2.43 CFT-IM-06 (Motorola RAZR V3)

Test Case CFT-IM-06 Micro Systemation .XRY Version 3.6																									
Case Summary:	CFT-IM-06 Acquire mobile device internal memory and review reported PIM related data.																								
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>																								
Tester Name:	rpa																								
Test Host:	Morrisy																								
Test Date:	Wed Apr 9 08:55:23 EDT 2008																								
Device:	Motorola_RAZR_V3																								
Source Setup:	OS: WIN XP Interface: cable <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td rowspan="10">Address Book Entries</td> <td>Maximum Length</td> </tr> <tr> <td>Regular Length, email, picture</td> </tr> <tr> <td>Special Character</td> </tr> <tr> <td>Blank Name</td> </tr> <tr> <td>Regular Length, Deleted email - deleted picture</td> </tr> <tr> <td>Deleted Entry</td> </tr> <tr> <td>Foreign Entry</td> </tr> <tr> <td rowspan="4">PIM Data</td> <td>Maximum Length</td> </tr> <tr> <td>Regular Length</td> </tr> <tr> <td>Deleted Entry</td> </tr> <tr> <td>Special Character</td> </tr> <tr> <td rowspan="6">Call Logs</td> <td>Missed</td> </tr> <tr> <td>Missed - Deleted</td> </tr> <tr> <td>Incoming</td> </tr> <tr> <td>Incoming - Deleted</td> </tr> <tr> <td>Outgoing</td> </tr> <tr> <td>Outgoing - Deleted</td> </tr> <tr> <td>Text Messages</td> <td></td> </tr> </tbody> </table>	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	
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**Test Case CFT-IM-06 Micro Systemation .XRY Version 3.6**

	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 .XRY Version 3.6  
 Acquisition started: Wed Apr 9 08:55:23 EDT 2008  
 Acquisition finished: Wed Apr 9 09:05:15 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:**  
 Test case performed over supported Bluetooth interface produced consistent results with the cable acquisition.

**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



## 5.2.44 CFT-IM-07 (Motorola RAZR V3)

Test Case CFT-IM-07 Micro Systemation .XRY Version 3.6																																																																																									
Case Summary:	CFT-IM-07 Acquire mobile device internal memory and review reported call logs.																																																																																								
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p>																																																																																								
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Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Wed Apr 9 10:06:46 EDT 2008  Acquisition finished: Wed Apr 9 10:09:01 EDT 2008</p> <p>Device connectivity was established via supported interface  Readability and completeness of acquired data was successful  All Call Logs (incoming, outgoing) were acquired</p> <p><b>Notes:</b>  Test case performed over supported Bluetooth interface produced consistent results with the cable acquisition.</p>								
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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> </tbody> </table>	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
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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								

## 5.2.45 CFT-IM-08 (Motorola RAZR V3)

Test Case CFT-IM-08 Micro Systemation .XRY Version 3.6																																																																																									
Case Summary:	CFT-IM-08 Acquire mobile device internal memory and review reported text messages.																																																																																								
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p>																																																																																								
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Test Host:	Morrisy																																																																																								
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Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Wed Apr 9 09:35:52 EDT 2008  Acquisition finished: Wed Apr 9 09:39:33 EDT 2008</p> <p>Device connectivity was established via supported interface  Readability and completeness of acquired data was successful  ALL text messages (SMS, EMS) were acquired</p> <p><b>Notes:</b>  Test case performed over supported Bluetooth interface produced consistent results with the cable acquisition.</p>								
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Analysis:	Expected results achieved								

## 5.2.46 CFT-IM-09 (Motorola RAZR V3)

Test Case CFT-IM-09 Micro Systemation .XRY Version 3.6																																																																											
Case Summary:	CFT-IM-09 Acquire mobile device internal memory and review reported MMS multi-media related data (i.e., text, audio, graphics, video).																																																																										
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>																																																																										
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Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Wed Apr 9 09:41:47 EDT 2008  Acquisition finished: Wed Apr 9 09:43:17 EDT 2008</p> <p>Device connectivity was established via supported interface  Readability and completeness of acquired data was successful  ALL MMS messages (Audio, Image, Video) were acquired</p> <p><b>Notes:</b>  QuickTime Version 7.4.1 was used to execute MMS attachments.</p> <p>Test case performed over supported Bluetooth interface produced consistent results with the cable acquisition.</p>																				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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-17 Acquisition of audio MMS messages.</td> <td>as expected</td> </tr> <tr> <td>A_IM-18 Acquisition of image MMS messages.</td> <td>as expected</td> </tr> <tr> <td>A_IM-19 Acquisition of video MMS messages.</td> <td>as expected</td> </tr> </tbody> </table>	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-17 Acquisition of audio MMS messages.	as expected	A_IM-18 Acquisition of image MMS messages.	as expected	A_IM-19 Acquisition of video MMS messages.	as expected								
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Analysis:	Expected results achieved																				

## 5.2.47 CFT-IM-10 (Motorola RAZR V3)

Test Case CFT-IM-10 Micro Systemation .XRY Version 3.6																																																																							
Case Summary:	CFT-IM-10 Acquire mobile device internal memory and review reported stand-alone multi-media data (i.e., audio, graphics, video).																																																																						
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>																																																																						
Tester Name:	rpa																																																																						
Test Host:	Morrisy																																																																						
Test Date:	Wed Apr 9 10:00:13 EDT 2008																																																																						
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Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Wed Apr 9 10:00:13 EDT 2008  Acquisition finished: Wed Apr 9 10:01:49 EDT 2008</p> <p>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</p> <p><b>Notes:</b>  Test case performed over supported Bluetooth interface produced consistent results with the cable acquisition.</p>																								
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Analysis:	Expected results achieved																								



## 5.2.48 CFT-IMO-01 (Motorola RAZR V3)

Test Case CFT-IMO-01 Micro Systemation .XRY Version 3.6																																																																																															
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.																																																																																														
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Log	Created By .XRY Version 3.6																																																																																														

Test Case CFT-IMO-01 Micro Systemation .XRY Version 3.6					
Highlights:	Acquisition started: Fri Apr 11 12:18:47 EDT 2008 Acquisition finished: Fri Apr 11 12:23:23 EDT 2008 Acquisition finished: Fri Apr 11 12:27:57 EDT 2008  Complete representation of known data via generated reports was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-38 Comparison of known device data elements via generated reports.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IMO-38 Comparison of known device data elements via generated reports.	as expected
Assertion & Expected Result	Actual Result				
A_IMO-38 Comparison of known device data elements via generated reports.	as expected				
Analysis:	Expected results achieved				

## 5.2.49 CFT-IMO-02 (Motorola RAZR V3)

Test Case CFT-IMO-02 Micro Systemation .XRY Version 3.6																																																																																															
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.																																																																																														
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Test Case CFT-IMO-02 Micro Systemation .XRY Version 3.6					
Highlights:	Acquisition started: Fri Apr 11 12:26:06 EDT 2008 Complete representation of known data via preview-pane was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-39 Comparison of known device data elements via preview-pane.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IMO-39 Comparison of known device data elements via preview-pane.	as expected
Assertion & Expected Result	Actual Result				
A_IMO-39 Comparison of known device data elements via preview-pane.	as expected				
Analysis:	Expected results achieved				

## 5.2.50 CFT-IMO-03 (Motorola RAZR V3)

Test Case CFT-IMO-03 Micro Systemation .XRY Version 3.6																																																																																													
Case Summary:	CFT-IMO-03 Acquire mobile device internal memory and compare reported data via the preview-pane and supported generated reports.																																																																																												
Assertions:	<p>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.</p> <p>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.</p> <p>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.</p>																																																																																												
Tester Name:	rpa																																																																																												
Test Host:	Morrisy																																																																																												
Test Date:	Fri Apr 11 12:28:54 EDT 2008																																																																																												
Device:	Motorola_RAZR_V3																																																																																												
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Test Case CFT-IMO-03 Micro Systemation .XRY Version 3.6									
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Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Fri Apr 11 12:28:54 EDT 2008  Acquisition finished: Fri Apr 11 12:30:47 EDT 2008</p> <p>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</p>								
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A_IMO-39 Comparison of known device data elements via preview-pane.	as expected								
A_IMO-40 Compare generated reports and preview-pane views for device acquisition.	as expected								
Analysis:	Expected results achieved								

## 5.2.51 CFT-IMO-04 (Motorola RAZR V3)

Test Case CFT-IMO-04 Micro Systemation .XRY Version 3.6																																																																																															
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 11 12:31:21 EDT 2008																																																																																														
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Test Case CFT-IMO-04 Micro Systemation .XRY Version 3.6					
Highlights:	<p>Acquisition started: Fri Apr 11 12:31:21 EDT 2008  Acquisition finished: Fri Apr 11 12:34:34 EDT 2008</p> <p>Notification of modified case data was successful</p> <p><b>Notes:</b>  Case File Encryption has to be selected before Acquisition</p>				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-41 Notification of modified device case data.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IMO-41 Notification of modified device case data.	as expected
Assertion & Expected Result	Actual Result				
A_IMO-41 Notification of modified device case data.	as expected				
Analysis:	Expected results achieved				



## 5.2.52 CFT-IMO-07 (Motorola RAZR V3)

Test Case CFT-IMO-07 Micro Systemation .XRY Version 3.6																																																																																			
Case Summary:	CFT-IMO-07 Create a SIM access card via vendor documentation.																																																																																		
Assertions:	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. Access cards characteristics should be consistent with vendor documentation.																																																																																		
Tester Name:	rpa																																																																																		
Test Host:	Morrisy																																																																																		
Test Date:	Fri Apr 11 12:38:51 EDT 2008																																																																																		
Device:	ATT_SIM																																																																																		
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	Incoming SMS - Deleted																																																																																		
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MMS Messages	Incoming Audio																																																																																		
	Incoming Image																																																																																		
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	Outgoing Video																																																																																		
Stand-alone data files	Audio																																																																																		
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	Video																																																																																		
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Test Case CFT-IMO-07 Micro Systemation .XRY Version 3.6					
Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Fri Apr 11 12:38:51 EDT 2008 Acquisition finished: Fri Apr 11 12:44:25 EDT 2008  Access card creation was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-51 Access card creation.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IMO-51 Access card creation.	as expected
Assertion & Expected Result	Actual Result				
A_IMO-51 Access card creation.	as expected				
Analysis:	Expected results achieved				

### 5.2.53 CFT-IMO-08 (Motorola RAZR V3)

Test Case CFT-IMO-08 Micro Systemation .XRY Version 3.6																																																																																															
Case Summary:	CFT-IMO-08 Acquire mobile device internal memory and review generated log files.																																																																																														
Assertions:	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.																																																																																														
Tester Name:	rpa																																																																																														
Test Host:	Morrisy																																																																																														
Test Date:	Fri Apr 11 12:45:36 EDT 2008																																																																																														
Device:	Motorola_RAZR_V3																																																																																														
Source Setup:	OS: WIN XP Interface: cable																																																																																														
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**Test Case CFT-IMO-08 Micro Systemation .XRY Version 3.6**

Log	Created By .XRY Version 3.6	
Highlights:	Acquisition started: Fri Apr 11 12:45:36 EDT 2008	
	Acquisition finished: Fri Apr 11 12:48:41 EDT 2008	
	Creation of complete and human-readable log files was successful	
	<b>Notes:</b>	
	XRY Log	
	Module	Status Message
	-----	-----
	MAIN	Success Initiating Process
	MAIN	Success .XRY Version 3.6
	MAIN	Success Connected to Motorola USB Modem #3 [COM11]
	MAIN	Success Device Name: Motorola V3
	MAIN	Success CGMI Resp = [+CGMI: "Motorola CE, Copyright 2004"]
	MAIN	Success CGMM Resp = [+CGMM: "GSM900", "GSM1800", "GSM1900", "GSM850", "MODEL=V3re"]
	MAIN	Success CGMR Resp = [+CGMR: "R3442A_G_0E.43.08R"]
	MAIN	Success I3 Resp = [Motorola Mobile Phone]
	MAIN	Success Starting process of GSM0707 (3.5)
	GSM0707	Success Connecting
	GSM0707	Success Analyzing General Information
	GSM0707	Success Reading General Information
	GSM0707	Success Disconnecting
	MAIN	Success GSM0707 (3.5) completed successfully
	MAIN	Success Starting process of Motorola (3.5)
	MOTOROLA	Success Connecting
	MOTOROLA	Success Analyzing Contacts
	MOTOROLA	Success Reading Contacts ME
	MOTOROLA	Success Reading Contacts SM
	MOTOROLA	Success Analyzing Calls
	MOTOROLA	Success Reading Calls DC
	MOTOROLA	Success Reading Calls MC
	MOTOROLA	Success Reading Calls RC
	MOTOROLA	Success Analyzing Calendar
	MOTOROLA	Success Reading Calendar
	MOTOROLA	Success Analyzing SMS
	MOTOROLA	Success Reading SMS IM (6 items)
	MOTOROLA	Success Disconnecting
	MAIN	Success Motorola (3.5) completed successfully
	MAIN	Success Starting process of OBEX (3.5)
	OBEX	Success Connecting
	OBEX	Success Connecting OBEX
	OBEX	Success Analyzing
	OBEX	Success Analyzing audio
	OBEX	Success Reading chare.wav
	OBEX	Success Reading french.mp3
	OBEX	Success Analyzing video
	OBEX	Success Reading 11-30-07_1038.3gp
	OBEX	Success Reading 11-30-07_0954.3gp
	OBEX	Success Reading 11-30-07_1037.3gp
	OBEX	Success Analyzing picture
	OBEX	Success Reading emma-girl.jpg
	OBEX	Success Reading 11-28-07_1330.jpg
	OBEX	Success Reading 11-30-07_0856.jpg
	OBEX	Success Reading Sunset.jpg
	OBEX	Success Reading 11-28-07_1335.jpg
	OBEX	Success Disconnecting OBEX
	OBEX	Success Disconnecting
	MAIN	Success OBEX (3.5) completed successfully
	MAIN	Success Processing completed successfully.
	MAIN	Success Total processing time: 0 minutes, 59 seconds
	MAIN	Success 11 items read to General Information folder
	MAIN	Success 14 items read to Contacts folder
	MAIN	Success 1 items read to Calendar folder
	MAIN	Success 6 items read to SMS folder
	MAIN	Success 5 items read to Pictures folder

Test Case CFT-IMO-08 Micro Systemation .XRY Version 3.6						
	MAIN	Success 3 items read to Videos folder				
	MAIN	Success 2 items read to Audio folder				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-52 Device Log file output.</td> <td>as expected</td> </tr> </tbody> </table>		Assertion & Expected Result	Actual Result	A_IMO-52 Device Log file output.	as expected
Assertion & Expected Result	Actual Result					
A_IMO-52 Device Log file output.	as expected					
Analysis:	Expected results achieved					

## 5.2.54 CFT-IMO-09 (Motorola RAZR V3)

Test Case CFT-IMO-09 Micro Systemation .XRY Version 3.6																																																																																	
Case Summary:	CFT-IMO-09 Acquire mobile device internal memory and review data containing foreign language characters.																																																																																
Assertions:	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>																																																																																
Tester Name:	rpa																																																																																
Test Host:	Morrisy																																																																																
Test Date:	Fri Apr 11 12:51:57 EDT 2008																																																																																
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Test Case CFT-IMO-09 Micro Systemation .XRY Version 3.6															
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Stand-alone data files															
	Audio														
	Audio - Deleted														
	Image														
	Image - Deleted														
	Video														
	Video - Deleted														
Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Fri Apr 11 12:51:57 EDT 2008  Acquisition finished: Fri Apr 11 12:54:20 EDT 2008</p> <p>Complete representation of known data via generated reports was successful  Complete representation of known data via preview-pane was successful  Foreign character Address book entries were acquired and properly displayed  Foreign character text messages were acquired and properly displayed</p>														
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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-53 Acquisition of address book entries containing foreign language characters.</td> <td>as expected</td> </tr> <tr> <td>A_IMO-54 Acquisition of outgoing text messages containing foreign language characters.</td> <td>as expected</td> </tr> </tbody> </table>	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-53 Acquisition of address book entries containing foreign language characters.	as expected	A_IMO-54 Acquisition of outgoing text messages containing foreign language characters.	as expected				
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Analysis:	Expected results achieved														

## 5.2.55 CFT-IMO-11 (Motorola RAZR V3)

Test Case CFT-IMO-11 Micro Systemation .XRY Version 3.6																																																																																									
Case Summary:	CFT-IMO-11 Acquire mobile device internal memory and review hash values for vendor supported data objects.																																																																																								
Assertions:	<p>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.</p> <p>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.</p> <p>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.</p>																																																																																								
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Test Host:	Morrisy																																																																																								
Test Date:	Fri Apr 11 12:55:41 EDT 2008																																																																																								
Device:	Motorola_RAZR_V3																																																																																								
Source Setup:	<p>OS: WIN XP Interface: cable</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <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> <tr> <td></td> <td>Incoming SMS - Read</td> </tr> <tr> <td></td> <td>Incoming SMS - Unread</td> </tr> <tr> <td></td> <td>Incoming SMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing SMS</td> </tr> <tr> <td></td> <td>Outgoing SMS - Deleted</td> </tr> <tr> <td></td> <td>Incoming EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Unread</td> </tr> <tr> <td></td> <td>Incoming Foreign EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing EMS</td> </tr> <tr> <td></td> <td>Outgoing EMS - Deleted</td> </tr> <tr> <td>MMS Messages</td> <td></td> </tr> <tr> <td></td> <td>Incoming Audio</td> </tr> <tr> <td></td> <td>Incoming Image</td> </tr> <tr> <td></td> <td>Incoming Video</td> </tr> <tr> <td></td> <td>Outgoing Audio</td> </tr> <tr> <td></td> <td>Outgoing Image</td> </tr> <tr> <td></td> <td>Outgoing Video</td> </tr> <tr> <td>Stand-alone data files</td> <td></td> </tr> <tr> <td></td> <td>Audio</td> </tr> <tr> <td></td> <td>Audio - Deleted</td> </tr> <tr> <td></td> <td>Image</td> </tr> </tbody> </table>	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
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Test Case CFT-IMO-11 Micro Systemation .XRY Version 3.6									
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	Image - Deleted								
	Video								
	Video - Deleted								
Log Highlights:	<p>Created By .XRY Version 3.6  Acquisition started: Fri Apr 11 12:55:41 EDT 2008  Acquisition finished: Fri Apr 11 12:57:58 EDT 2008</p> <p>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</p> <p><b>Notes:</b>  SHAl and MD5 hashes were successfully calculated for pictures, video, and audio.</p>								
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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> </tbody> </table>	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
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								
Analysis:	Expected results achieved								

## 5.2.56 CFT-SIM-01 (AT&T SIM)

Test Case CFT-SIM-01 Micro Systemation .XRY Version 3.6																															
Case Summary:	CFT-SIM-01 Acquire SIM over supported interfaces (e.g., PC/SC reader, proprietary reader).																														
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).																														
Tester Name:	rpa																														
Test Host:	Morrisy																														
Test Date:	Thu Apr 3 14:01:20 EDT 2008																														
Device:	ATT_SIM																														
Source Setup:	OS: WIN XP Interface: USB																														
	<table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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> </tbody> </table>	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
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	Incoming EMS - Deleted																														
Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 14:01:20 EDT 2008 Acquisition finished: Thu Apr 3 14:05:39 EDT 2008  Media connectivity was established via supported interface																														
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_SIM-23 SIM connectivity via supported interfaces.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_SIM-23 SIM connectivity via supported interfaces.	as expected																										
Assertion & Expected Result	Actual Result																														
A_SIM-23 SIM connectivity via supported interfaces.	as expected																														
Analysis:	Expected results achieved																														

## 5.2.57 CFT-SIM-02 (AT&T SIM)

Test Case CFT-SIM-02 Micro Systemation .XRY Version 3.6																															
Case Summary:	CFT-SIM-02 Attempt acquisition of a non-supported SIM.																														
Assertions:	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.																														
Tester Name:	rpa																														
Test Host:	Morrisy																														
Test Date:	Thu Apr 3 14:07:09 EDT 2008																														
Device:	ATT SIM																														
Source Setup:	OS: WIN XP Interface: USB <table border="1" data-bbox="423 590 1312 999"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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> </tbody> </table>	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
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	Incoming EMS - Deleted																														
Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 14:07:09 EDT 2008 Acquisition finished: Thu Apr 3 14:08:07 EDT 2008  Identification of non-supported media was successful																														
Results:	<table border="1" data-bbox="423 1241 1248 1293"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_SIM-24 Identification of non-supported SIMs.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_SIM-24 Identification of non-supported SIMs.	as expected																										
Assertion & Expected Result	Actual Result																														
A_SIM-24 Identification of non-supported SIMs.	as expected																														
Analysis:	Expected results achieved																														

## 5.2.58 CFT-SIM-03 (AT&T SIM)

Test Case CFT-SIM-03 Micro Systemation .XRY Version 3.6																															
Case Summary:	CFT-SIM-03 Begin SIM acquisition and interrupt connectivity by interface disengagement.																														
Assertions:	<p>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).</p> <p>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.</p>																														
Tester Name:	rpa																														
Test Host:	Morrisy																														
Test Date:	Thu Apr 3 14:09:03 EDT 2008																														
Device:	ATT_SIM																														
Source Setup:	<p>OS: WIN XP Interface: USB</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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> </tbody> </table>	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
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	Incoming EMS - Deleted																														
Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 14:09:03 EDT 2008 Acquisition finished: Thu Apr 3 14:10:02 EDT 2008</p> <p>Media connectivity was established via supported interface Media acquisition disruption notification was successful</p>																														
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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> </tbody> </table>	Assertion & Expected Result	Actual Result	A_SIM-23 SIM connectivity via supported interfaces.	as expected	A_SIM-25 Notification of SIM acquisition disruption.	as expected																								
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A_SIM-23 SIM connectivity via supported interfaces.	as expected																														
A_SIM-25 Notification of SIM acquisition disruption.	as expected																														
Analysis:	Expected results achieved																														

## 5.2.59 CFT-SIM-04 (AT&T SIM)

Test Case CFT-SIM-04 Micro Systemation .XRY Version 3.6																															
Case Summary:	CFT-SIM-04 Attempt acquisition on a password-protected SIM.																														
Assertions:	<p>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).</p> <p>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.</p>																														
Tester Name:	rpa																														
Test Host:	Morrisy																														
Test Date:	Thu Apr 3 14:11:27 EDT 2008																														
Device:	ATT_SIM																														
Source Setup:	<p>OS: WIN XP Interface: USB</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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> </tbody> </table>	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
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	Incoming EMS - Deleted																														
Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 14:11:27 EDT 2008 Acquisition finished: Thu Apr 3 14:12:25 EDT 2008</p> <p>Media connectivity was established via supported interface Ability to enter PIN on protected media before acquisition was successful</p>																														
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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> </tbody> </table>	Assertion & Expected Result	Actual Result	A_SIM-23 SIM connectivity via supported interfaces.	as expected	A_SIM-26 Password entry before acquisition for protected SIMs.	as expected																								
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A_SIM-26 Password entry before acquisition for protected SIMs.	as expected																														
Analysis:	Expected results achieved																														

## 5.2.60 CFT-SIM-05 (AT&T SIM)

Test Case CFT-SIM-05 Micro Systemation .XRY Version 3.6																											
Case Summary:	CFT-SIM-05 Acquire SIM internal memory and review reported data via the preview-pane or generated reports for readability.																										
Assertions:	<p>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).</p> <p>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.</p>																										
Tester Name:	rpa																										
Test Host:	Morrisy																										
Test Date:	Thu Apr 3 14:13:14 EDT 2008																										
Device:	ATT_SIM																										
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	Incoming Foreign EMS - Read																										
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Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 14:13:14 EDT 2008 Acquisition finished: Thu Apr 3 14:14:35 EDT 2008</p> <p>Media connectivity was established via supported interface Readability and completeness of acquired data was successful</p>																										
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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> </tbody> </table>	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																				
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A_SIM-23 SIM connectivity via supported interfaces.	as expected																										
A_SIM-27 Readability and completeness of acquired data via supported reports.	as expected																										
Analysis:	Expected results achieved																										

## 5.2.61 CFT-SIM-06 (AT&T SIM)

Test Case CFT-SIM-06 Micro Systemation .XRY Version 3.6																											
Case Summary:	CFT-SIM-06 Acquire SIM internal memory and review reported subscriber and equipment related information (i.e., SPN, ICCID, IMSI, MSISDN).																										
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>																										
Tester Name:	rpa																										
Test Host:	Morrisy																										
Test Date:	Thu Apr 3 14:16:10 EDT 2008																										
Device:	ATT_SIM																										
Source Setup:	<p>OS: WIN XP Interface: USB</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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>Last Numbers Dialed (LND)</td> </tr> <tr> <td>Text Messages</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> </tbody> </table>	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
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	Special Character																										
	Blank Name																										
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	Incoming SMS - Foreign																										
	Incoming SMS - Deleted																										
	Incoming SMS - Unread																										
	Incoming Foreign EMS - Read																										
	Incoming EMS - Deleted																										
Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 14:16:10 EDT 2008 Acquisition finished: Thu Apr 3 14:17:40 EDT 2008</p> <p>Media connectivity was established via supported interface Readability and completeness of acquired data was successful All subscriber-related data (i.e., SPN, ICCID, IMSI, MSISDN) was acquired</p>																										
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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-28 Acquisition of SPN.</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> </tbody> </table>	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-28 Acquisition of SPN.	as expected	A_SIM-29 Acquisition of ICCID.	as expected	A_SIM-30 Acquisition of IMSI.	as expected														
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A_SIM-29 Acquisition of ICCID.	as expected																										
A_SIM-30 Acquisition of IMSI.	as expected																										

Test Case CFT-SIM-06 Micro Systemation .XRY Version 3.6		
	A_SIM-31 Acquisition of MSISDN.	as expected
Analysis:	Expected results achieved	



## 5.2.62 CFT-SIM-07 (AT&T SIM)

Test Case CFT-SIM-07 Micro Systemation .XRY Version 3.6																															
Case Summary:	CFT-SIM-07 Acquire SIM internal memory and review reported Abbreviated Dialing Numbers (ADNs).																														
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p>																														
Tester Name:	rpa																														
Test Host:	Morrisy																														
Test Date:	Thu Apr 3 14:18:32 EDT 2008																														
Device:	ATT_SIM																														
Source Setup:	<p>OS: WIN XP Interface: USB</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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> </tbody> </table>	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
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	Incoming SMS - Deleted																														
	Incoming SMS - Unread																														
	Incoming Foreign EMS - Read																														
	Incoming EMS - Deleted																														
Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 14:18:32 EDT 2008 Acquisition finished: Thu Apr 3 14:20:08 EDT 2008</p> <p>Media connectivity was established via supported interface Readability and completeness of acquired data was successful All ADNs were acquired</p>																														
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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>as expected</td> </tr> </tbody> </table>	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.	as expected																						
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A_SIM-27 Readability and completeness of acquired data via supported reports.	as expected																														
A_SIM-32 Acquisition of ADNs.	as expected																														
Analysis:	Expected results achieved																														

### 5.2.63 CFT-SIM-08 (AT&T SIM)

Test Case CFT-SIM-08 Micro Systemation .XRY Version 3.6																																	
Case Summary:	CFT-SIM-08 Acquire SIM internal memory and review reported Last Numbers Dialed (LND).																																
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p>																																
Tester Name:	rpa																																
Test Host:	Morrisy																																
Test Date:	Thu Apr 3 14:20:59 EDT 2008																																
Device:	ATT_SIM																																
Source Setup:	<p>OS: WIN XP Interface: USB</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <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> </tbody> </table>	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
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	Incoming EMS - Deleted																																
Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 14:20:59 EDT 2008 Acquisition finished: Thu Apr 3 14:23:22 EDT 2008</p> <p>Media connectivity was established via supported interface Readability and completeness of acquired data was successful LNDs were acquired</p>																																
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A_SIM-27 Readability and completeness of acquired data via supported reports.	as expected																																
A_SIM-33 Acquisition of LNDs.	as expected																																
Analysis:	Expected results achieved																																

## 5.2.64 CFT-SIM-09 (AT&T SIM)

Test Case CFT-SIM-09 Micro Systemation .XRY Version 3.6																																	
Case Summary:	CFT-SIM-09 Acquire SIM internal memory and review reported text messages (i.e., SMS, EMS).																																
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p>																																
Tester Name:	rpa																																
Test Host:	Morrisy																																
Test Date:	Thu Apr 3 14:24:12 EDT 2008																																
Device:	ATT_SIM																																
Source Setup:	<p>OS: WIN XP Interface: USB</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <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> </tbody> </table>	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
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	Incoming EMS - Deleted																																
Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 14:24:12 EDT 2008 Acquisition finished: Thu Apr 3 14:25:30 EDT 2008</p> <p>Media connectivity was established via supported interface Readability and completeness of acquired data was successful ALL text messages (SMS, EMS) were acquired</p>																																
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A_SIM-34 Acquisition of SMS messages.	as expected																																
A_SIM-35 Acquisition of EMS messages.	as expected																																
Analysis:	Expected results achieved																																

## 5.2.65 CFT-SIM-10 (AT&T SIM)

Test Case CFT-SIM-10 Micro Systemation .XRY Version 3.6																											
Case Summary:	CFT-SIM-10 Acquire SIM internal memory and review reported location related data (i.e., LOCI, GPRSLOCI).																										
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p> <p>A_SIM-37 If a cellular forensic tool successfully completes acquisition of the target SIM then all location related data (i.e., GPRSLOCI) shall be presented in a human-readable format without modification.</p>																										
Tester Name:	rpa																										
Test Host:	Morrisy																										
Test Date:	Thu Apr 3 14:26:05 EDT 2008																										
Device:	ATT_SIM																										
Source Setup:	<p>OS: WIN XP Interface: USB</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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>Last Numbers Dialed (LND)</td> </tr> <tr> <td>Text Messages</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> </tbody> </table>	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
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	Incoming Foreign EMS - Read																										
	Incoming EMS - Deleted																										
Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Thu Apr 3 14:26:05 EDT 2008 Acquisition finished: Thu Apr 3 14:27:12 EDT 2008</p> <p>Media connectivity was established via supported interface Readability and completeness of acquired data was successful LOCI data was acquired GPRSLOCI data was acquired</p>																										
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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-36 Acquisition of LOCI information.</td> <td>as expected</td> </tr> <tr> <td>A_SIM-37 Acquisition of GPRSLOCI information.</td> <td>as expected</td> </tr> </tbody> </table>	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-36 Acquisition of LOCI information.	as expected	A_SIM-37 Acquisition of GPRSLOCI information.	as expected																
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A_SIM-36 Acquisition of LOCI information.	as expected																										
A_SIM-37 Acquisition of GPRSLOCI information.	as expected																										
Analysis:	Expected results achieved																										

## 5.2.66 CFT-SIMO-01 (AT&T SIM)

Test Case CFT-SIMO-01 Micro Systemation .XRY Version 3.6																																	
Case Summary:	CFT-SIMO-01 Acquire SIM internal memory and review acquired data via supported generated report formats.																																
Assertions:	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.																																
Tester Name:	rpa																																
Test Host:	Morrisy																																
Test Date:	Fri Apr 4 13:07:02 EDT 2008																																
Device:	ATT_SIM																																
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Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Fri Apr 4 13:07:02 EDT 2008 Acquisition finished: Fri Apr 4 13:07:59 EDT 2008  Complete representation of known data via generated reports was successful																																
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A_SIMO-58 Comparison of known SIM data elements via generated reports.	as expected																																
Analysis:	Expected results achieved																																

## 5.2.67 CFT-SIMO-02 (AT&T SIM)

Test Case CFT-SIMO-02 Micro Systemation .XRY Version 3.6																																	
Case Summary:	CFT-SIMO-02 Acquire SIM internal memory and review acquired data via the preview-pane.																																
Assertions:	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.																																
Tester Name:	rpa																																
Test Host:	Morrisy																																
Test Date:	Fri Apr 4 13:08:39 EDT 2008																																
Device:	ATT_SIM																																
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Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Fri Apr 4 13:08:39 EDT 2008 Acquisition finished: Fri Apr 4 13:09:22 EDT 2008  Complete representation of known data via preview-pane was successful																																
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Analysis:	Expected results achieved																																

## 5.2.68 CFT-SIMO-03 (AT&T SIM)

Test Case CFT-SIMO-03 Micro Systemation .XRY Version 3.6																											
Case Summary:	CFT-SIMO-03 Acquire SIM internal memory and compare acquired data via the preview-pane and supported generated reports.																										
Assertions:	<p>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.</p> <p>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.</p> <p>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.</p>																										
Tester Name:	rpa																										
Test Host:	Morrisy																										
Test Date:	Fri Apr 4 13:09:53 EDT 2008																										
Device:	ATT_SIM																										
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Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Fri Apr 4 13:09:53 EDT 2008 Acquisition finished: Fri Apr 4 13:20:51 EDT 2008  Complete representation of known data via generated reports was successful Complete representation of known data via preview-pane was successful																										
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A_SIMO-60 Compare generated reports and preview-pane views for SIM acquisition.	as expected																										
Analysis:	Expected results achieved																										

## 5.2.69 CFT-SIMO-04 (AT&T SIM)

Test Case CFT-SIMO-04 Micro Systemation .XRY Version 3.6																															
Case Summary:	CFT-SIMO-04 After a successful SIM internal memory acquisition, after the case file via third party means and attempt to re-open the case.																														
Assertions:	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.																														
Tester Name:	rpa																														
Test Host:	Morrisy																														
Test Date:	Fri Apr 4 13:37:45 EDT 2008																														
Device:	ATT_SIM																														
Source Setup:	OS: WIN XP Interface: USB <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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> </tbody> </table>	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
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	Incoming EMS - Deleted																														
Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Fri Apr 4 13:37:45 EDT 2008 Acquisition finished: Fri Apr 4 13:41:01 EDT 2008  Notification of modified case data was successful  <b>Notes:</b> Case File Encryption has to be selected before Acquisition																														
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Assertion & Expected Result	Actual Result																														
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Analysis:	Expected results achieved																														



## 5.2.70 CFT-SIMO-05 (AT&T SIM)

Test Case CFT-SIMO-05 Micro Systemation .XRY Version 3.6																																	
Case Summary:	CFT-SIMO-05 Acquire SIM internal memory and review reports for recoverable deleted data.																																
Assertions:	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>																																
Tester Name:	rpa																																
Test Host:	Morrisy																																
Test Date:	Fri Apr 4 13:44:54 EDT 2008																																
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	Incoming EMS - Deleted																																
Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Fri Apr 4 13:44:54 EDT 2008 Acquisition finished: Fri Apr 4 13:46:28 EDT 2008</p> <p>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</p>																																
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Test Case CFT-SIMO-05 Micro Systemation .XRY Version 3.6	
Analysis:	Expected results achieved

## 5.2.71 CFT-SIMO-06 (AT&T SIM)

Test Case CFT-SIMO-06 Micro Systemation .XRY Version 3.6																																																																									
Case Summary:	CFT-SIMO-06 Acquire SIM internal memory and review generated log files.																																																																								
Assertions:	A_SIMO-64 If a cellular forensic tool supports creation of log files then the application should present the log files in a human-readable format outlining the acquisition process.																																																																								
Tester Name:	rpa																																																																								
Test Host:	Morrisy																																																																								
Test Date:	Fri Apr 4 13:49:26 EDT 2008																																																																								
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Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Fri Apr 4 13:49:26 EDT 2008 Acquisition finished: Fri Apr 4 13:51:05 EDT 2008</p> <p>Creation of complete and human-readable log files was successful</p> <p><b>Notes:</b></p> <p>XRY Log</p> <table> <thead> <tr> <th>Module</th> <th>Status</th> <th>Message</th> </tr> <tr> <th>-----</th> <th>-----</th> <th>-----</th> </tr> </thead> <tbody> <tr> <td>MAIN</td> <td>Success</td> <td>Initiating Process</td> </tr> <tr> <td>MAIN</td> <td>Success</td> <td>.XRY Version 3.6</td> </tr> <tr> <td>MAIN</td> <td>Success</td> <td>Connected to OMNIKEY CardMan 6121 0 []</td> </tr> <tr> <td>MAIN</td> <td>Success</td> <td>Device Name: SIM Card</td> </tr> <tr> <td>MAIN</td> <td>Success</td> <td>Starting process of SIM (3.6)</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Connecting</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Connected with T0 Protocol</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Detecting SIM type</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Asking user for SIM type</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Identified as SIM Card</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Passed PIN code</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Analyzing MF folder</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Reading General Information</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Reading General Information</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Analyzing GSM Folder</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Reading General Information</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Reading Network Information</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Reading Network Information PLMN Selector</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Reading Network Information Forbidden PLMNs</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Analyzing Telecom Folder</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Reading SMS</td> </tr> <tr> <td>SIM</td> <td>Success</td> <td>Read 30 positions, 15 used</td> </tr> </tbody> </table>	Module	Status	Message	-----	-----	-----	MAIN	Success	Initiating Process	MAIN	Success	.XRY Version 3.6	MAIN	Success	Connected to OMNIKEY CardMan 6121 0 []	MAIN	Success	Device Name: SIM Card	MAIN	Success	Starting process of SIM (3.6)	SIM	Success	Connecting	SIM	Success	Connected with T0 Protocol	SIM	Success	Detecting SIM type	SIM	Success	Asking user for SIM type	SIM	Success	Identified as SIM Card	SIM	Success	Passed PIN code	SIM	Success	Analyzing MF folder	SIM	Success	Reading General Information	SIM	Success	Reading General Information	SIM	Success	Analyzing GSM Folder	SIM	Success	Reading General Information	SIM	Success	Reading Network Information	SIM	Success	Reading Network Information PLMN Selector	SIM	Success	Reading Network Information Forbidden PLMNs	SIM	Success	Analyzing Telecom Folder	SIM	Success	Reading SMS	SIM	Success	Read 30 positions, 15 used
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Test Case CFT-SIMO-06 Micro Systemation .XRY Version 3.6							
	SIM	Success	Reading General Information (MSISDN numbers)				
	SIM	Success	Read 4 positions, 1 used				
	SIM	Success	Reading Network Information				
	SIM	Success	Reading Contacts				
	SIM	Success	Read 250 positions, 6 used				
	SIM	Success	Reading Contacts (fixed numbers)				
	SIM	Success	Read 40 positions, 0 used				
	SIM	Success	Reading Contacts (service numbers)				
	SIM	Success	Read 5 positions, 0 used				
	SIM	Success	Reading Calls (last dialled)				
	SIM	Success	Read 10 positions, 4 used				
	SIM	Success	Attempting to read 02 IMEI				
	SIM	Success	No IMEI Found				
	MAIN	Success	SIM (3.6) completed successfully				
	MAIN	Success	Processing completed successfully.				
	MAIN	Success	Total processing time: 0 minutes, 10 seconds				
	MAIN	Success	9 items read to General Information folder				
	MAIN	Success	6 items read to Contacts folder				
	MAIN	Success	4 items read to Calls folder				
	MAIN	Success	8 items read to SMS folder				
	MAIN	Success	16 items read to Network Information folder				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_SIMO-64 SIM log file output.</td> <td>as expected</td> </tr> </tbody> </table>			Assertion & Expected Result	Actual Result	A_SIMO-64 SIM log file output.	as expected
Assertion & Expected Result	Actual Result						
A_SIMO-64 SIM log file output.	as expected						
Analysis:	Expected results achieved						

## 5.2.72 CFT-SIMO-07 (AT&T SIM)

Test Case CFT-SIMO-07 Micro Systemation .XRY Version 3.6																																	
Case Summary:	CFT-SIMO-07 Acquire SIM internal memory and review data containing foreign language characters.																																
Assertions:	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>																																
Tester Name:	rpa																																
Test Host:	Morrisy																																
Test Date:	Fri Apr 4 13:54:02 EDT 2008																																
Device:	ATT_SIM																																
Source Setup:	<p>OS: WIN XP Interface: USB</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <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> </tbody> </table>	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
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	Incoming SMS - Unread																																
	Incoming Foreign EMS - Read																																
	Incoming EMS - Deleted																																
Log Highlights:	<p>Created By .XRY Version 3.6 Acquisition started: Fri Apr 4 13:54:02 EDT 2008 Acquisition finished: Fri Apr 4 13:54:55 EDT 2008</p> <p>Complete representation of known data via generated reports was successful Complete representation of known data via preview-pane was successful ADNs containing foreign characters were acquired and properly displayed Text messages containing foreign characters were acquired and properly displayed</p>																																
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <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-65 Acquisition of ADNs containing foreign language characters.</td> <td>as expected</td> </tr> <tr> <td>A_SIMO-66 Acquisition of text messages containing foreign</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_SIMO-58 Comparison of known SIM data elements via generated reports.	as expected	A_SIMO-59 Comparison of known SIM data elements via preview-pane.	as expected	A_SIMO-65 Acquisition of ADNs containing foreign language characters.	as expected	A_SIMO-66 Acquisition of text messages containing foreign	as expected																						
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A_SIMO-66 Acquisition of text messages containing foreign	as expected																																

Test Case CFT-SIMO-07 Micro Systemation .XRY Version 3.6	
	language characters.
Analysis:	Expected results achieved

### 5.2.73 CFT-SIMO-08 (AT&T SIM)

Test Case CFT-SIMO-08 Micro Systemation .XRY Version 3.6																															
Case Summary:	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.																														
Assertions:	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.																														
Tester Name:	rpa																														
Test Host:	Morrisy																														
Test Date:	Fri Apr 4 13:56:00 EDT 2008																														
Device:	ATT_SIM																														
Source Setup:	OS: WIN XP Interface: USB <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Abbreviated Dialing Numbers (ADN)</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> </tbody> </table>	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
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Log Highlights:	Created By .XRY Version 3.6 Acquisition started: Fri Apr 4 13:56:00 EDT 2008 Acquisition finished: Fri Apr 4 13:57:35 EDT 2008  Remaining number of PIN attempts properly displayed was successful																														
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Assertion & Expected Result	Actual Result																														
A_SIMO-67 Display of remaining number of PIN attempts.	as expected																														
Analysis:	Expected results achieved																														

## 5.2.74 CFT-SIMO-09 (AT&T SIM)

Test Case CFT-SIMO-09 Micro Systemation .XRY Version 3.6																																	
Case Summary:	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.																																
Assertions:	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.																																
Tester Name:	rpa																																
Test Host:	Morrisy																																
Test Date:	Fri Apr 4 13:59:56 EDT 2008																																
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## 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.

To find out more about the National Institute of Justice, please visit:

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800–851–3420  
<http://www.ncjrs.gov>