Test Results for Mobile Device Acquisition Tool: Paraben Device Seizure 2.1
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<td>CFT-SIMO-02 (AT&amp;T SIM)</td>
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<td>CFT-SIMO-04 (AT&amp;T SIM)</td>
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<td>CFT-SIMO-05 (AT&amp;T SIM)</td>
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<tr>
<td>5.2.74</td>
<td>CFT-SIMO-07 (AT&amp;T SIM)</td>
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<td>CFT-SIMO-08 (AT&amp;T SIM)</td>
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<td>CFT-SIMO-09 (AT&amp;T SIM)</td>
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<td>5.2.77</td>
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<tr>
<td>5.2.78</td>
<td>CFT-SIMO-11 (AT&amp;T SIM)</td>
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Introduction

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

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


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: Paraben Device Seizure
Version: 2.1 build 3079.29886
Run Environments: Windows XP Service Pack 2

Supplier: Paraben Corporation
Address: P.O. Box 970483
        Orem UT 84097–0483
Tel: 801–796–0944
Fax: 801–796–0610
WWW: http://www.paraben.com/

1 Results Summary
All supported data objects completely and accurately from the Nokia 6101, T-Mobile SIM, Motorola RAZR V3, and AT&T SIM.
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 Paraben’s Device Seizure and the linked test cases. Table 2 lists the features not available in Paraben’s Device Seizure.

Table 1 Selected Test Cases

<table>
<thead>
<tr>
<th>Supported Optional Feature</th>
<th>Cases selected for execution</th>
</tr>
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<tbody>
<tr>
<td>Base Cases</td>
<td>CFT–IM–(01–10), CFT–SIM–(01–10)</td>
</tr>
<tr>
<td>Acquire mobile device internal memory and review data via supported generated report formats</td>
<td>CFT–IMO–01</td>
</tr>
<tr>
<td>Acquire mobile device internal memory and review reported data via the preview pane</td>
<td>CFT–IMO–02</td>
</tr>
<tr>
<td>Acquire mobile device internal memory and compare reported data via the preview pane</td>
<td>CFT–IMO–03</td>
</tr>
<tr>
<td>Acquire mobile device internal memory and compare reported data via the preview pane and supported generated report formats</td>
<td>CFT–IMO–04</td>
</tr>
<tr>
<td>After a successful mobile device internal memory acquisition, alter the case file via third party means and attempt to reopen the case</td>
<td>CFT–IMO–05</td>
</tr>
<tr>
<td>Perform a physical acquisition and review data output for readability</td>
<td>CFT–IMO–06</td>
</tr>
<tr>
<td>Perform a physical acquisition and review reports for recoverable deleted data</td>
<td>CFT–IMO–09</td>
</tr>
<tr>
<td>Acquire mobile device internal memory and review data containing foreign language characters</td>
<td>CFT–IMO–11</td>
</tr>
<tr>
<td>Acquire mobile device internal memory and review hash values for vendor supported data objects</td>
<td>CFT–IMO–12</td>
</tr>
<tr>
<td>Acquire mobile device internal memory and review the overall case file hash</td>
<td>CFT–IMO–12</td>
</tr>
<tr>
<td>Acquire SIM internal memory and review acquired data via supported generated report formats</td>
<td>CFT–SIMO–01</td>
</tr>
<tr>
<td>Acquire SIM internal memory and review acquired data via the preview pane</td>
<td>CFT–SIMO–02</td>
</tr>
<tr>
<td>Acquire SIM internal memory and compare acquired data via the preview pane and supported generated reports</td>
<td>CFT–SIMO–03</td>
</tr>
<tr>
<td>After a successful SIM internal memory acquisition, alter the case file via third party means and attempt to reopen the case</td>
<td>CFT–SIMO–04</td>
</tr>
<tr>
<td><strong>Acquire SIM internal memory and review reports for recoverable deleted data</strong></td>
<td>CFT–SIMO–05</td>
</tr>
<tr>
<td><strong>Acquire SIM internal memory and review data containing foreign language characters</strong></td>
<td>CFT–SIMO–07</td>
</tr>
<tr>
<td><strong>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</strong></td>
<td>CFT–SIMO–08</td>
</tr>
<tr>
<td><strong>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.</strong></td>
<td>CFT–SIMO–09</td>
</tr>
<tr>
<td><strong>Acquire SIM internal memory and review hash values for vendor supported data objects</strong></td>
<td>CFT–SIMO–10</td>
</tr>
<tr>
<td><strong>Acquire SIM internal memory and review the overall case file hash</strong></td>
<td>CFT–SIMO–11</td>
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**Table 2 Omitted Test Cases**

<table>
<thead>
<tr>
<th><strong>Unsupported Optional Feature</strong></th>
<th><strong>Cases omitted (not executed)</strong></th>
</tr>
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<tr>
<td>Create a SIM access card via vendor documentation</td>
<td>CFT–IMO–07</td>
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<tr>
<td>Acquire mobile device internal memory and review generated log files</td>
<td>CFT–IMO–08</td>
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<tr>
<td>Perform a stand-alone mobile device internal memory acquisition and review the status flags for text messages present on the SIM</td>
<td>CFT–IMO–10</td>
</tr>
<tr>
<td>Acquire SIM internal memory and review generated log files</td>
<td>CFT–SIMO–06</td>
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</table>
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>
<thead>
<tr>
<th>Assertions Tested</th>
<th>Tests</th>
<th>Anomaly</th>
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<tr>
<td>A_IM–01 If a cellular forensic tool provides support for connectivity of the</td>
<td>9</td>
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<tr>
<td>target device then the tool shall successfully recognize the target device via</td>
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<td></td>
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<tr>
<td>all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</td>
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<tr>
<td>A_IM–02 If a cellular forensic tool attempts to connect to a non-supported device</td>
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<td>then the tool shall have the ability to identify that the device is not supported.</td>
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<td>A_IM–03 If a cellular forensic tool encounters disengagement between the</td>
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<tr>
<td>device and application then the application shall notify the user that</td>
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<tr>
<td>connectivity has been disrupted.</td>
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<td>A_IM–04 If a cellular forensic tool successfully completes acquisition of the</td>
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<tr>
<td>target device then the tool shall have the ability to present acquired data</td>
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<tr>
<td>elements in a human-readable format via either a preview pane or generated report.</td>
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<tr>
<td>A_IM–05 If a cellular forensic tool successfully completes acquisition of the</td>
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<tr>
<td>target device then subscriber related information shall be presented in a</td>
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<tr>
<td>human-readable format without modification.</td>
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<tr>
<td>A_IM–06 If a cellular forensic tool successfully completes acquisition of the</td>
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<tr>
<td>target device then equipment related information shall be presented in a</td>
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<tr>
<td>human-readable format without modification.</td>
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<tr>
<td>A_IM–07 If a cellular forensic tool successfully completes acquisition of the</td>
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<tr>
<td>target device then all known address book entries shall be presented in a</td>
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<tr>
<td>human-readable format without modification.</td>
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<tr>
<td>A_IM–08 If a cellular forensic tool successfully completes acquisition of the</td>
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<tr>
<td>target device then all known maximum length address book entries shall be</td>
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<tr>
<td>presented in a human-readable format without modification.</td>
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<tr>
<td>A_IM–09 If a cellular forensic tool successfully completes acquisition of the</td>
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<tr>
<td>target device then all known address book entries containing special characters</td>
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<td>shall be presented in a human-readable format without modification.</td>
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<tr>
<td>A_IM–10 If a cellular forensic tool successfully completes acquisition of the</td>
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<td>target device then all known address book entries containing blank names shall</td>
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<td>be presented in a human-readable format without modification.</td>
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<tr>
<td>A_IM–11 If a cellular forensic tool successfully completes acquisition of the</td>
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<tr>
<td>target device then all known email addresses associated with</td>
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address book entries shall be presented in a human-readable format without modification.

| A_IM–12 | If a cellular forensic tool successfully completes acquisition of the target device then all known graphics associated with address book entries shall be presented in a human-readable format without modification. | 1 |
| 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. | 1 |
| A_IM–14 | If a cellular forensic tool successfully completes acquisition of the target device then all maximum length datebook, calendar, note entries shall be presented in a human-readable format without modification. | 1 |
| A_IM–15 | If a cellular forensic tool successfully completes acquisition of the target device then all call logs (incoming/outgoing) shall be presented in a human-readable format without modification. | 1 |
| A_IM–16 | If a cellular forensic tool successfully completes acquisition of the target device then all text messages (i.e., SMS, EMS) messages shall be presented in a human-readable format without modification. | 1 |
| 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. | 1 |
| 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. | 1 |
| 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. | 1 |
| A_IM–20 | If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone audio files shall be playable via either an internal application or suggested third-party application without modification. | 1 |
| A_IM–21 | If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone image files shall be viewable via either an internal application or suggested third-party application without modification. | 1 |
| A_IM–22 | If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone video files shall be viewable via either an internal application or suggested third-party application without modification. | 1 |
| A_SIM–23 | If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader). | 9 |
| A_SIM–24 | If a cellular forensic tool attempts to connect to a non-supported SIM then the tool shall have the ability to identify that the | 1 |
| A_SIM–25 | If a cellular forensic tool encounters disengagement between the SIM reader and application then the application shall notify the user that connectivity has been disrupted. | 1 |
| A_SIM–26 | If the SIM is password protected then the cellular forensic tool shall provide the examiner with the opportunity to input the PIN before acquisition. | 1 |
| A_SIM–27 | If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview pane or generated report. | 6 |
| A_SIM–29 | If a cellular forensic tool successfully completes acquisition of the target SIM then the ICCID shall be presented in a human-readable format without modification. | 1 |
| A_SIM–30 | If a cellular forensic tool successfully completes acquisition of the target SIM then the IMSI shall be presented in a human-readable format without modification. | 1 |
| 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. | 1 |
| A_SIM–32 | If a cellular forensic tool successfully completes acquisition of the target SIM then all Abbreviated Dialing Numbers (ADN) shall be presented in a human-readable format without modification. | 1 |
| A_SIM–33 | If a cellular forensic tool successfully completes acquisition of the target SIM then all Last Numbers Dialed (LND) shall be presented in a human-readable format without modification. | 1 |
| A_SIM–34 | If a cellular forensic tool successfully completes acquisition of the target SIM then all SMS text messages shall be presented in a human-readable format without modification. | 1 |
| A_SIM–35 | If a cellular forensic tool successfully completes acquisition of the target SIM then all EMS text messages shall be presented in a human-readable format without modification. | 1 |
| A_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. | 1 |
| A_SIM–37 | If a cellular forensic tool successfully completes acquisition of the target SIM then all location related data (i.e., GRPSLOCI) shall be presented in a human-readable format without modification. | 1 |
| A_IMO–38 | If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats. | 8 |
| A_IMO–39 | If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view. | 8 |
| A_IMO–40 | If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain | 1 |
consistency of all reported data elements.

| A.IMO–41 | If modification is attempted to the case file or individual data elements via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification. | 1 |
| A.IMO–42 | If the cellular forensic tool supports a physical acquisition of the target device then the tool shall successfully complete the acquisition and present the data in a human-readable format. | 1 |
| A.IMO–43 | If the cellular forensic tool supports a physical acquisition of address book entries present on the target device then the tool shall report recoverable deleted data or address book data remnants in a human-readable format. | 1 |
| A.IMO–44 | If the cellular forensic tool supports a physical acquisition of calendar, tasks, or notes present on the target device then the tool shall report recoverable deleted calendar, tasks, or note data remnants in a human-readable format. | 1 |
| A.IMO–45 | If the cellular forensic tool supports a physical acquisition of call logs present on the target device then the tool shall report recoverable deleted call or call log data remnants in a human-readable format. | 1 |
| A.IMO–46 | If the cellular forensic tool supports a physical acquisition of SMS messages present on the target device then the tool shall report recoverable deleted SMS messages or SMS message data remnants in a human-readable format. | 1 |
| A.IMO–47 | If the cellular forensic tool supports a physical acquisition of EMS messages present on the target device then the tool shall report recoverable deleted EMS messages or EMS message data remnants in a human-readable format. | 1 |
| A.IMO–48 | If the cellular forensic tool supports a physical acquisition of audio files present on the target device then the tool shall report recoverable deleted audio data or audio file data remnants in a human-readable format. | 1 |
| A.IMO–49 | If the cellular forensic tool supports a physical acquisition of graphic files present on the target device then the tool shall report recoverable deleted graphic file data or graphic file data remnants in a human-readable format. | 1 |
| A.IMO–50 | If the cellular forensic tool supports a physical acquisition of video files present on the target device then the tool shall report recoverable deleted video file data or video file data remnants in a human-readable format. | 1 |
| 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. | 1 |
| 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. | 1 |
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. 1

A.IMO–57 If the cellular forensic tool supports hashing the overall case file then the tool shall present the user with one hash value representing the entire case data. 1

A.SIMO–58 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats. 6

A.SIMO–59 If a cellular forensic tool successfully completes acquisition of the SIM then the tool shall present the acquired data in a human-readable format without modification in a preview-pane view. 6

A.SIMO–60 If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements. 1

A.SIMO–61 If modification is attempted to the case file or individual data elements via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification. 1

A.SIMO–62 If the cellular forensic tool successfully completes acquisition of the target SIM and recoverable deleted SMS messages exist then the tool shall present recoverable deleted data in a human-readable format without modification. 1

A.SIMO–63 If the cellular forensic tool successfully completes acquisition of the target SIM and recoverable deleted EMS messages exist then the tool shall present recoverable deleted data in a human-readable format without modification. 1

A.SIMO–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. 1

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. 1

A.SIMO–67 If a cellular forensic tool provides the examiner with the remaining number of authentication attempts then the application should provide an accurate count of the remaining PIN attempts. 1

A.SIMO–68 If a cellular forensic tool provides the examiner with the remaining number of PUK attempts then the application should provide an accurate count of the remaining PUK attempts. 1

A.SIMO–69 If the cellular forensic tool supports hashing for data objects then the tool shall present the user with a hash value for each supported data object 1

A.SIMO–70 If the cellular forensic tool supports hashing for the...
overall case file then the tool shall present the user with one hash value representative of the entire case data.

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

**Table 4 Assertions Not Tested**

<table>
<thead>
<tr>
<th>Assertions not Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A.IMO–51</strong> If the cellular forensic tool supports SIM access card creation then the card creation shall be completed without errors via manufacturer suggested protocols.</td>
</tr>
<tr>
<td><strong>A.IMO–52</strong> 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.</td>
</tr>
<tr>
<td><strong>A.IMO–55</strong> 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.</td>
</tr>
<tr>
<td><strong>A.SIM–28</strong> 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.</td>
</tr>
<tr>
<td><strong>A.SIMO–64</strong> If a cellular forensic tool supports the creation of log files then the application should present the log files in a human-readable format outlining the acquisition process.</td>
</tr>
</tbody>
</table>
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 computer 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

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

5.2.1 CFT-IM-01 (Nokia 6101)

<table>
<thead>
<tr>
<th>Test Case CFT-IM-01 Paraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case Summary: CFT-IM-01 Acquire mobile device internal memory over supported interfaces (e.g., cable, Bluetooth, IrDA).</td>
</tr>
<tr>
<td>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).</td>
</tr>
<tr>
<td>Tester Name: rpa</td>
</tr>
<tr>
<td>Test Host: Morrisy</td>
</tr>
<tr>
<td>Test Date: Tue Jul 1 08:53:07 EDT 2008</td>
</tr>
<tr>
<td>Device: Nokia 6101</td>
</tr>
</tbody>
</table>

Source Setup:

<table>
<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>
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<tr>
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<td>Outgoing SMS</td>
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<td>Outgoing SMS - Deleted</td>
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<td></td>
<td>Incoming EMS - Read</td>
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<tr>
<td></td>
<td>Incoming EMS - Unread</td>
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<tr>
<td></td>
<td>Incoming Foreign EMS - Read</td>
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<td>Incoming EMS - Deleted</td>
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<tr>
<td></td>
<td>Outgoing EMS</td>
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<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>
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<tr>
<td></td>
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<td>Outgoing Audio</td>
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<td></td>
<td>Outgoing Image</td>
</tr>
<tr>
<td></td>
<td>Outgoing Video</td>
</tr>
<tr>
<td>Stand-alone data files</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>
| Log Highlights: | Created By Device Seizure Version 2.1 Build 3079.29886  
| | Acquisition started: Tue Jul 1 08:53:07 EDT 2008  
| | Acquisition finished: Tue Jul 1 09:11:47 EDT 2008  
| | Device connectivity was established via supported interface  |

| Results: | **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)

<table>
<thead>
<tr>
<th>Test Case CFT-IM-02 Paraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Case Summary:</strong> CFT-IM-02 Attempt internal memory acquisition of a non-supported mobile device.</td>
</tr>
<tr>
<td><strong>Assertions:</strong> 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.</td>
</tr>
<tr>
<td><strong>Tester Name:</strong> rpa</td>
</tr>
<tr>
<td><strong>Test Host:</strong> Morrisy</td>
</tr>
<tr>
<td><strong>Test Date:</strong> Tue Jul 1 09:12:34 EDT 2008</td>
</tr>
<tr>
<td><strong>Device:</strong> non-supported_device</td>
</tr>
</tbody>
</table>

#### Source Setup:
- **OS:** WIN XP
- **Interface:** cable

#### DATA OBJECTS

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address Book Entries</td>
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<td>Regular Length, email, picture</td>
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<tr>
<td>Blank Name</td>
</tr>
<tr>
<td>Regular Length, Deleted email - deleted picture</td>
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<tr>
<td>Deleted Entry</td>
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<td>Foreign Entry</td>
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</table>

<table>
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<tr>
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<tr>
<td>Deleted Entry</td>
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<td>Special Character</td>
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<table>
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<tr>
<th>DATA ELEMENTS</th>
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</thead>
<tbody>
<tr>
<td>Call Logs</td>
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<tr>
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<tr>
<td>Missed - Deleted</td>
</tr>
<tr>
<td>Incoming</td>
</tr>
<tr>
<td>Incoming - Deleted</td>
</tr>
<tr>
<td>Outgoing</td>
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<td>Outgoing - Deleted</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
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</thead>
<tbody>
<tr>
<td>Text Messages</td>
</tr>
<tr>
<td>Incoming SMS - Read</td>
</tr>
<tr>
<td>Incoming SMS - Unread</td>
</tr>
<tr>
<td>Incoming SMS - Deleted</td>
</tr>
<tr>
<td>Outgoing SMS</td>
</tr>
<tr>
<td>Outgoing SMS - Deleted</td>
</tr>
<tr>
<td>Incoming EMS - Read</td>
</tr>
<tr>
<td>Incoming EMS - Unread</td>
</tr>
<tr>
<td>Incoming Foreign EMS - Read</td>
</tr>
<tr>
<td>Incoming EMS - Deleted</td>
</tr>
<tr>
<td>Outgoing EMS</td>
</tr>
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<td>Outgoing EMS - Deleted</td>
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</table>

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMS Messages</td>
</tr>
<tr>
<td>Incoming Audio</td>
</tr>
<tr>
<td>Incoming Image</td>
</tr>
<tr>
<td>Incoming Video</td>
</tr>
<tr>
<td>Outgoing Audio</td>
</tr>
<tr>
<td>Outgoing Image</td>
</tr>
<tr>
<td>Outgoing Video</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stand-alone data files</td>
</tr>
<tr>
<td>Audio</td>
</tr>
<tr>
<td>Audio - Deleted</td>
</tr>
<tr>
<td>Image</td>
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<tr>
<td>Image - Deleted</td>
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<td>Video</td>
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</tbody>
</table>

Log Created By Device Seizure Version 2.1 Build 3079.29886

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<table>
<thead>
<tr>
<th>Test Case CFT-IM-02 Paraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Highlights:</strong></td>
</tr>
<tr>
<td>Acquisition started: Tue Jul 1 09:12:34 EDT 2008</td>
</tr>
<tr>
<td>Acquisition finished: Tue Jul 1 09:13:53 EDT 2008</td>
</tr>
<tr>
<td>Identification of non-supported devices was successful</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Results:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assertion &amp; Expected Result</strong></td>
</tr>
<tr>
<td>A.IM-02 Identification of non-supported devices.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Analysis:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Expected results achieved</td>
</tr>
</tbody>
</table>
### Test Case CFT-IM-03 (Nokia 6101)

**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

**Test Host:** Morrisy

**Test Date:** Tue Jul 1 09:14:22 EDT 2008

**Device:** Nokia 6101

**Source Setup:**
- OS: WIN XP
- Interface: cable

<table>
<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>
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<td></td>
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<td>Special Character</td>
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<td>Blank Name</td>
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<td></td>
<td>Regular Length, Deleted email - deleted picture</td>
</tr>
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<td></td>
<td>Deleted Entry</td>
</tr>
<tr>
<td></td>
<td>Foreign Entry</td>
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<td>PIM Data</td>
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<td>Regular Length</td>
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<td></td>
<td>Deleted Entry</td>
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<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>
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<td>Outgoing</td>
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<tr>
<td></td>
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</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>
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<tr>
<td></td>
<td>Outgoing SMS</td>
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<tr>
<td></td>
<td>Outgoing SMS - Deleted</td>
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<tr>
<td></td>
<td>Incoming EMS - Read</td>
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<td></td>
<td>Incoming EMS - Unread</td>
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<td>Incoming Foreign EMS - Read</td>
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<td>Outgoing EMS</td>
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<td>Outgoing EMS - Deleted</td>
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<tr>
<td>MMS Messages</td>
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<td></td>
<td>Incoming Audio</td>
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<td>Incoming Image</td>
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<td>Outgoing Image</td>
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<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>
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<td></td>
<td>Image</td>
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<td>Video</td>
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</tbody>
</table>

---

5.2.3 CFT-IM-03 (Nokia 6101)
<table>
<thead>
<tr>
<th>Log Highlights:</th>
<th>Created By Device Seizure Version 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acquisition started: Tue Jul 1 09:14:22 EDT 2008</td>
</tr>
<tr>
<td></td>
<td>Acquisition finished: Tue Jul 1 09:15:48 EDT 2008</td>
</tr>
<tr>
<td></td>
<td>Device connectivity was established via supported interface</td>
</tr>
<tr>
<td></td>
<td>Device acquisition disruption notification was successful</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Results:</th>
<th>Assertion &amp; Expected Result</th>
<th>Actual Result</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A_IM-01 Device connectivity via supported interfaces.</td>
<td>as expected</td>
</tr>
<tr>
<td></td>
<td>A_IM-03 Notification of device acquisition disruption.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

| Analysis:      | Expected results achieved                    |
5.2.4 CFT-IM-04 (Nokia 6101)

<table>
<thead>
<tr>
<th>Test Case CFT-IM-04 Paraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Case Summary:</strong> CFT-IM-04 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.</td>
</tr>
<tr>
<td><strong>Assertions:</strong> 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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tester Name: rpa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Host: Morrisy</td>
</tr>
<tr>
<td>Test Date: Tue Jul 1 09:16:32 EDT 2008</td>
</tr>
<tr>
<td>Device: Nokia 6101</td>
</tr>
<tr>
<td>Source OS: WIN XP</td>
</tr>
<tr>
<td>Setup Interface: cable</td>
</tr>
</tbody>
</table>

<table>
<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>
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<td>Blank Name</td>
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<td></td>
<td>Regular Length, Deleted email - deleted picture</td>
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<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>
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<tr>
<td></td>
<td>Outgoing Video</td>
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<table>
<thead>
<tr>
<th>Stand-alone data files</th>
<th>Audio</th>
</tr>
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<tbody>
<tr>
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<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>
<tr>
<td>Test Case CFT-IM-04 Paraben Device Seizure 2.1 Build 3079.29886</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Log Highlights:</td>
<td></td>
</tr>
<tr>
<td>Created By Device Seizure Version 2.1 Build 3079.29886</td>
<td></td>
</tr>
<tr>
<td>Acquisition started: Tue Jul 1 09:16:32 EDT 2008</td>
<td></td>
</tr>
<tr>
<td>Acquisition finished: Tue Jul 1 09:19:28 EDT 2008</td>
<td></td>
</tr>
<tr>
<td>Device connectivity was established via supported interface</td>
<td></td>
</tr>
<tr>
<td>Readability and completeness of acquired data was successful</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Results:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assertion &amp; Expected Result</strong></td>
</tr>
<tr>
<td><strong>Actual Result</strong></td>
</tr>
<tr>
<td>A_IM-01 Device connectivity via supported interfaces.</td>
</tr>
<tr>
<td>A_IM-04 Readability and completeness of acquired data via</td>
</tr>
<tr>
<td>supported reports.</td>
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</table>

<table>
<thead>
<tr>
<th>Analysis:</th>
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<tbody>
<tr>
<td>Expected results achieved</td>
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</table>
### 5.2.5 CFT-IM-05 (Nokia 6101)

<table>
<thead>
<tr>
<th>Test Case CFT-IM-05</th>
<th>Paraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Case Summary:</strong></td>
<td>CFT-IM-05 Acquire mobile device internal memory and review reported subscriber and equipment related information (i.e., IMEI, MSISDN).</td>
</tr>
<tr>
<td><strong>Assertions:</strong></td>
<td>A.IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A.IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report. A.IM-05 If a cellular forensic tool successfully completes acquisition of the target device then subscriber related information shall be presented in a human-readable format without modification. A.IM-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.</td>
</tr>
<tr>
<td><strong>Tester Name:</strong></td>
<td>rpa</td>
</tr>
<tr>
<td><strong>Test Host:</strong></td>
<td>Morrisy</td>
</tr>
<tr>
<td><strong>Test Date:</strong></td>
<td>Tue Jul 1 09:20:18 EDT 2008</td>
</tr>
<tr>
<td><strong>Device:</strong></td>
<td>Nokia 6101</td>
</tr>
<tr>
<td><strong>Source OS:</strong></td>
<td>OS: WIN XP</td>
</tr>
<tr>
<td><strong>Interface:</strong></td>
<td>Interface: cable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>DATA OBJECTS</strong></th>
<th><strong>DATA ELEMENTS</strong></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>
</tbody>
</table>

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# Test Case CFT-IM-05 Paraben Device Seizure 2.1 Build 3079.29886

<table>
<thead>
<tr>
<th>Audio</th>
<th>Audio - Deleted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image</td>
<td>Image - Deleted</td>
</tr>
<tr>
<td>Video</td>
<td>Video - Deleted</td>
</tr>
</tbody>
</table>

## Log Highlights:
- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Tue Jul 1 09:20:18 EDT 2008
- Acquisition finished: Tue Jul 1 09:22:37 EDT 2008

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

## Results:

<table>
<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>as expected</td>
</tr>
<tr>
<td>A IM-06 Acquisition of IMEI.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

## Analysis:
- Expected results achieved
5.2.6 CFT-IM-06 (Nokia 6101)

**Test Case CFT-IM-06 Paraben Device Seizure 2.1 Build 3079.29886**

| Case Summary: | CFT-IM-06 Acquire mobile device internal memory and review reported PIM related data. |
| Assertiions: | A.IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).  
A.IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.  
A.IM-07 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries shall be presented in a human-readable format without modification.  
A.IM-08 If a cellular forensic tool successfully completes acquisition of the target device then all known maximum length address book entries shall be presented in a human-readable format without modification.  
A.IM-09 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing special characters shall be presented in a human-readable format without modification.  
A.IM-10 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing blank names shall be presented in a human-readable format without modification.  
A.IM-11 If a cellular forensic tool successfully completes acquisition of the target device then all known email addresses associated with address book entries shall be presented in a human-readable format without modification.  
A.IM-12 If a cellular forensic tool successfully completes acquisition of the target device then all known graphics associated with address book entries shall be presented in a human-readable format without modification.  
A.IM-13 If a cellular forensic tool successfully completes acquisition of the target device then all known datebook, calendar, note entries shall be presented in a human-readable format without modification.  
A.IM-14 If a cellular forensic tool successfully completes acquisition of the target device then all maximum length datebook, calendar, note entries shall be presented in a human readable format without modification. |

**Tester**

- Name: rpa  
- Test Host: Morrisy  
- Test Date: Tue Jul 1 09:35:25 EDT 2008  
- Device: Nokia 6101  
- Source OS: WIN XP  
- Setup Interface: cable

**DATA OBJECTS**

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
</table>
| 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**

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Length</td>
<td></td>
</tr>
</tbody>
</table>
| Regular Length  
| Deleted Entry  
| Special Character |

**Call Logs**

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Missed</td>
<td></td>
</tr>
</tbody>
</table>
| Missed - Deleted  
| Incoming  
| Incoming - Deleted  
| Outgoing  
| Outgoing - Deleted |

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Text Messages</td>
<td></td>
</tr>
</tbody>
</table>

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Test Case CFT-IM-06 Paraben Device Seizure 2.1 Build 3079.29886

<table>
<thead>
<tr>
<th>Message Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incoming SMS</td>
<td>Read</td>
</tr>
<tr>
<td></td>
<td>Unread</td>
</tr>
<tr>
<td></td>
<td>Deleted</td>
</tr>
<tr>
<td>Outgoing SMS</td>
<td></td>
</tr>
<tr>
<td>Outgoing SMS</td>
<td>Deleted</td>
</tr>
<tr>
<td>Incoming EMS</td>
<td>Read</td>
</tr>
<tr>
<td></td>
<td>Unread</td>
</tr>
<tr>
<td></td>
<td>Deleted</td>
</tr>
<tr>
<td>Outgoing EMS</td>
<td></td>
</tr>
<tr>
<td>Outgoing EMS</td>
<td>Deleted</td>
</tr>
</tbody>
</table>

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 Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Tue Jul 1 09:35:25 EDT 2008
Acquisition finished: Tue Jul 1 09:52:06 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:
Long notes (3000 characters) were reported when performing a physical acquisition of the device.

Results:

<table>
<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-07 Acquisition of address book entries.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IM-08 Acquisition of maximum length address book entries.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IM-09 Acquisition of address book entries containing special characters.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IM-10 Acquisition of address book entries containing a blank name entry.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IM-11 Acquisition of embedded email addresses within address book entries.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IM-12 Acquisition of embedded graphics within address book entries.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IM-13 Acquisition of PIM data (i.e., datebook/calendar, notes).</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IM-14 Acquisition of maximum length PIM data.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

Analysis: Expected results achieved
5.2.7 CFT-IM-07 (Nokia 6101)

Test Case CFT-IM-07 Paraben Device Seizure 2.1 Build 3079.29886

Case Summary: CFT-IM-07 Acquire mobile device internal memory and review reported call logs.

Assertions:
A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.
A_IM-15 If a cellular forensic tool successfully completes acquisition of the target device then all call logs (incoming/outgoing) shall be presented in a human-readable format without modification.

Tester Name: rpa
Test Host: Morrisy
Test Date: Tue Jul 1 13:25:06 EDT 2008
Device: Nokia 6101

Source OS: WIN XP
Interface: cable

<table>
<thead>
<tr>
<th>DATA OBJECTS</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address Book Entries</td>
<td>Maximum Length, Regular Length, email, picture, Blank Name, Special Character, Deleted Entry, Deleted email - deleted picture, Regular Length, Deleted email - deleted picture, Deleted Entry, Deleted Entry, Special Character</td>
</tr>
<tr>
<td>PIM Data</td>
<td>Maximum Length, Regular Length, Deleted Entry, Special Character</td>
</tr>
<tr>
<td>Call Logs</td>
<td>Missed, Missed - Deleted, Incoming, Incoming - Deleted, Outgoing, Outgoing - Deleted</td>
</tr>
<tr>
<td>Text Messages</td>
<td>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</td>
</tr>
<tr>
<td>MMS Messages</td>
<td>Incoming Audio, Incoming Image, Incoming Video, Outgoing Audio, Outgoing Image, Outgoing Video</td>
</tr>
<tr>
<td>Stand-alone data files</td>
<td>Audio, Audio - Deleted, Image</td>
</tr>
<tr>
<td>Test Case CFT-IM-07 Paraben Device Seizure 2.1 Build 3079.29886</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Image - Deleted</td>
<td></td>
</tr>
<tr>
<td>Video</td>
<td></td>
</tr>
<tr>
<td>Video - Deleted</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Log Highlights:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Created By Device Seizure Version 2.1 Build 3079.29886</td>
</tr>
<tr>
<td>Acquisition started: Tue Jul 1 13:25:06 EDT 2008</td>
</tr>
<tr>
<td>Acquisition finished: Tue Jul 1 13:26:53 EDT 2008</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Results:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assertion &amp; Expected Result</strong></td>
</tr>
<tr>
<td><strong>Actual Result</strong></td>
</tr>
<tr>
<td>A.IM-01 Device connectivity via supported interfaces.</td>
</tr>
<tr>
<td>as expected</td>
</tr>
<tr>
<td>A.IM-04 Readability and completeness of acquired data via</td>
</tr>
<tr>
<td>supported reports.</td>
</tr>
<tr>
<td>as expected</td>
</tr>
<tr>
<td>A.IM-15 Acquisition of call logs.</td>
</tr>
<tr>
<td>as expected</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Analysis:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expected results achieved</td>
</tr>
</tbody>
</table>
5.2.8 CFT-IM-08 (Nokia 6101)

### Test Case CFT-IM-08 Paraben Device Seizure 2.1 Build 3079.29886

<table>
<thead>
<tr>
<th>Case Summary</th>
<th>CFT-IM-08 Acquire mobile device internal memory and review reported text messages.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assertions</td>
<td>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report. A_IM-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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tester Name</th>
<th>rpa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Host</td>
<td>Morrisy</td>
</tr>
<tr>
<td>Test Date</td>
<td>Tue Jul 1 13:27:16 EDT 2008</td>
</tr>
<tr>
<td>Device</td>
<td>Nokia 6101</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Source OS</th>
<th>WIN XP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interface</td>
<td>cable</td>
</tr>
</tbody>
</table>

<table>
<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>
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<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>
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<tr>
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<td>Outgoing Audio</td>
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<td>Outgoing Image</td>
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<tr>
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<td>Outgoing Video</td>
</tr>
<tr>
<td>Stand-alone data files</td>
<td>Audio</td>
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<tr>
<td></td>
<td>Audio - Deleted</td>
</tr>
<tr>
<td></td>
<td>Image</td>
</tr>
</tbody>
</table>
**Log Highlights:**

- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Tue Jul 1 13:27:16 EDT 2008
- Acquisition finished: Tue Jul 1 13:29:25 EDT 2008

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

**Results:**

<table>
<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-16 Acquisition of text messages.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

**Analysis:**

Expected results achieved
5.2.9  CFT-IM-09 (Nokia 6101)

Test Case CFT-IM-09 Paraben Device Seizure 2.1 Build 3079.29886

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:
A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.
A_IM-17 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated audio shall be presented properly without modification.
A_IM-18 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated images shall be presented properly without modification.
A_IM-19 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated video shall be presented properly without modification.

Tester Name: rpa
Test Host: Morrisy
Test Date: Tue Jul 1 13:29:52 EDT 2008
Device: Nokia 6101
Source OS: WIN XP
Setup: Interface: cable

<table>
<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>
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<tr>
<td></td>
<td>Blank Name</td>
</tr>
<tr>
<td></td>
<td>Regular Length, Deleted email - deleted picture</td>
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<td>Deleted Entry</td>
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<tr>
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<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>
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<td>Incoming - Deleted</td>
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<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>
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<tr>
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<td>Incoming EMS - Read</td>
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<td>Outgoing EMS</td>
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<tr>
<td>MMS Messages</td>
<td>Incoming Audio</td>
</tr>
<tr>
<td></td>
<td>Incoming Image</td>
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<td></td>
<td>Incoming Video</td>
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<td>Outgoing Audio</td>
</tr>
</tbody>
</table>

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# Test Case CFT-IM-09 Paraben Device Seizure 2.1 Build 3079.29886

## Stand-alone data files
- Audio
- Audio - Deleted
- Image
- Image - Deleted
- Video
- Video - Deleted

## Log Highlights:
- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Tue Jul 1 13:29:52 EDT 2008
- Acquisition finished: Tue Jul 1 14:01:55 EDT 2008

Device connectivity was established via supported interface
Readability and completeness of acquired data was successful
ALL MMS messages (Audio, Image, Video) were acquired

## Results:

<table>
<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>

## Analysis:
Expected results achieved
5.2.10 CFT-IM-10 (Nokia 6101)

<table>
<thead>
<tr>
<th>Test Case CFT-IM-10 Paraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Case Summary:</strong> CFT-IM-10 Acquire mobile device internal memory and review reported stand-alone media data (i.e., audio, graphics, video).</td>
</tr>
<tr>
<td><strong>Assertions:</strong></td>
</tr>
<tr>
<td>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tester</th>
<th>rpa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name:</td>
<td></td>
</tr>
<tr>
<td>Test Host:</td>
<td>Morrisy</td>
</tr>
<tr>
<td>Test Date:</td>
<td>Tue Jul 1 14:02:22 EDT 2008</td>
</tr>
<tr>
<td>Device:</td>
<td>Nokia 6101</td>
</tr>
<tr>
<td>Source OS:</td>
<td>WIN XP</td>
</tr>
<tr>
<td>Setup:</td>
<td>Interface: cable</td>
</tr>
</tbody>
</table>

<table>
<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>
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<td>Special Character</td>
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<td></td>
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<tr>
<td></td>
<td>Deleted Entry</td>
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<td>Special Character</td>
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<tr>
<td>Call Logs</td>
<td>Missed</td>
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<tr>
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<tr>
<td></td>
<td>Incoming</td>
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<td>Outgoing - Deleted</td>
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<tr>
<td>Text Messages</td>
<td>Incoming SMS - Read</td>
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<td>Incoming SMS - Unread</td>
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</tr>
<tr>
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<td>Incoming EMS - Read</td>
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<td>MMS Messages</td>
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</tbody>
</table>

October 2008 31 of 134 Results of Device Seizure V2.1 8/2008
### Test Case CFT-IM-10 Paraben Device Seizure 2.1 Build 3079.29886

<table>
<thead>
<tr>
<th>Incoming Image</th>
<th>Incoming Video</th>
<th>Outgoing Audio</th>
<th>Outgoing Image</th>
<th>Outgoing Video</th>
</tr>
</thead>
</table>

**Stand-alone data files**

<table>
<thead>
<tr>
<th>Audio</th>
<th>Audio - Deleted</th>
<th>Image</th>
<th>Image - Deleted</th>
<th>Video</th>
<th>Video - Deleted</th>
</tr>
</thead>
</table>

### Log

**Highlights:**

- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Tue Jul 1 14:02:22 EDT 2008
- Acquisition finished: Tue Jul 1 14:22:53 EDT 2008

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

### Results:

<table>
<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-20 Acquisition of stand-alone audio files.</td>
<td>as expected</td>
</tr>
<tr>
<td>A IM-21 Acquisition of stand-alone graphic files.</td>
<td>as expected</td>
</tr>
<tr>
<td>A IM-22 Acquisition of stand-alone video files.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

### Analysis:

Expected results achieved
### Test Case CFT-IMO-01 (Nokia 6101)

#### Case Summary:
CFT-IMO-01 Acquire mobile device internal memory and review reported data via supported generated report formats.

#### Assertions:
A.IMO-38 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.

#### Tester Name:
rpa

#### Test Host:
Morrisy

#### Test Date:
Wed Jul 2 11:43:04 EDT 2008

#### Device:
Nokia 6101

#### Source Setup:
<table>
<thead>
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<th>DATA ELEMENTS</th>
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</thead>
<tbody>
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<td>Address Book Entries</td>
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</tr>
<tr>
<td>Regular Length, email, picture</td>
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<td>Blank Name</td>
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<td>Special Character</td>
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</tr>
<tr>
<td>Regular Length, Deleted email - deleted picture</td>
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</tr>
<tr>
<td>Deleted Entry</td>
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</tr>
<tr>
<td>Foreign Entry</td>
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<tr>
<td>Call Logs</td>
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<tr>
<td>Missed</td>
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<td>Missed - Deleted</td>
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<tr>
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<tr>
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<td></td>
</tr>
<tr>
<td>Text Messages</td>
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</tr>
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<td>Incoming SMS - Read</td>
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</tr>
<tr>
<td>Incoming SMS - Unread</td>
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<td>Incoming SMS - Deleted</td>
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<td>Outgoing SMS - Deleted</td>
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<tr>
<td>Incoming EMS - Read</td>
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<tr>
<td>Incoming EMS - Unread</td>
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<td>Incoming Foreign EMS - Read</td>
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<td>Stand-alone data files</td>
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Log Created By Device Seizure Version 2.1 Build 3079.29886
<table>
<thead>
<tr>
<th>Test Case CFT-IMO-01 Paraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highlights:</td>
</tr>
<tr>
<td>Complete representation of known data via generated reports was successful</td>
</tr>
<tr>
<td>Results:</td>
</tr>
<tr>
<td><strong>Assertion &amp; Expected Result</strong></td>
</tr>
<tr>
<td><strong>Actual Result</strong></td>
</tr>
<tr>
<td>A.IMO-38 Comparison of known device data elements via generated reports.</td>
</tr>
<tr>
<td>Analysis:</td>
</tr>
<tr>
<td>Expected results achieved</td>
</tr>
</tbody>
</table>
Case Summary: CFT-IMO-02 Acquire mobile device internal memory and review reported data via the preview-pane.

Assertions: A.IMO-39 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.

Tester Name: rpa
Test Host: Morrisy
Test Date: Wed Jul 2 11:48:04 EDT 2008
Device: Nokia 6101

Source Setup:

<table>
<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>
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<td></td>
<td>Blank Name</td>
</tr>
<tr>
<td></td>
<td>Regular Length, Deleted email - deleted picture</td>
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<tr>
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<td>Foreign Entry</td>
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<td>PIM Data</td>
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<td>Deleted Entry</td>
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<td></td>
<td>Special Character</td>
</tr>
<tr>
<td>Call Logs</td>
<td>Missed</td>
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<td>Missed - Deleted</td>
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<td>Incoming</td>
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<td></td>
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</tr>
<tr>
<td>Text Messages</td>
<td>Incoming SMS - Read</td>
</tr>
<tr>
<td></td>
<td>Incoming SMS - Unread</td>
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<tr>
<td>MMS Messages</td>
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</tbody>
</table>

Log Created By Device Seizure Version 2.1 Build 3079.29886
## Test Case CFT-IMO-02 Paraben Device Seizure 2.1 Build 3079.29886

|            | Complete representation of known data via preview-pane was successful |
| Results:   | **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 Paraben Device Seizure 2.1 Build 3079.29886

Case Summary: CFT-IMO-03 Acquire mobile device internal memory and compare reported data via the preview-pane and supported generated reports.

Assertions:
A.IMO-38 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.
A.IMO-39 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.
A.IMO-40 If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements.

Tester Name: rpa
Test Host: Morrisy
Test Date: Wed Jul 2 12:14:09 EDT 2008
Device: Nokia 6101
Source OS: WIN XP
Setup: Interface: cable

<table>
<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>
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<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>
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<tr>
<td>PIM Data</td>
<td>Maximum Length</td>
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<td>Regular Length</td>
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<tr>
<td></td>
<td>Special Character</td>
</tr>
<tr>
<td>Call Logs</td>
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</tr>
<tr>
<td></td>
<td>Missed - Deleted</td>
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<tr>
<td></td>
<td>Incoming</td>
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<tr>
<td></td>
<td>Outgoing</td>
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</tr>
<tr>
<td>Text Messages</td>
<td>Incoming SMS - Read</td>
</tr>
<tr>
<td></td>
<td>Incoming SMS - Unread</td>
</tr>
<tr>
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<td>Incoming SMS - Deleted</td>
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<td>Incoming EMS - Read</td>
</tr>
<tr>
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<td>Incoming EMS - Unread</td>
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<tr>
<td></td>
<td>Incoming Foreign EMS - Read</td>
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<td>Outgoing EMS</td>
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<td>Outgoing EMS - Deleted</td>
</tr>
<tr>
<td>MMS Messages</td>
<td>Incoming Audio</td>
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<td>Outgoing Video</td>
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<tr>
<td>Stand-alone data files</td>
<td>Audio</td>
</tr>
<tr>
<td></td>
<td>Audio - Deleted</td>
</tr>
<tr>
<td></td>
<td>Image</td>
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<tr>
<td></td>
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<td></td>
<td>Video</td>
</tr>
<tr>
<td>Test Case CFT-IMO-03 Paraben Device Seizure 2.1 Build 3079.29886</td>
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<td>Video - Deleted</td>
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<thead>
<tr>
<th>Log Highlights:</th>
<th>Created By Device Seizure Version 2.1 Build 3079.29886</th>
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<tbody>
<tr>
<td>Acquisition finished:</td>
<td>Wed Jul 2 12:18:03 EDT 2008</td>
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<tr>
<td>Complete representation of known data via generated reports was successful</td>
<td></td>
</tr>
<tr>
<td>Complete representation of known data via preview-pane was successful</td>
<td></td>
</tr>
<tr>
<td>Consistency between generated reports and preview-pane was successful</td>
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</table>

<table>
<thead>
<tr>
<th>Results:</th>
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<tbody>
<tr>
<td>Assertion &amp; Expected Result</td>
</tr>
<tr>
<td>---------------------------</td>
</tr>
<tr>
<td>A.IMO-38 Comparison of known device data elements via generated reports.</td>
</tr>
<tr>
<td>A.IMO-39 Comparison of known device data elements via preview-pane.</td>
</tr>
<tr>
<td>A.IMO-40 Compare generated reports and preview-pane views for device acquisition.</td>
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<table>
<thead>
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<th>Analysis:</th>
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<td>Expected results achieved</td>
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### Test Case CFT-IMO-04 (Nokia 6101)

**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.

<table>
<thead>
<tr>
<th>Tester Name:</th>
<th>rpa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Host:</td>
<td>Morrisy</td>
</tr>
<tr>
<td>Device:</td>
<td>Nokia 6101</td>
</tr>
</tbody>
</table>

| Source Setup: | OS: WIN XP Interface: cable |

<table>
<thead>
<tr>
<th>DATA OBJECTS</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address Book Entries</td>
<td></td>
</tr>
<tr>
<td>Maximum Length</td>
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<tr>
<td>Regular Length, email, picture</td>
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<td>Special Character</td>
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<tr>
<td>Blank Name</td>
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<tr>
<td>Regular Length, Deleted email - deleted picture</td>
<td></td>
</tr>
<tr>
<td>Deleted Entry</td>
<td></td>
</tr>
<tr>
<td>Foreign Entry</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>PIM Data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Length</td>
<td></td>
</tr>
<tr>
<td>Regular Length</td>
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</tr>
<tr>
<td>Deleted Entry</td>
<td></td>
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<tr>
<td>Special Character</td>
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<table>
<thead>
<tr>
<th>Call Logs</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>Missed - Deleted</td>
<td></td>
</tr>
<tr>
<td>Incoming</td>
<td></td>
</tr>
<tr>
<td>Incoming - Deleted</td>
<td></td>
</tr>
<tr>
<td>Outgoing</td>
<td></td>
</tr>
<tr>
<td>Outgoing - Deleted</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Text Messages</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Incoming SMS - Read</td>
<td></td>
</tr>
<tr>
<td>Incoming SMS - Unread</td>
<td></td>
</tr>
<tr>
<td>Incoming SMS - Deleted</td>
<td></td>
</tr>
<tr>
<td>Outgoing SMS</td>
<td></td>
</tr>
<tr>
<td>Outgoing SMS - Deleted</td>
<td></td>
</tr>
<tr>
<td>Incoming EMS - Read</td>
<td></td>
</tr>
<tr>
<td>Incoming EMS - Unread</td>
<td></td>
</tr>
<tr>
<td>Incoming Foreign EMS - Read</td>
<td></td>
</tr>
<tr>
<td>Incoming EMS - Deleted</td>
<td></td>
</tr>
<tr>
<td>Outgoing EMS</td>
<td></td>
</tr>
<tr>
<td>Outgoing EMS - Deleted</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MMS Messages</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Incoming Audio</td>
<td></td>
</tr>
<tr>
<td>Incoming Image</td>
<td></td>
</tr>
<tr>
<td>Incoming Video</td>
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</tr>
<tr>
<td>Outgoing Audio</td>
<td></td>
</tr>
<tr>
<td>Outgoing Image</td>
<td></td>
</tr>
<tr>
<td>Outgoing Video</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stand-alone data files</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio</td>
<td></td>
</tr>
<tr>
<td>Audio - Deleted</td>
<td></td>
</tr>
<tr>
<td>Image</td>
<td></td>
</tr>
<tr>
<td>Image - Deleted</td>
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</tr>
<tr>
<td>Video</td>
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<tr>
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<table>
<thead>
<tr>
<th>Test Case CFT-IMO-04 Paraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Highlights:</strong></td>
</tr>
<tr>
<td>Notification of modified case data was successful</td>
</tr>
<tr>
<td><strong>Results:</strong></td>
</tr>
<tr>
<td><strong>Assertion &amp; Expected Result</strong></td>
</tr>
<tr>
<td>A.IMO-41 Notification of modified device case data.</td>
</tr>
<tr>
<td><strong>Actual Result</strong></td>
</tr>
<tr>
<td>as expected</td>
</tr>
<tr>
<td><strong>Analysis:</strong></td>
</tr>
<tr>
<td>Expected results achieved</td>
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## 5.2.15 CFT-IMO-05 (Nokia 6101)

<table>
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<tr>
<th>Test Case CFT-IMO-05 Paraben Device Seizure 2.1 Build 3079.29086</th>
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</thead>
<tbody>
<tr>
<td><strong>Case Summary:</strong> CFT-IMO-05 Perform a physical acquisition and review data output for readability.</td>
</tr>
<tr>
<td><strong>Assertions:</strong></td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>A.IMO-42 If the cellular forensic tool supports a physical acquisition of the target device then the tool shall successfully complete the acquisition and present the data in a human-readable format.</td>
</tr>
<tr>
<td><strong>Tester Name:</strong> rpa</td>
</tr>
<tr>
<td><strong>Test Host:</strong> Morrisy</td>
</tr>
<tr>
<td><strong>Test Date:</strong> Wed Jul 2 13:49:35 EDT 2008</td>
</tr>
<tr>
<td><strong>Device:</strong> Nokia 6101</td>
</tr>
<tr>
<td><strong>Source OS:</strong> WIN XP</td>
</tr>
<tr>
<td><strong>Setup:</strong> Interface: cable</td>
</tr>
</tbody>
</table>

### DATA OBJECTS

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address Book Entries</td>
</tr>
<tr>
<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>PIM Data</td>
</tr>
<tr>
<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>Call Logs</td>
</tr>
<tr>
<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>
</tr>
<tr>
<td>Incoming SMS - Read</td>
</tr>
<tr>
<td>Incoming SMS - Unread</td>
</tr>
<tr>
<td>Incoming SMS - Deleted</td>
</tr>
<tr>
<td>Outgoing SMS</td>
</tr>
<tr>
<td>Outgoing SMS - Deleted</td>
</tr>
<tr>
<td>Incoming EMS - Read</td>
</tr>
<tr>
<td>Incoming EMS - Unread</td>
</tr>
<tr>
<td>Incoming Foreign EMS - Read</td>
</tr>
<tr>
<td>Incoming EMS - Deleted</td>
</tr>
<tr>
<td>Outgoing EMS</td>
</tr>
<tr>
<td>Outgoing EMS - Deleted</td>
</tr>
<tr>
<td>MMS Messages</td>
</tr>
<tr>
<td>Incoming Audio</td>
</tr>
<tr>
<td>Incoming Image</td>
</tr>
<tr>
<td>Incoming Video</td>
</tr>
<tr>
<td>Outgoing Audio</td>
</tr>
<tr>
<td>Outgoing Image</td>
</tr>
<tr>
<td>Outgoing Video</td>
</tr>
<tr>
<td>Stand-alone data files</td>
</tr>
<tr>
<td>Audio</td>
</tr>
<tr>
<td>Audio - Deleted</td>
</tr>
<tr>
<td>Image</td>
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<td>Image - Deleted</td>
</tr>
<tr>
<td>Video</td>
</tr>
<tr>
<td>Test Case CFT-IMO-05 Paraben Device Seizure 2.1 Build 3079.29886</td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
</tr>
<tr>
<td>Video - Deleted</td>
</tr>
</tbody>
</table>

| Log Highlights:                                                                                       |
| Created By Device Seizure Version 2.1 Build 3079.29886                                                                 |
| Complete representation of known data via generated reports was successful                              |
| Complete representation of known data via preview-pane was successful                                    |
| Physical Acquisition: readability and completeness was successful                                      |

<table>
<thead>
<tr>
<th>Results:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assertion &amp; Expected Result</strong></td>
</tr>
<tr>
<td>A.IMO-38 Comparison of known device data elements via generated reports.</td>
</tr>
<tr>
<td>A.IMO-39 Comparison of known device data elements via preview-pane.</td>
</tr>
<tr>
<td>A.IMO-42 Readability and completeness of data acquired via a physical acquisition.</td>
</tr>
</tbody>
</table>

| Analysis:                                                                                                   |
| Expected results achieved                                                                                    |
5.2.16 CFT-IMO-06 (Nokia 6101)

Test Case CFT-IMO-06 Paraben Device Seizure 2.1 Build 3079.29886

Case Summary: CFT-IMO-06 Perform a physical acquisition and review reports for recoverable deleted data.

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-43 If the cellular forensic tool supports a physical acquisition of address book entries present on the target device then the tool shall report recoverable deleted data or address book data remnants in a human-readable format.
A.IMO-44 If the cellular forensic tool supports a physical acquisition of calendar, tasks, or notes present on the target device then the tool shall report recoverable deleted calendar, tasks, or note data remnants in a human-readable format.
A.IMO-45 If the cellular forensic tool supports a physical acquisition of call logs present on the target device then the tool shall report recoverable deleted call or call log data remnants in a human-readable format.
A.IMO-46 If the cellular forensic tool supports a physical acquisition of SMS messages present on the target device then the tool shall report recoverable deleted SMS messages or SMS message data remnants in a human-readable format.
A.IMO-47 If the cellular forensic tool supports a physical acquisition of EMS messages present on the target device then the tool shall report recoverable deleted EMS messages or EMS message data remnants in a human-readable format.
A.IMO-48 If the cellular forensic tool supports a physical acquisition of audio files present on the target device then the tool shall report recoverable deleted audio data or audio file data remnants in a human-readable format.
A.IMO-49 If the cellular forensic tool supports a physical acquisition of graphic files present on the target device then the tool shall report recoverable deleted graphic file data or graphic file data remnants in a human-readable format.
A.IMO-50 If the cellular forensic tool supports a physical acquisition of video files present on the target device then the tool shall report recoverable deleted video file data or video file data remnants in a human-readable format.

Tester
Name: rpa
Test Host: Morrisy
Test Date: Wed Jul 2 14:23:37 EDT 2008
Device: Nokia 6101
Source Setup: OS: WIN XP Interface: cable

<table>
<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>
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<td>Regular Length</td>
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<td>Deleted Entry</td>
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<td></td>
<td>Special Character</td>
</tr>
<tr>
<td>Call Logs</td>
<td>Missed</td>
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<tr>
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<td>Missed - Deleted</td>
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</table>

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<table>
<thead>
<tr>
<th>Test Case CFT-IMO-06 Paraben Device Seizure 2.1 Build 3079.29886</th>
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<tr>
<td></td>
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<td>Stand-alone data files</td>
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<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Log Highlights:
- Created By Device Seizure Version 2.1 Build 3079.29886
- Complete representation of known data via generated reports was successful
- Complete representation of known data via preview-pane was successful
- Physical Acquisition: readability and completeness was successful
- Deleted address book entries were recovered
- Deleted PIM data was recovered
- Deleted Call log data was recovered
- Deleted text message data was recovered
- NA - Deleted audio data was not recovered
- NA - Deleted graphic data was not recovered
- NA - Deleted video data was not recovered

Results:

<table>
<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-43 Physical acquisition, recovery of deleted address book entries.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IMO-44 Physical acquisition, recovery of deleted PIM data.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IMO-45 Physical acquisition, recovery of deleted call logs.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IMO-46 Physical acquisition, recovery of deleted SMS messages.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IMO-47 Physical acquisition, recovery of deleted EMS messages.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IMO-48 Physical acquisition, recovery of deleted stand-alone audio files.</td>
<td>as expected</td>
</tr>
<tr>
<td>Test Case CFT-IMO-06 Paraben Device Seizure 2.1 Build 3079.29886</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>A.IMO-49 Physical acquisition, recovery of deleted graphic files.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>A.IMO-50 Physical acquisition, recovery of deleted video files.</td>
<td>Not Applicable</td>
</tr>
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</table>

Analysis: Expected results achieved
### 5.2.17 CFT-IMO-09 (Nokia 6101)

**Test Case CFT-IMO-09 Paraben Device Seizure 2.1 Build 3079.29886**

<table>
<thead>
<tr>
<th>Case Summary</th>
<th>CFT-IMO-09 Acquire mobile device internal memory and review data containing foreign language characters.</th>
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</thead>
</table>
| 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-53 If the cellular forensic tool supports proper display of foreign language character sets then the application should present address book entries containing foreign language characters in their native format without modification.  
A.IMO-54 If the cellular forensic tool supports proper display of foreign language character sets then the application should present text messages containing foreign language characters in their native format without modification. |

<table>
<thead>
<tr>
<th>Tester Name</th>
<th>rpa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Host</td>
<td>Morrisy</td>
</tr>
<tr>
<td>Test Date</td>
<td>Wed Jul 2 14:37:03 EDT 2008</td>
</tr>
<tr>
<td>Device</td>
<td>Nokia 6101</td>
</tr>
<tr>
<td>Source OS</td>
<td>OS: WIN XP</td>
</tr>
<tr>
<td>Setup</td>
<td>Interface: cable</td>
</tr>
</tbody>
</table>

#### DATA OBJECTS

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
<th>DATA OBJECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ADDRESS BOOK ENTRIES</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></td>
<td>PIM DATA</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></td>
<td>CALL LOGS</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></td>
<td>TEXT MESSAGES</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></td>
<td>MMS MESSAGES</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>
## Test Case CFT-IMO-09 Paraben Device Seizure 2.1 Build 3079.29886

<table>
<thead>
<tr>
<th>Stand-alone data files</th>
<th>Audio</th>
<th>Audio - Deleted</th>
<th>Image</th>
<th>Image - Deleted</th>
<th>Video</th>
<th>Video - Deleted</th>
</tr>
</thead>
</table>

### Log
- **Highlights:**
  - Created By Device Seizure Version 2.1 Build 3079.29886
  - Acquisition started: Wed Jul 2 14:37:03 EDT 2008
  - 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

### Results:
<table>
<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>

### Analysis:
- Expected results achieved
## CFT-IMO-11 (Nokia 6101)

**Test Case CFT-IMO-11** Paraben Device Seizure 2.1 Build 3079.29886

<table>
<thead>
<tr>
<th>Case Summary</th>
<th>CFT-IMO-11 Acquire mobile device internal memory and review hash values for vendor supported data objects.</th>
</tr>
</thead>
</table>
| 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. |

<table>
<thead>
<tr>
<th>Tester Name</th>
<th>rpa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Host</td>
<td>Morrisy</td>
</tr>
<tr>
<td>Test Date</td>
<td>Wed Jul 2 15:06:22 EDT 2008</td>
</tr>
<tr>
<td>Device</td>
<td>Nokia 6101</td>
</tr>
</tbody>
</table>

| Source OS | WIN XP |
| Setup     | Interface: cable |

<table>
<thead>
<tr>
<th>DATA OBJECTS</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
</table>
| Address Book Entries | Maximum Length  
Regular Length, email, picture  
Special Character  
Blank Name  
Regular Length, Deleted email - deleted picture  
Deleted Entry  
Foreign Entry |
| PIM Data | Maximum Length  
Regular Length  
Deleted Entry  
Special Character |
| Call Logs | Missed  
Missed - Deleted  
Incoming  
Incoming - Deleted  
Outgoing  
Outgoing - Deleted |
| Text Messages | Incoming SMS - Read  
Incoming SMS - Unread  
Incoming SMS - Deleted  
Outgoing SMS  
Outgoing SMS - Deleted  
Incoming EMS - Read  
Incoming EMS - Unread  
Incoming Foreign EMS - Read  
Incoming EMS - Deleted  
Outgoing EMS  
Outgoing EMS - Deleted |
| MMS Messages | Incoming Audio  
Incoming Image  
Incoming Video  
Outgoing Audio  
Outgoing Image  
Outgoing Video |
| Stand-alone data files | Audio  
Audio - Deleted  
Image  
Image - Deleted  
Video |
## Test Case CFT-IMO-11 Paraben Device Seizure 2.1 Build 3079.29886

### Log

**Video - Deleted**

**Log Highlights:**

- Created By Device Seizure Version 2.1 Build 3079.29886

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

### Results:

<table>
<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>

### Analysis:

Expected results achieved
5.2.19  CFT-IMO-12 (Nokia 6101)

**Test Case CFT-IMO-12 Paraben Device Seizure 2.1 Build 3079.29886**

<table>
<thead>
<tr>
<th>Case Summary:</th>
<th>CFT-IMO-12 Acquire mobile device internal memory and review the overall case file hash.</th>
</tr>
</thead>
</table>
| **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-57 If the cellular forensic tool supports hashing the overall case file then the tool shall present the user with one hash value representing the entire case data. |

**Tester Name:** rpa  
**Test Host:** Morrisy  
**Test Date:** Wed Jul 2 15:09:32 EDT 2008  
**Device:** Nokia 6101

**Source OS:** WIN XP  
**Setup:** Interface: cable

<table>
<thead>
<tr>
<th>DATA OBJECTS</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
</table>
| 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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Results of Device Seizure V2.1 8/2008
### Test Case CFT-IMO-12 Paraben Device Seizure 2.1 Build 3079.29886

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Video - Deleted</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Log Highlights:
- Created By Device Seizure Version 2.1 Build 3079.29886
- Complete representation of known data via generated reports was successful
- Complete representation of known data via preview-pane was successful
- Device hash reporting for overall case file was successful

### Results:

<table>
<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-57 Device hash reporting for overall case file.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

### Analysis:
- Expected results achieved
Test Case CFT-SIM-01 Paraben Device Seizure 2.1 Build 3079.29886

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 Jun 26 09:28:17 EDT 2008
Device: TMOBILE_SIM

Source Setup:
OS: WIN XP
Interface: USB

DATA OBJECTS
<table>
<thead>
<tr>
<th>Abbreviated Dialing Numbers (ADN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Length</td>
</tr>
<tr>
<td>Special Character</td>
</tr>
<tr>
<td>Blank Name</td>
</tr>
<tr>
<td>Regular Length - Deleted Number</td>
</tr>
<tr>
<td>Foreign Entry</td>
</tr>
</tbody>
</table>

Call Logs
Last Numbers Dialed (LND)

Text Messages
Incoming SMS - Read
Incoming SMS - Foreign
Incoming SMS - Deleted
Incoming SMS - Unread
Incoming Foreign EMS - Read
Incoming EMS - Deleted

Log Highlights:
Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Thu Jun 26 09:28:17 EDT 2008
Acquisition finished: Thu Jun 26 09:30:27 EDT 2008
Media connectivity was established via supported interface

Results:
<table>
<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>

Analysis: Expected results achieved
## Test Case CFT-SIM-02 Paraben Device Seizure 2.1 Build 3079.29886

### 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 Jun 26 09:32:33 EDT 2008

### Device:
Unsupported SIM

### Source Setup:

<table>
<thead>
<tr>
<th>DATA OBJECTS</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Length</td>
<td>Abbreviated Dialing Numbers (ADN)</td>
</tr>
<tr>
<td>Special Character</td>
<td>Call Logs</td>
</tr>
<tr>
<td>Blank Name</td>
<td>Last Numbers Dialed (LND)</td>
</tr>
<tr>
<td>Regular Length - Deleted Number</td>
<td>Text Messages</td>
</tr>
<tr>
<td>Foreign Entry</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>

### Log Highlights:

Created By Device Seizure Version 2.1 Build 3079.29886

Acquisition started: Thu Jun 26 09:32:33 EDT 2008

Acquisition finished: Thu Jun 26 09:33:30 EDT 2008

Identification of non-supported media was successful

### Notes:

The following message was provided by Device Seizure when attempting to acquire a non-supported SIM.

Status: Failed

Action: Connecting

Result: Connection was broken

Advice: The physical connection between the device and the PC has been lost, please check cable connections.

### Results:

<table>
<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>

### Analysis:

Expected results achieved
5.2.22 CFT-SIM-03 (T-Mobile SIM)

<table>
<thead>
<tr>
<th>Test Case CFT-SIM-03 Paraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case: CFT-SIM-03 Begin SIM acquisition and interrupt connectivity by interface disengagement.</td>
</tr>
<tr>
<td>Assertions: A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader). A_SIM-25 If a cellular forensic tool encounters disengagement between the SIM reader and application then the application shall notify the user that connectivity has been disrupted.</td>
</tr>
<tr>
<td>Tester Name: rpa</td>
</tr>
<tr>
<td>Test Host: Morrisy</td>
</tr>
<tr>
<td>Test Date: Thu Jun 26 09:39:20 EDT 2008</td>
</tr>
<tr>
<td>Device: TMOBILE_SIM</td>
</tr>
<tr>
<td>Source Setup: OS: WIN XP Interface: USB</td>
</tr>
<tr>
<td>DATA OBJECTS</td>
</tr>
<tr>
<td>Abbreviated Dialing Numbers (ADN)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Call Logs</td>
</tr>
<tr>
<td>Text Messages</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Log Highlights: Created By Device Seizure Version 2.1 Build 3079.29886</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Notes: The following message was provided by Device Seizure when interrupting connectivity by interface disengagement.</td>
</tr>
<tr>
<td>Status: Failed</td>
</tr>
<tr>
<td>Action: Acquisition</td>
</tr>
<tr>
<td>Result: Connection was broken</td>
</tr>
<tr>
<td>Advice: The physical connection between the device and the PC has been lost, please check cable connections.</td>
</tr>
<tr>
<td>Results:</td>
</tr>
<tr>
<td>Assertion &amp; Expected Result</td>
</tr>
<tr>
<td>A_SIM-23 SIM connectivity via supported interfaces.</td>
</tr>
<tr>
<td>A_SIM-25 Notification of SIM acquisition disruption.</td>
</tr>
<tr>
<td>Analysis: Expected results achieved</td>
</tr>
</tbody>
</table>
**5.2.23 CFT-SIM-04 (T-Mobile SIM)**

<table>
<thead>
<tr>
<th>Test Case CFT-SIM-04 Paraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Case</strong></td>
</tr>
</tbody>
</table>
| **Summary** | A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
A_SIM-26 If the SIM is password-protected then the cellular forensic tool shall provide the examiner with the opportunity to input the PIN before acquisition. |
| **Tester Name** | rpa |
| **Test Host** | Morrisy |
| **Test Date** | Thu Jun 26 09:42:27 EDT 2008 |
| **Device** | TMOBILE_SIM |
| **Source Setup** | OS: WIN XP<br>Interface: USB |
| **DATA OBJECTS** | DATA ELEMENTS |
| Abbreviated Dialing Numbers (ADN) | Maximum Length |
| | Special Character |
| | Blank Name |
| | Regular Length – Deleted Number |
| | Foreign Entry |
| Call Logs | Last Numbers Dialed (LND) |
| Text Messages | Incoming SMS – Read |
| | Incoming SMS – Foreign |
| | Incoming SMS – Deleted |
| | Incoming SMS – Unread |
| | Incoming Foreign EMS – Read |
| | Incoming EMS – Deleted |
| **Log Highlights** | Created By Device Seizure Version 2.1 Build 3079.29886<br>Acquisition started: Thu Jun 26 09:42:27 EDT 2008<br>Acquisition finished: Thu Jun 26 09:46:01 EDT 2008 |
| **Results** | Media connectivity was established via supported interface<br>Ability to enter PIN on protected media before acquisition was successful |
| **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 |
5.2.24 CFT-SIM-05 (T-Mobile SIM)

**Case Summary:**
CFT-SIM-05 Acquire SIM internal memory and review reported data via the preview-pane or generated reports for readability.

**Assertions:**
- **A_SIM-23** If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
- **A_SIM-27** If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.

**Tester Name:** rpa

**Test Host:** Morrisy

**Test Date:** Thu Jun 26 09:47:27 EDT 2008

**Device:** TMOBILE_SIM

**Source Setup:**
- OS: WIN XP
- Interface: USB

**DATA OBJECTS**

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
<th>Abbreviated Dialing Numbers (ADN)</th>
</tr>
</thead>
<tbody>
<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></td>
<td>Call Logs</td>
</tr>
<tr>
<td></td>
<td>Last Numbers Dialed (LND)</td>
</tr>
</tbody>
</table>

**Text Messages**

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
<th>Incoming SMS - Read</th>
</tr>
</thead>
<tbody>
<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>

**Log Highlights:**
- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Thu Jun 26 09:47:27 EDT 2008
- Acquisition finished: Thu Jun 26 10:08:10 EDT 2008

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

**Results:**

<table>
<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>

**Analysis:**
Expected results achieved
### 5.2.25 CFT-SIM-06 (T-Mobile SIM)

**Test Case CFT-SIM-06 Paraben Device Seizure 2.1 Build 3079.29886**

<table>
<thead>
<tr>
<th>Case Summary:</th>
<th>Acquire SIM internal memory and review reported subscriber and equipment related information (i.e., SPN, ICCID, IMSI, MSISDN).</th>
</tr>
</thead>
</table>

**Assertions:**

- **A_SIM-23** If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
- **A_SIM-27** If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.
- **A_SIM-29** If a cellular forensic tool successfully completes acquisition of the target SIM then the ICCID shall be presented in a human-readable format without modification.
- **A_SIM-30** If a cellular forensic tool successfully completes acquisition of the target SIM then the IMSI shall be presented in a human-readable format without modification.
- **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.

**Tester Name:** rpa
**Test Host:** Morrisy
**Test Date:** Thu Jun 26 10:29:41 EDT 2008
**Device:** TMOBILE_SIM
**Source OS:** WIN XP
**Setup:** Interface: USB

<table>
<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>
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<td>Blank Name</td>
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<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>

**Log Highlights:**

- Acquisition started: Thu Jun 26 10:29:41 EDT 2008
- Acquisition finished: Thu Jun 26 10:50:03 EDT 2008
- Media connectivity was established via supported interface
- Readability and completeness of acquired data was successful
- ICCID was acquired
- IMSI was acquired
- MSISDN was acquired

**Note:** A_SIM-28 was excluded due to the SPN not being stored in 7F20:6F46.

<table>
<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-29 Acquisition of ICCID.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Test Case CFT-SIM-06 Paraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td>A SIM-30 Acquisition of IMSI.</td>
</tr>
<tr>
<td>A SIM-31 Acquisition of MSISDN.</td>
</tr>
<tr>
<td>Analysis: Expected results achieved</td>
</tr>
</tbody>
</table>
## 5.2.26 CFT-SIM-07 (T-Mobile SIM)

### Test Case CFT-SIM-07 Paraben Device Seizure 2.1 Build 3079.29886

| Case Summary: | CFT-SIM-07 Acquire SIM internal memory and review reported Abbreviated Dialing Numbers (ADN). |

### Assertions:
- **A_SIM-23** If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
- **A_SIM-27** If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.
- **A_SIM-32** If a cellular forensic tool successfully completes acquisition of the target SIM then all Abbreviated Dialing Numbers (ADN) shall be presented in a human-readable format without modification.

| Tester Name: | rpa |
| Test Host: | Morrisy |
| Test Date: | Thu Jun 26 15:20:06 EDT 2008 |
| Device: | ATT_SIM |

### Source Setup:
- **OS:** WIN XP
- **Interface:** USB

#### DATA OBJECTS DATA ELEMENTS

<table>
<thead>
<tr>
<th>Abbreviated Dialing Numbers (ADN)</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Special Character</td>
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<tr>
<td>Blank Name</td>
</tr>
<tr>
<td>Regular Length - Deleted Number</td>
</tr>
<tr>
<td>Foreign Entry</td>
</tr>
</tbody>
</table>

| Call Logs |
| Last Numbers Dialed (LND) |

| Text Messages |
| Incoming SMS - Read |
| Incoming SMS - Foreign |
| Incoming SMS - Deleted |
| Incoming SMS - Unread |
| Incoming Foreign EMS - Read |
| Incoming EMS - Deleted |

### Log Highlights:
- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Thu Jun 26 15:20:06 EDT 2008
- Acquisition finished: Thu Jun 26 15:21:20 EDT 2008

Media connectivity was established via supported interface Readability and completeness of acquired data was successful All ADNs were acquired

### Results:

<table>
<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>

### Analysis:
Expected results achieved
5.2.27  CFT-SIM-08 (T-Mobile SIM)

Test Case CFT-SIM-08 Paraben Device Seizure 2.1 Build 3079.29886

Case Summary: CFT-SIM-08 Acquire SIM internal memory and review reported Last Numbers Dialed (LND).

Assertions:
A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
A_SIM-27 If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.
A_SIM-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.

Tester Name: rpa
Test Host: Morrisy
Test Date: Thu Jun 26 12:28:30 EDT 2008
Device: TMOBILE_SIM

Source Setup:
OS: WIN XP
Interface: USB

DATA OBJECTS

DATA ELEMENTS

<table>
<thead>
<tr>
<th>Abbreviated Dialing Numbers (ADN)</th>
<th>Maximum Length</th>
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<td>Regular Length - Deleted Number</td>
<td></td>
</tr>
<tr>
<td>Foreign Entry</td>
<td></td>
</tr>
</tbody>
</table>

Call Logs

Text Messages

| Incoming SMS - Read |
| Incoming SMS - Foreign |
| Incoming SMS - Deleted |
| Incoming SMS - Unread |
| Incoming Foreign EMS - Read |
| Incoming EMS - Deleted |

Log Highlights:
Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Thu Jun 26 12:28:30 EDT 2008
Acquisition finished: Thu Jun 26 12:29:45 EDT 2008

Media connectivity was established via supported interface
Readability and completeness of acquired data was successful
LNDs were acquired

Results:

<table>
<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>

Analysis: Expected results achieved
Test Case CFT-SIM-09 Paraben Device Seizure 2.1 Build 3079.29886

Case Summary: CFT-SIM-09 Acquire SIM internal memory and review reported text messages (i.e., SMS, EMS).

Assertions:
- A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
- A_SIM-27 If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.
- A_SIM-34 If a cellular forensic tool successfully completes acquisition of the target SIM then all SMS text messages shall be presented in a human-readable format without modification.
- A_SIM-35 If a cellular forensic tool successfully completes acquisition of the target SIM then all EMS text messages shall be presented in a human-readable format without modification.

Tester Name: rpa
Test Host: Morrisy
Test Date: Thu Jun 26 12:30:14 EDT 2008
Device: TMOBILE_SIM
Source Setup:
- OS: WIN XP
- Interface: USB

DATA OBJECTS DATA ELEMENTS
Abbreviated Dialing Numbers (ADN)
- Maximum Length
- Special Character
- Blank Name
- Regular Length - Deleted Number
- Foreign Entry

Call Logs
- Last Numbers Dialed (LND)

Text Messages
- Incoming SMS - Read
- Incoming SMS - Foreign
- Incoming SMS - Deleted
- Incoming SMS - Unread
- Incoming Foreign EMS - Read
- Incoming EMS - Deleted

Log Highlights:
Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Thu Jun 26 12:30:14 EDT 2008
Acquisition finished: Thu Jun 26 12:32:09 EDT 2008
Media connectivity was established via supported interface
Readability and completeness of acquired data was successful
ALL text messages (SMS, EMS) were acquired

Results:

<table>
<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>

Analysis: Expected results achieved
## Test Case CFT-SIM-10 Paraben Device Seizure 2.1 Build 3079.29886

**Case Summary:** CFT-SIM-10 Acquire SIM internal memory and review reported location related data (i.e., LOCI, GPRSLOCI).

**Assertions:**
- **A_SIM-23** If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
- **A_SIM-27** If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.
- **A_SIM-36** If a cellular forensic tool successfully completes acquisition of the target SIM then all location related data (i.e., LOCI) shall be presented in a human-readable format without modification.
- **A_SIM-37** If a cellular forensic tool successfully completes acquisition of the target SIM then all location related data (i.e., GPRSLOCI) shall be presented in a human-readable format without modification.

**Tester Name:** rpa

**Test Host:** Morrisy

**Test Date:** Thu Jun 26 12:32:32 EDT 2008

**Device:** TMOBILE_SIM

**Source Setup:**
- **OS:** WIN XP
- **Interface:** USB

**DATA OBJECTS**

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
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</thead>
<tbody>
<tr>
<td>Abbreviated Dialing Numbers (ADN)</td>
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</tr>
<tr>
<td>Regular Length – Deleted Number</td>
</tr>
<tr>
<td>Foreign Entry</td>
</tr>
<tr>
<td>Call Logs</td>
</tr>
<tr>
<td>Last Numbers Dialed (LND)</td>
</tr>
<tr>
<td>Text Messages</td>
</tr>
<tr>
<td>Incoming SMS – Read</td>
</tr>
<tr>
<td>Incoming SMS – Foreign</td>
</tr>
<tr>
<td>Incoming SMS – Deleted</td>
</tr>
<tr>
<td>Incoming SMS – Unread</td>
</tr>
<tr>
<td>Incoming Foreign EMS – Read</td>
</tr>
<tr>
<td>Incoming EMS – Deleted</td>
</tr>
</tbody>
</table>

**Log Highlights:**
- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Thu Jun 26 12:32:32 EDT 2008
- Acquisition finished: Thu Jun 26 12:58:27 EDT 2008

Media connectivity was established via supported interface.
Readability and completeness of acquired data was successful.
LOCI data was acquired.
GPRSLOCI data was acquired.

**Results:**

<table>
<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</td>
<td>as expected</td>
</tr>
<tr>
<td>supported reports.</td>
<td></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>

**Analysis:** Expected results achieved
5.2.30 CFT-SIMO-01 (T-Mobile SIM)

Test Case CFT-SIMO-01 Paraben Device Seizure 2.1 Build 3079.29886

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: Thu Jun 26 13:09:33 EDT 2008
Device: TMOBILE_SIM

Source Setup:
- OS: WIN XP
- Interface: USB

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

Log Highlights:
Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Thu Jun 26 13:09:33 EDT 2008
Acquisition finished: Thu Jun 26 13:11:41 EDT 2008
Complete representation of known data via generated reports was successful

Results:

<table>
<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>
</tbody>
</table>

Analysis: Expected results achieved
5.2.31  **CFT-SIMO-02 (T-Mobile SIM)**

<table>
<thead>
<tr>
<th>Test Case</th>
<th>CFT-SIMO-02 Paraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case Summary:</td>
<td>CFT-SIMO-02 Acquire SIM internal memory and review acquired data via the preview-pane.</td>
</tr>
<tr>
<td>Assertions:</td>
<td>A_SIMO-59 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.</td>
</tr>
<tr>
<td>Tester Name:</td>
<td>rpa</td>
</tr>
<tr>
<td>Test Host:</td>
<td>Morrisy</td>
</tr>
<tr>
<td>Test Date:</td>
<td>Thu Jun 26 13:12:49 EDT 2008</td>
</tr>
<tr>
<td>Device:</td>
<td>TMOBILE_SIM</td>
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<tr>
<td>Source Setup:</td>
<td>OS: WIN XP</td>
</tr>
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<td>Interface: USB</td>
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<tr>
<td>DATA OBJECTS</td>
<td>DATA ELEMENTS</td>
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<td>Abbreviated Dialing Numbers (ADN)</td>
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<tr>
<td>Call Logs</td>
<td>Last Numbers Dialed (LND)</td>
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<tr>
<td>Text Messages</td>
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<td>Incoming SMS - Foreign</td>
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<td>Incoming SMS - Deleted</td>
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<td>Incoming SMS - Unread</td>
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<td>Incoming Foreign EMS - Read</td>
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<td>Incoming EMS - Deleted</td>
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</tbody>
</table>

**Log Highlights:**
- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Thu Jun 26 13:12:49 EDT 2008
- Acquisition finished: Thu Jun 26 13:15:12 EDT 2008
- Complete representation of known data via preview-pane was successful

**Results:**

<table>
<thead>
<tr>
<th>Assertion &amp; Expected Result</th>
<th>Actual Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>A_SIMO-59 Comparison of known SIM data elements via preview-pane.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

**Analysis:** Expected results achieved
5.2.32 CFT-SIMO-03 (T-Mobile SIM)

Test Case CFT-SIMO-03 Paraben Device Seizure 2.1 Build 3079.29886

Case Summary: CFT-SIMO-03 Acquire SIM internal memory and compare acquired data via the preview-pane and supported generated reports.

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.
- A_SIMO-59 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
- A_SIMO-60 If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements.

Tester Name: rpa
Test Host: Morrisy
Test Date: Thu Jun 26 13:17:11 EDT 2008
Device: TMOBILE_SIM

Source Setup:
- OS: WIN XP
- Interface: USB

DATA OBJECTS

<table>
<thead>
<tr>
<th>Abbreviated Dialing Numbers (ADN)</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
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<td>Regular Length - Deleted Number</td>
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<tr>
<td>Foreign Entry</td>
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</tbody>
</table>

Call Logs

Text Messages

<table>
<thead>
<tr>
<th>Last Numbers Dialed (LND)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incoming SMS - Read</td>
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<td>Incoming SMS - Foreign</td>
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<tr>
<td>Incoming SMS - Unread</td>
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<tr>
<td>Incoming Foreign EMS - Read</td>
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<td>Incoming EMS - Deleted</td>
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</table>

Log Highlights:
Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Thu Jun 26 13:17:11 EDT 2008
Acquisition finished: Thu Jun 26 13:19:17 EDT 2008
Complete representation of known data via generated reports was successful
Consistency between generated reports and preview-pane was successful

Results:

<table>
<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>

Analysis: Expected results achieved
## 5.2.33 CFT-SIMO-04 (T-Mobile SIM)

<table>
<thead>
<tr>
<th><strong>Test Case CFT-SIMO-04 Paraben Device Seizure 2.1 Build 3079.29886</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Case Summary:</strong> 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.</td>
</tr>
<tr>
<td><strong>Assertions:</strong> A SIMO-61 If modification is attempted to the case file or individual data elements via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.</td>
</tr>
<tr>
<td><strong>Tester Name:</strong> rpa</td>
</tr>
<tr>
<td><strong>Test Host:</strong> Morrisy</td>
</tr>
<tr>
<td><strong>Test Date:</strong> Thu Jun 26 13:20:49 EDT 2008</td>
</tr>
<tr>
<td><strong>Device:</strong> TMOBILE SIM</td>
</tr>
<tr>
<td><strong>Source Setup:</strong></td>
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<tr>
<td><strong>OS:</strong> WIN XP</td>
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<td><strong>Interface:</strong> USB</td>
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<td><strong>DATA OBJECTS</strong></td>
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</tr>
<tr>
<td><strong>Log Highlights:</strong> Created By Device Seizure Version 2.1 Build 3079.29886</td>
</tr>
<tr>
<td>Acquisition started: Thu Jun 26 13:20:49 EDT 2008</td>
</tr>
<tr>
<td>Acquisition finished: Thu Jun 26 13:41:35 EDT 2008</td>
</tr>
<tr>
<td>Notification of modified case data was successful</td>
</tr>
<tr>
<td><strong>Results:</strong></td>
</tr>
<tr>
<td><strong>Assertion &amp; Expected Result</strong></td>
</tr>
<tr>
<td>A SIMO-61 Notification of modified SIM case data.</td>
</tr>
<tr>
<td><strong>Analysis:</strong> Expected results achieved</td>
</tr>
</tbody>
</table>
Test Case CFT-SIMO-05 Paraben Device Seizure 2.1 Build 3079.29886

Case Summary:
CFT-SIMO-05 Acquire SIM internal memory and review reports for recoverable deleted data.

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.
A_SIMO-59 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
A_SIMO-62 If the cellular forensic tool successfully completes acquisition of the target SIM and recoverable deleted SMS messages exist then the tool shall present recoverable deleted data in a human-readable format without modification.
A_SIMO-63 If the cellular forensic tool successfully completes acquisition of the target SIM and recoverable deleted EMS messages exist then the tool shall present recoverable deleted data in a human-readable format without modification.

Tester Name: rpa
Test Host: Morrisy
Test Date: Thu Jun 26 13:43:34 EDT 2008
Device: TMOBILE SIM

Source Setup:
OS: WIN XP
Interface: USB

DATA OBJECTS
Abbreviated Dialing Numbers (ADN)

DATA ELEMENTS
Maximum Length
Special Character
Blank Name
Regular Length - Deleted Number
Foreign Entry

Call Logs

Text Messages
Last Numbers Dialed (LND)
Incoming SMS - Read
Incoming SMS - Foreign
Incoming SMS - Deleted
Incoming SMS - Unread
Incoming Foreign EMS - Read
Incoming EMS - Deleted

Log Highlights:
Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Thu Jun 26 13:43:34 EDT 2008
Acquisition finished: Thu Jun 26 13:46:18 EDT 2008

Complete representation of known data via generated reports was successful
Complete representation of known data via preview-pane was successful
Deleted SMS data was recovered
Deleted EMS data was recovered

Results:

<table>
<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-62 Recovery of deleted SMS messages.</td>
<td>as expected</td>
</tr>
<tr>
<td>A_SIMO-63 Recovery of deleted EMS messages.</td>
<td>as expected</td>
</tr>
</tbody>
</table>
5.2.35 CFT-SIMO-07 (T-Mobile SIM)

Test Case CFT-SIMO-07 Paraben Device Seizure 2.1 Build 3079.29886

Case Summary: CFT-SIMO-07 Acquire SIM internal memory and review data containing foreign language characters.

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.
- A_SIMO-59 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
- A_SIMO-65 If the cellular forensic tool supports proper display of foreign language character sets then the application should present abbreviated dialing numbers (ADN) containing foreign language characters in their native format without modification.
- A_SIMO-66 If the cellular forensic tool supports proper display of foreign language character sets then the application should present text messages containing foreign language characters in their native format without modification.

Tester Name: rpa
Test Host: Morrisy
Test Date: Thu Jun 26 13:53:26 EDT 2008
Device: TMOBILE SIM
Source OS: WIN XP
Setup: Interface: USB

<table>
<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></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>

Log Highlights: Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Thu Jun 26 13:53:26 EDT 2008

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

Results:

<table>
<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</td>
<td>as expected</td>
</tr>
<tr>
<td>generated reports.</td>
<td></td>
</tr>
<tr>
<td>A_SIMO-59 Comparison of known SIM data elements via</td>
<td>as expected</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Test Case CFT-SIMO-07 Faraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td>preview-pane.</td>
</tr>
<tr>
<td>A_SIMO-65 Acquisition of ADNs containing foreign language characters.</td>
</tr>
<tr>
<td>A_SIMO-66 Acquisition of text messages containing foreign language characters.</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Analysis: Expected results achieved</td>
</tr>
</tbody>
</table>
**5.2.36  CFT-SIMO-08 (T-Mobile SIM)**

<table>
<thead>
<tr>
<th>Test Case CFT-SIMO-08 Paraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Case</strong></td>
</tr>
<tr>
<td><strong>Summary:</strong></td>
</tr>
<tr>
<td><strong>Tester Name:</strong></td>
</tr>
<tr>
<td><strong>Test Host:</strong></td>
</tr>
<tr>
<td><strong>Test Date:</strong></td>
</tr>
<tr>
<td><strong>Device:</strong></td>
</tr>
<tr>
<td><strong>Source Setup:</strong></td>
</tr>
<tr>
<td><strong>Interface:</strong></td>
</tr>
</tbody>
</table>

<table>
<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>

| Log Highlights: | Created By Device Seizure Version 2.1 Build 3079.29886 |
| Acquisition started: Thu Jun 26 13:56:09 EDT 2008 |
| Acquisition finished: Thu Jun 26 13:56:35 EDT 2008 |
| Remaining number of PIN attempts properly displayed was successful |

<table>
<thead>
<tr>
<th>Results:</th>
<th><strong>Assertion &amp; Expected Result</strong></th>
<th><strong>Actual Result</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>A_SIMO-67</td>
<td>Display of remaining number of PIN attempts.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

| Analysis: | Expected results achieved |
### Test Case CFT-SIMO-09 Paraben Device Seizure 2.1 Build 3079.29886

**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:**

**Device:**
TMOBILE SIM

**Source Setup:**
OS: WIN XP
Interface: USB

**DATA OBJECTS**

<table>
<thead>
<tr>
<th>Abbreviated Dialing Numbers (ADN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Length</td>
</tr>
<tr>
<td>Special Character</td>
</tr>
<tr>
<td>Blank Name</td>
</tr>
<tr>
<td>Regular Length - Deleted Number</td>
</tr>
<tr>
<td>Foreign Entry</td>
</tr>
</tbody>
</table>

**Call Logs**

| Last Numbers Dialed (LND) |

**Text Messages**

<table>
<thead>
<tr>
<th>Incoming SMS - Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incoming SMS - Foreign</td>
</tr>
<tr>
<td>Incoming SMS - Deleted</td>
</tr>
<tr>
<td>Incoming SMS - Unread</td>
</tr>
<tr>
<td>Incoming Foreign EMS - Read</td>
</tr>
<tr>
<td>Incoming EMS - Deleted</td>
</tr>
</tbody>
</table>

**Log Highlights:**
Created By Device Seizure Version 2.1 Build 3079.29886

Acquisition started: Thu Jun 26 13:57:13 EDT 2008

Acquisition finished: Thu Jun 26 13:57:56 EDT 2008

Remaining number of PUK attempts properly displayed was successful

**Notes:**
The remaining number of PUK attempts are displayed as (10 tries left). When entering an incorrect PUK the counter is decremented properly if and only if the correct PIN code is entered also. Device Seizure was successful at unblocking the SIM by entering the correct PUK and the correct PIN.

**Results:**

<table>
<thead>
<tr>
<th>Assertion &amp; Expected Result</th>
<th>Actual Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>A_SIMO-68 Display of remaining number of PUK attempts.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

**Analysis:**
Expected results achieved
Case Summary: CFT-SIMO-10 Acquire SIM internal memory and review hash values for vendor supported data objects.

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.

A_SIMO-59 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.

A_SIMO-69 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.

Tester Name: rpa
Test Host: Morrisy
Test Date: Thu Jun 26 13:58:32 EDT 2008
Device: TMOBILE_SIM

Source Setup:
OS: WIN XP
Interface: USB

DATA OBJECTS DATA ELEMENTS

Abbreviated Dialing Numbers (ADN)
- Maximum Length
- Special Character
- Blank Name
- Regular Length - Deleted Number
- Foreign Entry

Call Logs
- Last Numbers Dialed (LND)

Text Messages
- Incoming SMS - Read
- Incoming SMS - Foreign
- Incoming SMS - Deleted
- Incoming SMS - Unread
- Incoming Foreign EMS - Read
- Incoming EMS - Deleted

Log Highlights:
Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Thu Jun 26 13:58:32 EDT 2008
Acquisition finished: Thu Jun 26 14:10:43 EDT 2008

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

Results:

<table>
<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-69 SIM hash reporting for individual acquired data objects.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

Analysis: Expected results achieved
5.2.39 CFT-SIMO-11 (T-Mobile SIM)

Test Case CFT-SIMO-11 Paraben Device Seizure 2.1 Build 3079.29886

Case Summary: CFT-SIMO-11 Acquire SIM internal memory and review the overall case file hash.

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.

A_SIMO-59 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.

A_SIMO-70 If the cellular forensic tool supports hashing for the overall case file then the tool shall present the user with one hash value representative of the entire case data.

Tester Name: rpa

Test Host: Morrisy

Test Date: Thu Jun 26 14:11:21 EDT 2008

Device: TMOBILE_SIM

Source Setup:

OS: WIN XP
Interface: USB

DATA OBJECTS

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abbreviated Dialing Numbers (ADN)</td>
</tr>
<tr>
<td>Maximum Length</td>
</tr>
<tr>
<td>Special Character</td>
</tr>
<tr>
<td>Blank Name</td>
</tr>
<tr>
<td>Regular Length - Deleted Number</td>
</tr>
<tr>
<td>Foreign Entry</td>
</tr>
</tbody>
</table>

Call Logs

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last Numbers Dialed (LND)</td>
</tr>
</tbody>
</table>

Text Messages

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incoming SMS - Read</td>
</tr>
<tr>
<td>Incoming SMS - Foreign</td>
</tr>
<tr>
<td>Incoming SMS - Deleted</td>
</tr>
<tr>
<td>Incoming SMS - Unread</td>
</tr>
<tr>
<td>Incoming Foreign EMS - Read</td>
</tr>
<tr>
<td>Incoming EMS - Deleted</td>
</tr>
</tbody>
</table>

Log Highlights:

Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Thu Jun 26 14:11:21 EDT 2008
Acquisition finished: Thu Jun 26 14:13:55 EDT 2008

Complete representation of known data via generated reports was successful
Complete representation of known data via preview-pane was successful
Device hash reporting for overall case file was successful

Results:

<table>
<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-70 SIM hash reporting for overall case file.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

Analysis: Expected results achieved
### 5.2.40 CFT-IM-01 (Motorola RAZR V3)

**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:** Mon Jun 30 13:52:27 EDT 2008

**Device:** Motorola_RAZR_V3

**Source Setup:**
- **OS:** WIN XP
- **Interface:** cable

<table>
<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>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>Stand-alone data files</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>

Log Created By Device Seizure Version 2.1 Build 3079.29886
## Highlights:
- Acquisition finished: Mon Jun 30 14:32:20 EDT 2008
- Device connectivity was established via supported interface

## Results:

<table>
<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>

## Analysis:
- Expected results achieved
## Test Case CFT-IM-02 Paraben Device Seizure 2.1 Build 3079.29886

<table>
<thead>
<tr>
<th>Case Summary:</th>
<th>CFT-IM-02 Attempt internal memory acquisition of a non-supported mobile device.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assertions:</td>
<td>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.</td>
</tr>
<tr>
<td>Tester Name:</td>
<td>rpa</td>
</tr>
<tr>
<td>Test Host:</td>
<td>Morrisy</td>
</tr>
<tr>
<td>Test Date:</td>
<td>Mon Jun 30 14:32:54 EDT 2008</td>
</tr>
<tr>
<td>Device:</td>
<td>Non-supported Device</td>
</tr>
</tbody>
</table>

### Source Setup:
- **OS:** WIN XP
- **Interface:** cable

<table>
<thead>
<tr>
<th>DATA OBJECTS</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address Book Entries</td>
<td></td>
</tr>
<tr>
<td>Maximum Length</td>
<td></td>
</tr>
<tr>
<td>Regular Length, email, picture</td>
<td></td>
</tr>
<tr>
<td>Blank Name</td>
<td></td>
</tr>
<tr>
<td>Regular Length, Deleted email - deleted picture</td>
<td></td>
</tr>
<tr>
<td>Deleted Entry</td>
<td></td>
</tr>
<tr>
<td>Foreign Entry</td>
<td></td>
</tr>
<tr>
<td>PIM Data</td>
<td></td>
</tr>
<tr>
<td>Maximum Length</td>
<td></td>
</tr>
<tr>
<td>Regular Length</td>
<td></td>
</tr>
<tr>
<td>Deleted Entry</td>
<td></td>
</tr>
<tr>
<td>Special Character</td>
<td></td>
</tr>
</tbody>
</table>

| 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 |            |
### Highlights:

- Acquisition started: Mon Jun 30 14:32:54 EDT 2008
- Acquisition finished: Mon Jun 30 14:33:48 EDT 2008
- Identification of non-supported devices was successful

### Results:

<table>
<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>

### Analysis:

Expected results achieved
5.2.42 CFT-IM-03 (Motorola RAZR V3)

Test Case CFT-IM-03 Paraben Device Seizure 2.1 Build 3079.29886

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
Test Host: Morrisy
Test Date: Mon Jun 30 14:34:13 EDT 2008
Device: Motorola RAZR V3

Source Setup:
OS: WIN XP
Interface: cable

<table>
<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>
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<td>PIM Data</td>
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<td>Deleted Entry</td>
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<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>
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<tr>
<td></td>
<td>Incoming EMS - Read</td>
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<td>Incoming EMS - Unread</td>
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<td></td>
<td>Incoming Foreign EMS - Read</td>
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<tr>
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<td>Outgoing EMS</td>
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<td>MMS Messages</td>
<td>Incoming Audio</td>
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<td>Incoming Video</td>
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<td>Outgoing Audio</td>
</tr>
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<td></td>
<td>Outgoing Image</td>
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<td></td>
<td>Outgoing Video</td>
</tr>
<tr>
<td>Stand-alone data files</td>
<td>Audio</td>
</tr>
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</tr>
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<td>Image</td>
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<td>Video</td>
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<td></td>
<td>Video - Deleted</td>
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</table>

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<table>
<thead>
<tr>
<th>Log Highlights:</th>
<th>Created By Device Seizure Version 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acquisition started: Mon Jun 30 14:34:13 EDT 2008</td>
</tr>
<tr>
<td></td>
<td>Acquisition finished: Mon Jun 30 14:35:50 EDT 2008</td>
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<tr>
<td></td>
<td>Device connectivity was established via supported interface</td>
</tr>
<tr>
<td></td>
<td>Device acquisition disruption notification was successful</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Results:</th>
<th>Assertion &amp; Expected Result</th>
<th>Actual Result</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A IM-01 Device connectivity via supported interfaces.</td>
<td>as expected</td>
</tr>
<tr>
<td></td>
<td>A IM-03 Notification of device acquisition disruption.</td>
<td>as expected</td>
</tr>
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</table>

Analysis: Expected results achieved
## 5.2.43 CFT-IM-04 (Motorola RAZR V3)

### Test Case CFT-IM-04 Paraben Device Seizure 2.1 Build 3079.29886

| Case Summary: | CFT-IM-04 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability. |
| Assertions: | A.IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A.IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report. |

| Tester Name: | rpa |
| Test Host: | Morrisy |
| Test Date: | Mon Jun 30 14:36:51 EDT 2008 |
| Device: | Motorola RAZR V3 |
| Source Setup: | OS: WIN XP Interface: cable |

<table>
<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>
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<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>
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<td>PIM Data</td>
<td>Maximum Length</td>
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<td>Regular Length</td>
</tr>
<tr>
<td></td>
<td>Deleted Entry</td>
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<td></td>
<td>Special Character</td>
</tr>
<tr>
<td>Call Logs</td>
<td>Missed</td>
</tr>
<tr>
<td></td>
<td>Missed - Deleted</td>
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<td>Incoming</td>
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<td>Incoming - Deleted</td>
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<tr>
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<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>
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<tr>
<td></td>
<td>Incoming SMS - Deleted</td>
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<tr>
<td></td>
<td>Outgoing SMS</td>
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<td>Outgoing SMS - Deleted</td>
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<td></td>
<td>Incoming EMS - Read</td>
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<tr>
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<td>Incoming EMS - Unread</td>
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<td></td>
<td>Incoming Foreign EMS - Read</td>
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<td>Outgoing Video</td>
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<table>
<thead>
<tr>
<th>Test Case CFT-IM-04 Paraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Highlights:</td>
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</tr>
<tr>
<td>Acquisition started: Mon Jun 30 14:36:51 EDT 2008</td>
</tr>
<tr>
<td>Acquisition finished: Mon Jun 30 14:42:20 EDT 2008</td>
</tr>
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</tr>
<tr>
<td>Readability and completeness of acquired data was successful</td>
</tr>
<tr>
<td>Results:</td>
</tr>
<tr>
<td><strong>Assertion &amp; Expected Result</strong></td>
</tr>
<tr>
<td><strong>Actual Result</strong></td>
</tr>
<tr>
<td>A.IM-01 Device connectivity via supported interfaces.</td>
</tr>
<tr>
<td>A.IM-04 Readability and completeness of acquired data via</td>
</tr>
<tr>
<td>supported reports.</td>
</tr>
<tr>
<td>Analysis:</td>
</tr>
<tr>
<td>Expected results achieved</td>
</tr>
</tbody>
</table>
5.2.44 CFT-IM-05 (Motorola RAZR V3)

| Case Summary: | CFT-IM-05 Acquire mobile device internal memory and review reported subscriber and equipment related information (i.e., IMEI, MSISDN). |
| Assertions: | A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report. A_IM-05 If a cellular forensic tool successfully completes acquisition of the target device then subscriber related information shall be presented in a human-readable format without modification. A_IM-06 If a cellular forensic tool successfully completes acquisition of the target device then equipment related information shall be presented in a human-readable format without modification. |

Tester Name: rpa
Test Host: Morrisy
Test Date: Mon Jun 30 14:42:54 EDT 2008
Device: Motorola RAZR V3
Source OS: WIN XP
Interface: cable

<table>
<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>
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<td>Special Character</td>
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<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>
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<tr>
<td>PIM Data</td>
<td>Maximum Length</td>
</tr>
<tr>
<td></td>
<td>Regular Length</td>
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<tr>
<td></td>
<td>Deleted Entry</td>
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<td></td>
<td>Special Character</td>
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<tr>
<td>Call Logs</td>
<td>Missed</td>
</tr>
<tr>
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<td>Missed - Deleted</td>
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<td>Incoming</td>
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<td>Incoming - Deleted</td>
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<td></td>
<td>Outgoing</td>
</tr>
<tr>
<td></td>
<td>Outgoing - Deleted</td>
</tr>
<tr>
<td>Text Messages</td>
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<td></td>
<td>Incoming SMS - Unread</td>
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<tr>
<td></td>
<td>Incoming SMS - Deleted</td>
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<td>Outgoing SMS</td>
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<tr>
<td></td>
<td>Incoming EMS - Read</td>
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<td>Incoming EMS - Unread</td>
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<td>Incoming Foreign EMS - Read</td>
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<td>Outgoing EMS</td>
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<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>
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<tr>
<td></td>
<td>Outgoing Video</td>
</tr>
<tr>
<td>Stand-alone data files</td>
<td></td>
</tr>
</tbody>
</table>

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## Log Highlights:

- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Mon Jun 30 14:42:54 EDT 2008
- Acquisition finished: Mon Jun 30 14:48:09 EDT 2008

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

## Results:

<table>
<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>as expected</td>
</tr>
<tr>
<td>A IM-06 Acquisition of IMEI.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

## Analysis:

Expected results achieved
5.2.45 CFT-IM-06 (Motorola RAZR V3)

Test Case CFT-IM-06 Paraben Device Seizure 2.1 Build 3079.29886

Case Summary: CFT-IM-06 Acquire mobile device internal memory and review reported PIM related data.

Assertions:

A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).

A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.

A_IM-07 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries shall be presented in a human-readable format without modification.

A_IM-08 If a cellular forensic tool successfully completes acquisition of the target device then all known maximum length address book entries shall be presented in a human-readable format without modification.

A_IM-09 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing special characters shall be presented in a human-readable format without modification.

A_IM-10 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing blank names shall be presented in a human-readable format without modification.

A_IM-11 If a cellular forensic tool successfully completes acquisition of the target device then all known email addresses associated with address book entries shall be presented in a human-readable format without modification.

A_IM-12 If a cellular forensic tool successfully completes acquisition of the target device then all known graphics associated with address book entries shall be presented in a human-readable format without modification.

A_IM-13 If a cellular forensic tool successfully completes acquisition of the target device then all known datebook, calendar, note entries shall be presented in a human-readable format without modification.

A_IM-14 If a cellular forensic tool successfully completes acquisition of the target device then all maximum length datebook, calendar, note entries shall be presented in a human-readable format without modification.

Tester Name: rpa

Test Host: Morrisy

Test Date: Mon Jun 30 14:53:32 EDT 2008

Device: Motorola RAZR V3

Source OS: WIN XP

Setup: Interface: cable

<table>
<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>
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</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>
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<tr>
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<td>Outgoing</td>
</tr>
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<td></td>
<td>Outgoing - Deleted</td>
</tr>
</tbody>
</table>

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### Log Highlights:

- **Creation**:
  - Device Seizure Version 2.1 Build 3079.29886
  - Acquisition started: Mon Jun 30 14:53:32 EDT 2008
  - Acquisition finished: Mon Jun 30 14:56:51 EDT 2008

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

### Results:

<table>
<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-07 Acquisition of address book entries.</td>
<td>as expected</td>
</tr>
<tr>
<td>A_IM-08 Acquisition of maximum length address book entries.</td>
<td>as expected</td>
</tr>
<tr>
<td>A_IM-09 Acquisition of address book entries containing special characters.</td>
<td>as expected</td>
</tr>
<tr>
<td>A_IM-10 Acquisition of address book entries containing a blank name entry.</td>
<td>as expected</td>
</tr>
<tr>
<td>A_IM-11 Acquisition of embedded email addresses within address book entries.</td>
<td>as expected</td>
</tr>
<tr>
<td>A_IM-12 Acquisition of embedded graphics within address book entries.</td>
<td>as expected</td>
</tr>
<tr>
<td>A_IM-13 Acquisition of PIM data (i.e., datebook/calendar, notes).</td>
<td>as expected</td>
</tr>
<tr>
<td>A_IM-14 Acquisition of maximum length PIM data.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

### Analysis:

- Expected results achieved
# 5.2.46 CFT-IM-07 (Motorola RAZR V3)

**Test Case CFT-IM-07 Paraben Device Seizure 2.1 Build 3079.29886**

<table>
<thead>
<tr>
<th>Case Summary:</th>
<th>CFT-IM-07 Acquire mobile device internal memory and review reported call logs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assertions:</td>
<td>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report. A_IM-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.</td>
</tr>
</tbody>
</table>

**Tester**
- Name: rpa
- Test Host: Morrisy
- Test Date: Mon Jun 30 14:58:40 EDT 2008
- Device: Motorola RAZR V3

**Source OS**: WIN XP
- Interface: cable

## DATA OBJECTS

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<tr>
<th>DATA ELEMENTS</th>
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</thead>
<tbody>
<tr>
<td>Address Book Entries</td>
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<td>Regular Length, email, picture</td>
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<td>Foreign Entry</td>
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</tbody>
</table>

## PIM Data

<table>
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</tr>
</thead>
<tbody>
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</tr>
<tr>
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<tr>
<td>Special Character</td>
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</table>

## Call Logs

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<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>
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</tbody>
</table>

## Text Messages

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incoming SMS - Read</td>
</tr>
<tr>
<td>Incoming SMS - Unread</td>
</tr>
<tr>
<td>Incoming SMS - Deleted</td>
</tr>
<tr>
<td>Outgoing SMS</td>
</tr>
<tr>
<td>Outgoing SMS - Deleted</td>
</tr>
<tr>
<td>Incoming EMS - Read</td>
</tr>
<tr>
<td>Incoming EMS - Unread</td>
</tr>
<tr>
<td>Incoming Foreign EMS - Read</td>
</tr>
<tr>
<td>Incoming EMS - Deleted</td>
</tr>
<tr>
<td>Outgoing EMS</td>
</tr>
<tr>
<td>Outgoing EMS - Deleted</td>
</tr>
</tbody>
</table>

## MMS Messages

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incoming Audio</td>
</tr>
<tr>
<td>Incoming Image</td>
</tr>
<tr>
<td>Incoming Video</td>
</tr>
<tr>
<td>Outgoing Audio</td>
</tr>
<tr>
<td>Outgoing Image</td>
</tr>
<tr>
<td>Outgoing Video</td>
</tr>
</tbody>
</table>

## Stand-alone data files

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio</td>
</tr>
<tr>
<td>Audio - Deleted</td>
</tr>
<tr>
<td>Image</td>
</tr>
</tbody>
</table>
Log
Highlights:

Created By Device Seizure Version 2.1 Build 3079.29886

Acquisition started: Mon Jun 30 14:58:40 EDT 2008
Acquisition finished: Mon Jun 30 14:59:23 EDT 2008

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

Results:

<table>
<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>

Analysis: Expected results achieved
5.2.47 CFT-IM-08 (Motorola RAZR V3)

**Case Summary:**
CFT-IM-08 Acquire mobile device internal memory and review reported text messages.

**Assertions:**
- **A_IM-01** If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
- **A_IM-04** If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.
- **A_IM-16** If a cellular forensic tool successfully completes acquisition of the target device then all text messages (i.e., SMS, EMS) messages shall be presented in a human-readable format without modification.

**Tester Name:** rpa

**Test Host:** Morrisy

**Test Date:** Mon Jun 30 14:59:56 EDT 2008

**Device:** Motorola RAZR V3

**Source OS:** WIN XP

**Interface:** cable

<table>
<thead>
<tr>
<th>DATA OBJECTS</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address Book Entries</td>
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</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>
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<td></td>
<td>Regular Length</td>
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<tr>
<td></td>
<td>Deleted Entry</td>
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<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>
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<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>
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<tr>
<td></td>
<td>Outgoing SMS</td>
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<tr>
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<td>Outgoing SMS - Deleted</td>
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<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>
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<tr>
<td></td>
<td>Incoming EMS - Deleted</td>
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<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>
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<td>Outgoing Audio</td>
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<td>Outgoing Image</td>
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<tr>
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<td>Outgoing Video</td>
</tr>
<tr>
<td>Stand-alone data files</td>
<td>Audio</td>
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<td>Audio - Deleted</td>
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<tr>
<td></td>
<td>Image</td>
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</table>

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Test Case CFT-IM-08 Paraben Device Seizure 2.1 Build 3079.29886

<table>
<thead>
<tr>
<th>Image</th>
<th>Video</th>
<th>Video - Deleted</th>
</tr>
</thead>
</table>

Log Highlights:
Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Mon Jun 30 14:59:56 EDT 2008
Acquisition finished: Mon Jun 30 15:01:12 EDT 2008
Device connectivity was established via supported interface
Readability and completeness of acquired data was successful
ALL text messages (SMS, EMS) were acquired

Results:

<table>
<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-16 Acquisition of text messages.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

Analysis: Expected results achieved
### Test Case CFT-IM-09 Paraben Device Seizure 2.1 Build 3079.29886

**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:**
- A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
- A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.
- A_IM-17 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated audio shall be presented properly without modification.
- A_IM-18 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated images shall be presented properly without modification.
- A_IM-19 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated video shall be presented properly without modification.

<table>
<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>
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<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>
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<tr>
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</tr>
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<td></td>
<td>Regular Length</td>
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<td>Deleted Entry</td>
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<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>
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<tr>
<td></td>
<td>Outgoing SMS</td>
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</tr>
<tr>
<td></td>
<td>Incoming EMS - Read</td>
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<tr>
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<td>Incoming EMS - Unread</td>
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<tr>
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<td>Incoming Foreign EMS - Read</td>
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<tr>
<td></td>
<td>Incoming EMS - Deleted</td>
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<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>
</tbody>
</table>

**Tester:** rpa  
**Test Host:** Morrisy  
**Test Date:** Mon Jun 30 15:01:39 EDT 2008  
**Device:** Motorola_RAZR_V3  
**Source OS:** WIN XP  
**Setup:** Interface: cable
**Test Case CFT-IM-09 Paraben Device Seizure 2.1 Build 3079.29886**

<table>
<thead>
<tr>
<th>Stand-alone data files</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Outgoing Image</td>
<td></td>
</tr>
<tr>
<td>Outgoing Video</td>
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</tr>
<tr>
<td>Audio</td>
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</tr>
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<td>Audio - Deleted</td>
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</tr>
<tr>
<td>Image</td>
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<td>Image - Deleted</td>
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</tr>
<tr>
<td>Video</td>
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</table>

**Log Highlights:**
- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Mon Jun 30 15:01:39 EDT 2008
- Acquisition finished: Mon Jun 30 15:36:59 EDT 2008

Device connectivity was established via supported interface
Readability and completeness of acquired data was successful
ALL MMS messages (Audio, Image, Video) were acquired

**Results:**

<table>
<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>

**Analysis:** Expected results achieved
Test Case CFT-IM-10 Paraben Device Seizure 2.1 Build 3079.29886

<table>
<thead>
<tr>
<th>Case Summary:</th>
<th>CFT-IM-10 Acquire mobile device internal memory and review reported stand-alone multi-media data (i.e., audio, graphics, video).</th>
</tr>
</thead>
</table>
| Assertions:   | A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.
A_IM-20 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone audio files shall be playable via either an internal application or suggested third-party application without modification.
A_IM-21 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone image files shall be viewable via either an internal application or suggested third-party application without modification.
A_IM-22 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone video files shall be viewable via either an internal application or suggested third-party application without modification. |

Tester: rpa
Name: Morrisy
Test Host: Motorola RAZR V3
Test Date: Mon Jun 30 15:38:38 EDT 2008
Device: Source OS: WIN XP Interface: cable

<table>
<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>
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</tr>
<tr>
<td></td>
<td>Regular Length, Deleted email - deleted picture</td>
</tr>
<tr>
<td></td>
<td>Deleted Entry</td>
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<td>Foreign Entry</td>
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<td>PIM Data</td>
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<td></td>
<td>Regular Length</td>
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<tr>
<td></td>
<td>Deleted Entry</td>
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<tr>
<td></td>
<td>Special Character</td>
</tr>
<tr>
<td>Call Logs</td>
<td>Missed</td>
</tr>
<tr>
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<td>Missed - Deleted</td>
</tr>
<tr>
<td></td>
<td>Incoming</td>
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<tr>
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<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>
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<td>Outgoing SMS</td>
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<td>Outgoing SMS - Deleted</td>
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<tr>
<td></td>
<td>Incoming EMS - Read</td>
</tr>
<tr>
<td></td>
<td>Incoming EMS - Unread</td>
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<td>Incoming Foreign EMS - Read</td>
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<td>Outgoing EMS</td>
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</tr>
<tr>
<td>MMS Messages</td>
<td>Incoming Audio</td>
</tr>
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<td>Test Case CFT-IM-10 Paraben Device Seizure 2.1 Build 3079.29886</td>
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<tr>
<td>---------------------------------------------------------------</td>
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</tr>
<tr>
<td></td>
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<td>Incoming Video</td>
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<tr>
<td></td>
<td>Outgoing Audio</td>
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<tr>
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<td>Outgoing Image</td>
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<tr>
<td></td>
<td>Outgoing Video</td>
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<tr>
<td>Stand-alone data files</td>
<td>Audio</td>
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<td></td>
<td>Audio - Deleted</td>
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<td>Image</td>
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<td>Video</td>
</tr>
<tr>
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</table>

Log Highlights:
Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Mon Jun 30 15:38:38 EDT 2008
Acquisition finished: Mon Jun 30 15:56:09 EDT 2008
Device connectivity was established via supported interface
Readability and completeness of acquired data was successful
ALL stand-alone data files (Audio, Image, Video) were acquired

Results:

<table>
<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-20 Acquisition of stand-alone audio files.</td>
<td>as expected</td>
</tr>
<tr>
<td>A_IM-21 Acquisition of stand-alone graphic files.</td>
<td>as expected</td>
</tr>
<tr>
<td>A_IM-22 Acquisition of stand-alone video files.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

Analysis: Expected results achieved
## Test Case CFT-IMO-01 (Motorola RAZR V3)

**Case Summary:** CFT-IMO-01 Acquire mobile device internal memory and review reported data via supported generated report formats.

**Assertions:** AIMO-38 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.

**Tester Name:** rpa

**Test Host:** Morrisy

**Test Date:** Tue Jul 1 07:45:52 EDT 2008

**Device:** Motorola_RAZR_V3

**Source Setup:**
- OS: WIN XP
- Interface: cable

### DATA OBJECTS

<table>
<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>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>
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<td>Foreign Entry</td>
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<td>PIM Data</td>
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<td>Deleted Entry</td>
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<tr>
<td></td>
<td>Special Character</td>
</tr>
<tr>
<td>Call Logs</td>
<td>Missed</td>
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<tr>
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<td>Missed - Deleted</td>
</tr>
<tr>
<td></td>
<td>Incoming</td>
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<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>
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<td></td>
<td>Incoming SMS - Deleted</td>
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<tr>
<td></td>
<td>Outgoing SMS</td>
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<td>Outgoing SMS - Deleted</td>
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<tr>
<td></td>
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<tr>
<td></td>
<td>Incoming Foreign EMS - Read</td>
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<td>Incoming EMS - Deleted</td>
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<td>Outgoing EMS</td>
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<td>MMS Messages</td>
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<td>Incoming Image</td>
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</tr>
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<td></td>
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<tr>
<td>Stand-alone data files</td>
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Log Created By Device Seizure Version 2.1 Build 3079.29886
## Test Case CFT-IMO-01 Paraben Device Seizure 2.1 Build 3079.29886

### Highlights:
- Acquisition started: Tue Jul 1 07:45:52 EDT 2008
- Acquisition finished: Tue Jul 1 07:51:14 EDT 2008
- Complete representation of known data via generated reports was successful

### Results:

<table>
<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>

### Analysis:
Expected results achieved
### Test Case CFT-IMO-02

**Paraben Device Seizure 2.1 Build 3079.29886**

**Case Summary:**
CFT-IMO-02 Acquire mobile device internal memory and review reported data via the preview-pane.

**Assertions:**
A.IMO-39 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.

**Tester Name:** rpa
**Test Host:** Morrisy
**Test Date:** Tue Jul 1 07:51:43 EDT 2008
**Device:** Motorola_RAZR_V3

**Source Setup:**
OS: WIN XP
Interface: cable

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<tr>
<th>DATA OBJECTS</th>
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<tbody>
<tr>
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<tr>
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<td>Outgoing Video</td>
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<tr>
<td>Stand-alone data files</td>
<td>Audio</td>
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Log Created By Device Seizure Version 2.1 Build 3079.29886
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<tr>
<th>Test Case CFT-IMO-02 Paraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
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<tbody>
<tr>
<td><strong>Highlights:</strong></td>
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<tr>
<td>Acquisition started: Tue Jul 1 07:51:43 EDT 2008</td>
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<tr>
<td>Acquisition finished: Tue Jul 1 07:54:12 EDT 2008</td>
</tr>
<tr>
<td>Complete representation of known data via preview-pane was successful</td>
</tr>
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<td><strong>Results:</strong></td>
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</tr>
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<tr>
<td><strong>Analysis:</strong></td>
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<tr>
<td>Expected results achieved</td>
</tr>
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</table>
5.2.52 CFT-IMO-03 (Motorola RAZR V3)

### Test Case CFT-IMO-03 Paraben Device Seizure 2.1 Build 3079.29886

<table>
<thead>
<tr>
<th>Case Summary:</th>
<th>CFT-IMO-03 Acquire mobile device internal memory and compare reported data via the preview-pane and supported generated reports.</th>
</tr>
</thead>
</table>
| Assertions:   | A.IMO-38 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.  
A.IMO-39 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.  
A.IMO-40 If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements. |
| Tester Name:  | rpa                                                               |
| Test Host:    | Morrisy                                                           |
| Test Date:    | Tue Jul 1 07:54:32 EDT 2008                                       |
| Device:       | Motorola_RAZR_V3                                                 |
| Source OS:    | WIN XP                                                            |
| Setup:        | Interface: cable                                                  |

#### DATA OBJECTS

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<thead>
<tr>
<th>DATA ELEMENTS</th>
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</thead>
<tbody>
<tr>
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<td>Call Logs</td>
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#### Stand-alone data files

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<tr>
<td>Video</td>
<td></td>
</tr>
<tr>
<td>Assertion &amp; Expected Result</td>
<td>Actual Result</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>A.IMO-38 Comparison of known device data elements via generated reports.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IMO-39 Comparison of known device data elements via preview-pane.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IMO-40 Compare generated reports and preview-pane views for device acquisition.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

Analysis: Expected results achieved
5.2.53 CFT-IMO-04 (Motorola RAZR V3)

**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:** Tue Jul 1 07:57:10 EDT 2008
**Device:** Motorola RAZR V3

**Source Setup:**
- **OS:** WIN XP
- **Interface:** cable

<table>
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<tr>
<th><strong>DATA OBJECTS</strong></th>
<th><strong>DATA ELEMENTS</strong></th>
</tr>
</thead>
<tbody>
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Log Created By Device Seizure Version 2.1 Build 3079.29886

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Test Case CFT-IMO-04 Paraben Device Seizure 2.1 Build 3079.29886

Highlights:
- Acquisition started: Tue Jul 1 07:57:10 EDT 2008
- Acquisition finished: Tue Jul 1 08:00:17 EDT 2008
- Notification of modified case data was successful

Results:

<table>
<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>
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</table>

Analysis: Expected results achieved
## 5.2.54 CFT-IMO-05 (Motorola RAZR V3)

### Test Case CFT-IMO-05 Paraben Device Seizure 2.1 Build 3079.29886

**Case Summary:**
CFT-IMO-05 Perform a physical acquisition and review data output for readability.

**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-42 If the cellular forensic tool supports a physical acquisition of the target device then the tool shall successfully complete the acquisition and present the data in a human-readable format.

**Tester Name:** rpa  
**Test Host:** Morrisy  
**Test Date:** Tue Jul 1 08:00:57 EDT 2008  
**Device:** Motorola_RAZR_V3  
**Source OS:** WIN XP  
**Interface:** cable

<table>
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<tr>
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<th>DATA ELEMENTS</th>
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</thead>
<tbody>
<tr>
<td>Address Book Entries</td>
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Test Case CFT-IMO-05 Paraben Device Seizure 2.1 Build 3079.29886

<table>
<thead>
<tr>
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Log Highlights:
Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Tue Jul 1 08:00:57 EDT 2008
Acquisition finished: Tue Jul 1 08:08:48 EDT 2008
Complete representation of known data via generated reports was successful
Complete representation of known data via preview-pane was successful
Physical Acquisition: readability and completeness was successful

Results:

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<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-42 Readability and completeness of data acquired via a physical acquisition.</td>
<td>as expected</td>
</tr>
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</table>

Analysis: Expected results achieved
5.2.55 CFT-IMO-06 (Motorola RAZR V3)  

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<th>Paraben Device Seizure 2.1 Build 3079.29886</th>
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</thead>
<tbody>
<tr>
<td><strong>Case Summary:</strong></td>
<td>CFT-IMO-06 Perform a physical acquisition and review reports for recoverable deleted data.</td>
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</tbody>
</table>
| **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-43 If the cellular forensic tool supports a physical acquisition of address book entries present on the target device then the tool shall report recoverable deleted data or address book data remnants in a human-readable format.  
A_IMO-44 If the cellular forensic tool supports a physical acquisition of calendar, tasks, or notes present on the target device then the tool shall report recoverable deleted calendar, tasks, or note data remnants in a human-readable format.  
A_IMO-45 If the cellular forensic tool supports a physical acquisition of call logs present on the target device then the tool shall report recoverable deleted call or call log data remnants in a human-readable format.  
A_IMO-46 If the cellular forensic tool supports a physical acquisition of SMS messages present on the target device then the tool shall report recoverable deleted SMS messages or SMS message data remnants in a human-readable format.  
A_IMO-47 If the cellular forensic tool supports a physical acquisition of EMS messages present on the target device then the tool shall report recoverable deleted EMS messages or EMS message data remnants in a human-readable format.  
A_IMO-48 If the cellular forensic tool supports a physical acquisition of audio files present on the target device then the tool shall report recoverable deleted audio data or audio file data remnants in a human-readable format.  
A_IMO-49 If the cellular forensic tool supports a physical acquisition of graphic files present on the target device then the tool shall report recoverable deleted graphic file data or graphic file data remnants in a human-readable format.  
A_IMO-50 If the cellular forensic tool supports a physical acquisition of video files present on the target device then the tool shall report recoverable deleted video file data or video file data remnants in a human-readable format. |
| **Tester Name:**     | rpa |
| **Test Host:**       | Morrisy |
| **Test Date:**       | Tue Jul 1 08:09:42 EDT 2008 |
| **Device:**          | Motorola RAZR V3 |
| **Source Setup:**    | OS: WIN XP Interface: cable |

**DATA OBJECTS**

<table>
<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>
</tbody>
</table>
## Test Case CFT-IMO-06 Paraben Device Seizure 2.1 Build 3079.29886

<table>
<thead>
<tr>
<th>Text Messages</th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Incoming</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Incoming - Deleted</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outgoing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outgoing - Deleted</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MMS Messages</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Incoming Audio</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Incoming Image</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Incoming Video</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outgoing Audio</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outgoing Image</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outgoing Video</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stand-alone data files</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio - Deleted</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Image</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Image - Deleted</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Video</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Video - Deleted</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Log Highlights:
- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Tue Jul 1 08:09:42 EDT 2008
- Acquisition finished: Tue Jul 1 08:13:45 EDT 2008

Complete representation of known data via generated reports was successful
Complete representation of known data via preview-pane was successful
Physical Acquisition: readability and completeness was successful
NA - Deleted address book entries were not recovered
Deleted PIM data was recovered
Deleted Call log data was recovered
Deleted text message data was recovered
NA - Deleted audio data was not recovered
NA - Deleted graphic data was not recovered
NA - Deleted video data was not recovered

### Results:

<table>
<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-43 Physical acquisition, recovery of deleted address book entries.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IMO-44 Physical acquisition, recovery of deleted PIM data.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IMO-45 Physical acquisition, recovery of deleted call logs.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IMO-46 Physical acquisition, recovery of deleted SMS messages.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IMO-47 Physical acquisition, recovery of deleted EMS messages.</td>
<td>as expected</td>
</tr>
<tr>
<td>A.IMO-48 Physical acquisition, recovery of deleted stand-alone audio files.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Test Case CFT-IMO-06 Paraben Device Seizure 2.1 Build 3079.29886</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>A.IMO-49</strong>  Physical acquisition, recovery of deleted graphic files.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>A.IMO-50</strong>  Physical acquisition, recovery of deleted video files.</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

**Analysis:** Expected results achieved
### Test Case CFT-IMO-09 (Motorola RAZR V3)

**Case Summary:**
CFT-IMO-09 Acquire mobile device internal memory and review data containing foreign language characters.

**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-53 If the cellular forensic tool supports proper display of foreign language character sets then the application should present address book entries containing foreign language characters in their native format without modification.
- A_IMO-54 If the cellular forensic tool supports proper display of foreign language character sets then the application should present text messages containing foreign language characters in their native format without modification.

<table>
<thead>
<tr>
<th>Tester Name</th>
<th>rpa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Host</td>
<td>Morrisy</td>
</tr>
<tr>
<td>Test Date</td>
<td>Tue Jul 1 08:29:52 EDT 2008</td>
</tr>
<tr>
<td>Device</td>
<td>Motorola RAZR V3</td>
</tr>
<tr>
<td>Source OS</td>
<td>WIN XP</td>
</tr>
<tr>
<td>Setup</td>
<td>Interface: cable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DATA OBJECTS</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address Book Entries</td>
<td>Maximum Length, Regular Length, email, picture, Special Character, Blank Name, Regular Length, Deleted email - deleted picture, Deleted Entry, Foreign Entry</td>
</tr>
<tr>
<td>PIM Data</td>
<td>Maximum Length, Regular Length, Deleted Entry, Special Character</td>
</tr>
<tr>
<td>Call Logs</td>
<td>Missed, Missed - Deleted, Incoming, Incoming - Deleted, Outgoing, Outgoing - Deleted</td>
</tr>
<tr>
<td>Text Messages</td>
<td>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</td>
</tr>
<tr>
<td>MMS Messages</td>
<td>Incoming Audio, Incoming Image, Incoming Video, Outgoing Audio, Outgoing Image, Outgoing Video</td>
</tr>
</tbody>
</table>

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Test Case CFT-IMO-09 Paraben Device Seizure 2.1 Build 3079.29886

<table>
<thead>
<tr>
<th>Stand-alone data files</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio</td>
</tr>
<tr>
<td>Audio - Deleted</td>
</tr>
<tr>
<td>Image</td>
</tr>
<tr>
<td>Image - Deleted</td>
</tr>
<tr>
<td>Video</td>
</tr>
<tr>
<td>Video - Deleted</td>
</tr>
</tbody>
</table>

Log Highlights:
- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Tue Jul 1 08:29:52 EDT 2008
- Acquisition finished: Tue Jul 1 08:31:57 EDT 2008
- 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

Results:

<table>
<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>

Analysis: Expected results achieved
### Test Case CFT-IMO-11 Paraben Device Seizure 2.1 Build 3079.29886

**Case Summary:**
CFT-IMO-11 Acquire mobile device internal memory and review hash values for vendor supported data objects.

**Assertions:**
- **A.IMO-38** If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.
- **A.IMO-39** If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.
- **A.IMO-56** If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.

**Tester Name:** rpa
**Test Host:** Morrisy
**Test Date:** Tue Jul 1 08:32:33 EDT 2008
**Device:** Motorola_RAZR_V3

**Source OS:** WIN XP
**Interface:** cable

<table>
<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></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>

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Test Case CFT-IMO-11 Paraben Device Seizure 2.1 Build 3079.29886

Log Highlights:
- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Tue Jul 1 08:32:33 EDT 2008
- Acquisition finished: Tue Jul 1 08:35:34 EDT 2008
- Complete representation of known data via generated reports was successful
- Complete representation of known data via preview-pane was successful
- Device hash reporting for individual acquired data elements was successful

Results:

<table>
<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>

Analysis: Expected results achieved
### Test Case CFT-IMO-12 (Motorola RAZR V3)

**Case Summary:**
CFT-IMO-12 Acquire mobile device internal memory and review the overall case file hash.

**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-57** If the cellular forensic tool supports hashing the overall case file then the tool shall present the user with one hash value representing the entire case data.

**Tester Name:** rpa
**Test Host:** Morrisy
**Test Date:** Tue Jul 1 08:36:00 EDT 2008
**Device:** Motorola RAZR V3

**Source OS:** WIN XP
**Interface:** cable

#### DATA OBJECTS DATA ELEMENTS

<table>
<thead>
<tr>
<th>Address Book Entries</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Length</td>
<td></td>
</tr>
<tr>
<td>Regular Length, email, picture</td>
<td></td>
</tr>
<tr>
<td>Special Character</td>
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</tr>
<tr>
<td>Blank Name</td>
<td></td>
</tr>
<tr>
<td>Regular Length, Deleted email - deleted picture</td>
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</tr>
<tr>
<td>Deleted Entry</td>
<td></td>
</tr>
<tr>
<td>Foreign Entry</td>
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</table>

<table>
<thead>
<tr>
<th>PIM Data</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Maximum Length</td>
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</tr>
<tr>
<td>Regular Length</td>
<td></td>
</tr>
<tr>
<td>Deleted Entry</td>
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</tr>
<tr>
<td>Special Character</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Call Logs</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Missed</td>
<td></td>
</tr>
<tr>
<td>Missed - Deleted</td>
<td></td>
</tr>
<tr>
<td>Incoming</td>
<td></td>
</tr>
<tr>
<td>Incoming - Deleted</td>
<td></td>
</tr>
<tr>
<td>Outgoing</td>
<td></td>
</tr>
<tr>
<td>Outgoing - Deleted</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Text Messages</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Incoming SMS - Read</td>
<td></td>
</tr>
<tr>
<td>Incoming SMS - Unread</td>
<td></td>
</tr>
<tr>
<td>Incoming SMS - Deleted</td>
<td></td>
</tr>
<tr>
<td>OUTgoing SMS</td>
<td></td>
</tr>
<tr>
<td>OUTgoing SMS - Deleted</td>
<td></td>
</tr>
<tr>
<td>Incoming EMS - Read</td>
<td></td>
</tr>
<tr>
<td>Incoming EMS - Unread</td>
<td></td>
</tr>
<tr>
<td>Incoming Foreign EMS - Read</td>
<td></td>
</tr>
<tr>
<td>Incoming EMS - Deleted</td>
<td></td>
</tr>
<tr>
<td>Outgoing EMS</td>
<td></td>
</tr>
<tr>
<td>Outgoing EMS - Deleted</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MMS Messages</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Incoming Audio</td>
<td></td>
</tr>
<tr>
<td>Incoming Image</td>
<td></td>
</tr>
<tr>
<td>Incoming Video</td>
<td></td>
</tr>
<tr>
<td>OUTgoing Audio</td>
<td></td>
</tr>
<tr>
<td>OUTgoing Image</td>
<td></td>
</tr>
<tr>
<td>OUTgoing Video</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stand-alone data files</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio</td>
<td></td>
</tr>
<tr>
<td>Audio - Deleted</td>
<td></td>
</tr>
<tr>
<td>Image</td>
<td></td>
</tr>
<tr>
<td>Image - Deleted</td>
<td></td>
</tr>
<tr>
<td>Video</td>
<td></td>
</tr>
</tbody>
</table>

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Test Case CFT-IMO-12 Paraben Device Seizure 2.1 Build 3079.29886

Log

Highlights:
Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Tue Jul 1 08:36:00 EDT 2008
Acquisition finished: Tue Jul 1 08:38:49 EDT 2008

Complete representation of known data via generated reports was successful
Complete representation of known data via preview-pane was successful
Device hash reporting for overall case file was successful

Results:

<table>
<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-57 Device hash reporting for overall case file.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

Analysis: Expected results achieved
5.2.59  CFT-SIM-01 (AT&T SIM)

Test Case CFT-SIM-01 Paraben Device Seizure 2.1 Build 3079.29886

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 Jun 26 14:18:51 EDT 2008
Device: ATT SIM

Source Setup:
OS: WIN XP
Interface: USB

<table>
<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>

Log Highlights:
Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Thu Jun 26 14:18:51 EDT 2008
Media connectivity was established via supported interface

Results:
<table>
<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>

Analysis: Expected results achieved
5.2.60 CFT-SIM-02 (AT&T SIM)

Test Case CFT-SIM-02 Paraben Device Seizure 2.1 Build 3079.29886

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 Jun 26 14:22:57 EDT 2008
Device: ATT SIM

Source Setup:
- OS: WIN XP
- Interface: USB

<table>
<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>
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<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>

Log Highlights:
- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition finished: Thu Jun 26 14:24:50 EDT 2008

Identification of non-supported media was successful

Notes:
The following message was provided by Device Seizure when attempting to acquire a non-supported SIM.
- Status: Failed
- Action: Connecting
- Result: Connection was broken
- Advice: The physical connection between the device and the PC has been lost, please check cable connections.

Results:

<table>
<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>

Analysis: Expected results achieved
Test Case CFT-SIM-03 Paraben Device Seizure 2.1 Build 3079.29886

Case Summary: CFT-SIM-03 Begin SIM acquisition and interrupt connectivity by interface disengagement.

Assertions:

A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).

A_SIM-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.

Tester Name: rpa
Test Host: Morrisy
Test Date: Thu Jun 26 14:27:09 EDT 2008
Device: ATT_SIM

Source Setup:
OS: WIN XP
Interface: USB

DATA OBJECTS DATA ELEMENTS

| Abbreviated Dialing Numbers (ADN) | Maximum Length |
|                                 | Special Character |
|                                 | Blank Name |
|                                 | Regular Length - Deleted Number |
|                                 | Foreign Entry |

Call Logs

Last Numbers Dialed (LND)

Text Messages

Incoming SMS - Read

Incoming SMS - Foreign

Incoming SMS - Deleted

Incoming SMS - Unread

Incoming Foreign EMS - Read

Incoming EMS - Deleted

Log Highlights:
Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Thu Jun 26 14:27:09 EDT 2008
Acquisition finished: Thu Jun 26 14:28:02 EDT 2008

Media connectivity was established via supported interface
Media acquisition disruption notification was successful

Notes:
The following message was provided by Device Seizure when interrupting connectivity by interface disengagement.
Status: Failed
Action: Acquisition
Result: Connection was broken
Advice: The physical connection between the device and the PC has been lost, please check cable connections.

Results:

<table>
<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>

Analysis: Expected results achieved
Case
CFT-SIM-04 Attempt acquisition on a password-protected SIM.

Summary:
CFT-SIM-04 Attempt acquisition on a password-protected SIM.

Assertions:
A_SIM-23 If a cellular forensic tool provides support for connectivity of
the target SIM then the tool shall successfully recognize the target SIM
via all vendor supported interfaces (e.g., PC/SC reader, proprietary
reader).
A_SIM-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.

Tester Name: rpa
Test Host: Morrisy
Test Date: Thu Jun 26 14:33:51 EDT 2008
Device: ATT_SIM
Source
Setup:
OS: WIN XP
Interface: USB

<table>
<thead>
<tr>
<th>DATA OBJECTS</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abbreviated Dialing Numbers (ADN)</td>
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<tr>
<td></td>
<td>Special Character</td>
</tr>
<tr>
<td></td>
<td>Blank Name</td>
</tr>
<tr>
<td>Call Logs</td>
<td>Regular Length - Deleted Number</td>
</tr>
<tr>
<td>Text Messages</td>
<td>Foreign Entry</td>
</tr>
<tr>
<td></td>
<td>Last Numbers Dialed (LND)</td>
</tr>
</tbody>
</table>

| Incoming SMS - Read           | Incoming SMS - Foreign        |
|                               | Incoming SMS - Deleted        |
|                               | Incoming SMS - Unread         |
|                               | Incoming Foreign EMS - Read   |
|                               | Incoming EMS - Deleted        |

Log
Highlights:
Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Thu Jun 26 14:33:51 EDT 2008
Acquisition finished: Thu Jun 26 14:34:49 EDT 2008

Media connectivity was established via supported interface
Ability to enter PIN on protected media before acquisition was successful

Results:

<table>
<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>

Analysis: Expected results achieved
**Case Summary:** CFT-SIM-05 Acquire SIM internal memory and review reported data via the preview-pane or generated reports for readability.

**Assertions:**

A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).

A_SIM-27 If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.

---

**Tester Name:** rpa  
**Test Host:** Morrisy  
**Test Date:** Thu Jun 26 14:37:31 EDT 2008  
**Device:** ATT_SIM  
**Source Setup:** OS: WIN XP  
**Interface:** USB

---

### DATA OBJECTS

<table>
<thead>
<tr>
<th>Abbreviated Dialing Numbers (ADN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Length</td>
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<td>Blank Name</td>
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<tr>
<td>Regular Length - Deleted Number</td>
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<tr>
<td>Foreign Entry</td>
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</table>

### DATA ELEMENTS

<table>
<thead>
<tr>
<th>Abbreviated Dialing Numbers (ADN)</th>
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<tr>
<td>Regular Length - Deleted Number</td>
</tr>
<tr>
<td>Foreign Entry</td>
</tr>
<tr>
<td>Last Numbers Dialed (LND)</td>
</tr>
</tbody>
</table>

---

**Highlights:**

- Created By Device Seizure Version 2.1 Build 3079.29886  
- Acquisition started: Thu Jun 26 14:37:31 EDT 2008  
- Acquisition finished: Thu Jun 26 14:58:42 EDT 2008  
- Media connectivity was established via supported interface  
- Readability and completeness of acquired data was successful

---

**Results:**

<table>
<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>

---

**Analysis:** Expected results achieved
**5.2.64 CFT-SIM-06 (AT&T SIM)**

<table>
<thead>
<tr>
<th>Test Case CFT-SIM-06 Paraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Case Summary:</strong> CFT-SIM-06 Acquire SIM internal memory and review reported subscriber and equipment related information (i.e., SPN, ICCID, IMSI, MSISDN).</td>
</tr>
<tr>
<td><strong>Assertions:</strong></td>
</tr>
<tr>
<td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).</td>
</tr>
<tr>
<td>A_SIM-27 If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>A_SIM-30 If a cellular forensic tool successfully completes acquisition of the target SIM then the IMSI shall be presented in a human-readable format without modification.</td>
</tr>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tester Name: rpa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Host: Morrisy</td>
</tr>
<tr>
<td>Test Date: Thu Jun 26 15:00:20 EDT 2008</td>
</tr>
<tr>
<td>Device: ATT_SIM</td>
</tr>
</tbody>
</table>

### Setup:

<table>
<thead>
<tr>
<th>DATA OBJECTS</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abbreviated Dialing Numbers (ADN)</td>
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<td>Regular Length - Deleted Number</td>
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<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>

### Log Highlights:

- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Thu Jun 26 15:00:20 EDT 2008
- Acquisition finished: Thu Jun 26 15:02:50 EDT 2008

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

**Note:** A_SIM-28 was excluded due to the SPN not being stored in 7F20:6F46.

### Results:

<table>
<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-29 Acquisition of ICCID.</td>
<td>as expected</td>
</tr>
<tr>
<td>A_SIM-30 Acquisition of IMSI.</td>
<td>as expected</td>
</tr>
<tr>
<td>Test Case CFT-SIM-06 Paraben Device Seizure 2.1 Build 3079.29886</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>A SIM-31 Acquisition of MSISDN.</td>
<td></td>
</tr>
<tr>
<td>as expected</td>
<td></td>
</tr>
</tbody>
</table>

Analysis: Expected results achieved
### Test Case CFT-SIM-07 Paraben Device Seizure 2.1 Build 3079.29886

<table>
<thead>
<tr>
<th>Case Summary:</th>
<th>CFT-SIM-07 Acquire SIM internal memory and review reported Abbreviated Dialing Numbers (ADN).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assertions:</td>
<td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).&lt;br&gt;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.&lt;br&gt;A_SIM-32 If a cellular forensic tool successfully completes acquisition of the target SIM then all Abbreviated Dialing Numbers (ADN) shall be presented in a human-readable format without modification.</td>
</tr>
<tr>
<td>Tester Name:</td>
<td>rpa</td>
</tr>
<tr>
<td>Test Host:</td>
<td>Morrisey</td>
</tr>
<tr>
<td>Test Date:</td>
<td>Thu Jun 26 15:20:20 EST 2008</td>
</tr>
<tr>
<td>Device:</td>
<td>SIM</td>
</tr>
<tr>
<td>Source Setup:</td>
<td>OS: WIN XP&lt;br&gt;Interface: USB</td>
</tr>
<tr>
<td>Log Highlights:</td>
<td>Created By Paraben Device Seizure 1.3&lt;br&gt;Acquisition started: Thu Jun 26 15:20:20 EDT 2008&lt;br&gt;Acquisition finished: Thu Jun 26 15:21:25 EDT 2008&lt;br&gt;Media connectivity was established via supported interface&lt;br&gt;Readability and completeness of acquired data was successful&lt;br&gt;All ADNs were acquired</td>
</tr>
<tr>
<td>Results:</td>
<td><strong>Assertion &amp; Expected Result</strong></td>
</tr>
<tr>
<td></td>
<td>A_SIM-23 SIM connectivity via supported interfaces.</td>
</tr>
<tr>
<td></td>
<td>A_SIM-27 Readability and completeness of acquired data via supported reports.</td>
</tr>
<tr>
<td></td>
<td>A_SIM-32 Acquisition of ADNs.</td>
</tr>
<tr>
<td>Analysis:</td>
<td>Expected results achieved</td>
</tr>
</tbody>
</table>
5.2.66 CFT-SIM-08 (AT&T SIM)

**Test Case CFT-SIM-08 Paraben Device Seizure 2.1 Build 3079.29886**

<table>
<thead>
<tr>
<th>Case Summary:</th>
<th>CFT-SIM-08 Acquire SIM internal memory and review reported Last Numbers Dialed (LND).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assertions:</td>
<td>A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).</td>
</tr>
<tr>
<td></td>
<td>A_SIM-27 If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.</td>
</tr>
<tr>
<td></td>
<td>A_SIM-33 If a cellular forensic tool successfully completes acquisition of the target SIM then all Last Numbers Dialed (LND) shall be presented in a human-readable format without modification.</td>
</tr>
</tbody>
</table>

| Tester Name: | rpa |
| Test Host:   | Morrisy |
| Test Date:   | Thu Jun 26 15:21:53 EDT 2008 |
| Device:      | ATT_SIM |

Source Setup:
- **OS:** WIN XP
- **Interface:** USB

<table>
<thead>
<tr>
<th>DATA OBJECTS</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abbreviated Dialing Numbers (ADN)</td>
<td>Maximum Length</td>
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<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></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>

Log Highlights:
- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Thu Jun 26 15:21:53 EDT 2008
- Acquisition finished: Thu Jun 26 15:25:13 EDT 2008

Media connectivity was established via supported interface Readability and completeness of acquired data was successful LNDs were acquired

Results:

<table>
<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>

Analysis: Expected results achieved
5.2.67  CFT-SIM-09 (AT&T SIM)

Test Case CFT-SIM-09 Paraben Device Seizure 2.1 Build 3079.29886

| Case Summary: | CFT-SIM-09 Acquire SIM internal memory and review reported text messages (i.e., SMS, EMS). |
| Assertions: | A_SIM-23 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).  
A_SIM-27 If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.  
A_SIM-34 If a cellular forensic tool successfully completes acquisition of the target SIM then all SMS text messages shall be presented in a human-readable format without modification.  
A_SIM-35 If a cellular forensic tool successfully completes acquisition of the target SIM then all EMS text messages shall be presented in a human-readable format without modification. |

| Tester Name: | rpa |
| Test Host: | Morrisy |
| Test Date: | Thu Jun 26 15:25:55 EDT 2008 |
| Device: | ATT SIM |
| Source Setup: | OS: WIN XP  
Interface: USB |

### DATA OBJECTS

| Abbreviated Dialing Numbers (ADN) | Maximum Length  
| Special Character  
| Blank Name  
| Regular Length - Deleted Number  
| Foreign Entry  

### DATA ELEMENTS

| Call Logs | Last Numbers Dialed (LND)  

### Text Messages

| Incoming SMS - Read  
| Incoming SMS - Foreign  
| Incoming SMS - Deleted  
| Incoming SMS - Unread  
| Incoming Foreign EMS - Read  
| Incoming EMS - Deleted  

| Log Highlights: | Created By Device Seizure Version 2.1 Build 3079.29886  
Acquisition started: Thu Jun 26 15:25:55 EDT 2008  
Acquisition finished: Thu Jun 26 15:27:19 EDT 2008  
Media connectivity was established via supported interface  
Readability and completeness of acquired data was successful  
ALL text messages (SMS, EMS) were acquired |

| Results: | Assertion & Expected Result | Actual Result |
| | A_SIM-23 SIM connectivity via supported interfaces. | as expected |
| | A_SIM-27 Readability and completeness of acquired data via supported reports. | as expected |
| | A_SIM-34 Acquisition of SMS messages. | as expected |
| | A_SIM-35 Acquisition of EMS messages. | as expected |

Analysis: Expected results achieved
## 5.2.68 CFT-SIM-10 (AT&T SIM)

### Test Case CFT-SIM-10 Paraben Device Seizure 2.1 Build 3079.29886

**Case Summary:**
CFT-SIM-10 Acquire SIM internal memory and review reported location related data (i.e., LOCI, GPRSLOCI).

**Assertions:**
- **A_SIM-23** If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all vendor supported interfaces (e.g., PC/SC reader, proprietary reader).
- **A_SIM-27** If a cellular forensic tool successfully completes acquisition of the target SIM then the tool shall have the ability to present acquired data in a human-readable format via either preview-pane or generated report.
- **A_SIM-36** If a cellular forensic tool successfully completes acquisition of the target SIM then all location related data (i.e., LOCI) shall be presented in a human-readable format without modification.
- **A_SIM-37** If a cellular forensic tool successfully completes acquisition of the target SIM then all location related data (i.e., GPRSLOCI) shall be presented in a human-readable format without modification.

**Tester Name:** rpa

**Test Host:** Morrisy

**Test Date:** Thu Jun 26 15:27:43 EDT 2008

**Device:** ATT SIM

**Source Setup:**
- **OS:** WIN XP
- **Interface:** USB

### DATA OBJECTS DATA ELEMENTS

<table>
<thead>
<tr>
<th>Abbreviated Dialing Numbers (ADN)</th>
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</thead>
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<td>Foreign Entry</td>
</tr>
<tr>
<td><strong>Call Logs</strong></td>
<td>Last Numbers Dialed (LND)</td>
</tr>
<tr>
<td><strong>Text Messages</strong></td>
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</tr>
<tr>
<td></td>
<td>Incoming SMS - Foreign</td>
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<tr>
<td></td>
<td>Incoming SMS - Deleted</td>
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<td></td>
<td>Incoming SMS - Unread</td>
</tr>
<tr>
<td></td>
<td>Incoming Foreign EMS - Read</td>
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<tr>
<td></td>
<td>Incoming EMS - Deleted</td>
</tr>
</tbody>
</table>

**Log Highlights:**
- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Thu Jun 26 15:27:43 EDT 2008
- Acquisition finished: Thu Jun 26 15:51:18 EDT 2008
- Media connectivity was established via supported interface
- Readability and completeness of acquired data was successful
- LOCI data was acquired
- GPRSLOCI data was acquired

**Results:**

<table>
<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>

**Analysis:** Expected results achieved
## 5.2.69 CFT-SIMO-01 (AT&T SIM)

<table>
<thead>
<tr>
<th>Test Case CFT-SIMO-01 Paraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Case Summary:</strong></td>
</tr>
<tr>
<td><strong>Assertions:</strong></td>
</tr>
<tr>
<td><strong>Tester Name:</strong></td>
</tr>
<tr>
<td><strong>Test Host:</strong></td>
</tr>
<tr>
<td><strong>Test Date:</strong></td>
</tr>
<tr>
<td><strong>Device:</strong></td>
</tr>
</tbody>
</table>
| **Source Setup:** | OS: WIN XP  
Interface: USB |
| **DATA OBJECTS** | **DATA ELEMENTS** |
| Abbreviated Dialing Numbers (ADN) | Maximum Length  
Special Character  
Blank Name  
Regular Length - Deleted Number  
Foreign Entry |
| Call Logs | Last Numbers Dialed (LND) |
| Text Messages | Incoming SMS - Read  
Incoming SMS - Foreign  
Incoming SMS - Deleted  
Incoming SMS - Unread  
Incoming Foreign EMS - Read  
Incoming EMS - Deleted |
| **Log Highlights:** | Created By Device Seizure Version 2.1 Build 3079.29886  
Acquisition started: Fri Jun 27 09:36:39 EDT 2008  
Acquisition finished: Fri Jun 27 09:39:47 EDT 2008  
Complete representation of known data via generated reports was successful |
| **Results:** | **Assertion & Expected Result**  
A_SIMO-58 Comparison of known SIM data elements via generated reports.  
**Actual Result** | as expected |
| **Analysis:** | Expected results achieved |
5.2.70  CFT-SIMO-02 (AT&T SIM)

Test Case CFT-SIMO-02 Paraben Device Seizure 2.1 Build 3079.29886

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 Jun 27 09:40:10 EDT 2008
Device: ATT_SIM

Source Setup:
- OS: WIN XP
- Interface: USB

<table>
<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>

Log Highlights:
- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Fri Jun 27 09:40:10 EDT 2008
- Complete representation of known data via preview-pane was successful

Results:

<table>
<thead>
<tr>
<th>Assertion &amp; Expected Result</th>
<th>Actual Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>A_SIMO-59 Comparison of known SIM data elements via preview-pane.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

Analysis: Expected results achieved
## 5.2.71 CFT-SIMO-03 (AT&T SIM)

**Case Summary:** CFT-SIMO-03 Acquire SIM internal memory and compare acquired data via the preview-pane and supported generated reports.

**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.
- A_SIMO-59: If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
- A_SIMO-60: If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements.

**Tester Name:** rpa

**Test Host:** Morrisy

**Test Date:** Fri Jun 27 09:44:04 EDT 2008

**Device:** ATT_SIM

### DATA OBJECTS

<table>
<thead>
<tr>
<th>DATA ELEMENTS</th>
<th>Abbreviated Dialing Numbers (ADN)</th>
<th>Maximum Length</th>
<th>Special Character</th>
<th>Blank Name</th>
<th>Regular Length - Deleted Number</th>
<th>Foreign Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Call Logs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Text Messages</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Log Highlights:

- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Fri Jun 27 09:44:04 EDT 2008
- Acquisition finished: Fri Jun 27 09:46:04 EDT 2008

**Results:**

<table>
<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>

**Analysis:** Expected results achieved
**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 Jun 27 09:46:40 EDT 2008

**Device:** ATT SIM

**Source Setup:**
- **OS:** WIN XP
- **Interface:** USB

<table>
<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>Call Logs</td>
<td>Foreign Entry</td>
</tr>
<tr>
<td>Text Messages</td>
<td>Last Numbers Dialed (LND)</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>

**Log Highlights:**
- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Fri Jun 27 09:46:40 EDT 2008
- Acquisition finished: Fri Jun 27 09:49:52 EDT 2008
- Notification of modified case data was successful

**Results:**

<table>
<thead>
<tr>
<th>Assertion &amp; Expected Result</th>
<th>Actual Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>A_SIMO-61 Notification of modified SIM case data.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

**Analysis:** Expected results achieved
### Case Summary
CFT-SIMO-05 Acquire SIM internal memory and review reports for recoverable deleted data.

### 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.
- **A_SIMO-59** If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
- **A_SIMO-62** If the cellular forensic tool successfully completes acquisition of the target SIM and recoverable deleted SMS messages exist then the tool shall present recoverable deleted data in a human-readable format without modification.
- **A_SIMO-63** If the cellular forensic tool successfully completes acquisition of the target SIM and recoverable deleted EMS messages exist then the tool shall present recoverable deleted data in a human-readable format without modification.

### Tester
- **Name:** rpa
- **Test Host:** Morrisy
- **Test Date:** Fri Jun 27 09:50:17 EDT 2008
- **Device:** ATT_SIM

### Source Setup
- OS: WIN XP
- Interface: USB

### DATA OBJECTS
<table>
<thead>
<tr>
<th>Abbreviated Dialing Numbers (ADN)</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Length</td>
<td></td>
</tr>
<tr>
<td>Special Character</td>
<td></td>
</tr>
<tr>
<td>Blank Name</td>
<td></td>
</tr>
<tr>
<td>Regular Length - Deleted Number</td>
<td></td>
</tr>
<tr>
<td>Foreign Entry</td>
<td></td>
</tr>
</tbody>
</table>

### Call Logs
| Last Numbers Dialed (LND)          |               |

### Text Messages
| Incoming SMS - Read               |               |
| Incoming SMS - Foreign            |               |
| Incoming SMS - Deleted            |               |
| Incoming SMS - Unread             |               |
| Incoming Foreign EMS - Read       |               |
| Incoming EMS - Deleted            |               |

### Log Highlights
- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Fri Jun 27 09:50:17 EDT 2008
- Acquisition finished: Fri Jun 27 09:52:17 EDT 2008

Complete representation of known data via generated reports was successful
Complete representation of known data via preview-pane was successful
Deleted SMS data was recovered
Deleted EMS data was recovered

### Results
<table>
<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-62 Recovery of deleted SMS messages.</td>
<td>as expected</td>
</tr>
<tr>
<td>A_SIMO-63 Recovery of deleted EMS messages.</td>
<td>as expected</td>
</tr>
</tbody>
</table>
## 5.2.74  CFT-SIMO-07 (AT&T SIM)

**Test Case CFT-SIMO-07 Paraben Device Seizure 2.1 Build 3079.29886**

<table>
<thead>
<tr>
<th>Case Summary:</th>
<th>CFT-SIMO-07 Acquire SIM internal memory and review data containing foreign language characters.</th>
</tr>
</thead>
</table>
| 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.  
A_SIMO-59 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.  
A_SIMO-65 If the cellular forensic tool supports proper display of foreign language character sets then the application should present abbreviated dialing numbers (ADN) containing foreign language characters in their native format without modification.  
A_SIMO-66 If the cellular forensic tool supports proper display of foreign language character sets then the application should present text messages containing foreign language characters in their native format without modification. |
| Tester Name:  | rpa                                                                                                               |
| Test Host:    | Morrisy                                                              |
| Test Date:    | Fri Jun 27 09:55:02 EDT 2008                                       |
| Device:       | ATT_SIM                                                               |
| Source OS:    | WIN XP                                                               |
| Interface:    | USB                                                                  |
| Setup:        | DATA OBJECTS            | DATA ELEMENTS            |
|               | Abbreviated Dialing Numbers (ADN) | Maximum Length          |
|               |                        | Special Character        |
|               |                        | Blank Name               |
|               |                        | Regular Length - Deleted Number |
|               |                        | Foreign Entry            |
|               | Call Logs               | Last Numbers Dialed (LND) |
|               | Text Messages            | Incoming SMS - Read      |
|               |                          | Incoming SMS - Foreign   |
|               |                          | Incoming SMS - Deleted   |
|               |                          | Incoming SMS - Unread    |
|               |                          | Incoming Foreign EMS - Read |
|               |                          | Incoming EMS - Deleted   |

**Log Highlights:**

Acquisition started: Fri Jun 27 09:55:02 EDT 2008  
Acquisition finished: Fri Jun 27 09:56:52 EDT 2008  
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

**Results:**

<table>
<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</td>
<td>as expected</td>
</tr>
</tbody>
</table>

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129 of 134 Results of Device Seizure V2.1 8/2008
<table>
<thead>
<tr>
<th>Test Case CFT-SIMO-07 Faraben Device Seizure 2.1 Build 3079.29886</th>
</tr>
</thead>
<tbody>
<tr>
<td>**A_SIMO-66 Acquisition of text messages containing foreign</td>
</tr>
<tr>
<td>language characters.</td>
</tr>
<tr>
<td><strong>Analysis:</strong></td>
</tr>
</tbody>
</table>

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

Test Case CFT-SIMO-08 Paraben Device Seizure 2.1 Build 3079.29886

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 Jun 27 09:57:22 EDT 2008
Device: ATT_SIM

Source Setup:
OS: WIN XP
Interface: USB

DATA OBJECTS
- Abbreviated Dialing Numbers (ADN)
  - Maximum Length
  - Special Character
  - Blank Name
  - Regular Length - Deleted Number
  - Foreign Entry

Call Logs
- Last Numbers Dialed (LND)

Text Messages
- Incoming SMS - Read
- Incoming SMS - Foreign
- Incoming SMS - Deleted
- Incoming SMS - Unread
- Incoming Foreign EMS - Read
- Incoming EMS - Deleted

Log Highlights:
Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Fri Jun 27 09:57:22 EDT 2008
Acquisition finished: Fri Jun 27 10:01:10 EDT 2008

Remaining number of PIN attempts properly displayed was successful

Results:

<table>
<thead>
<tr>
<th>Assertion &amp; Expected Result</th>
<th>Actual Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>A_SIMO-67 Display of remaining number of PIN attempts.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

Analysis: Expected results achieved
### Test Case CFT-SIMO-09 (AT&T SIM)

**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 Jun 27 10:02:01 EDT 2008

**Device:**
ATT SIM

**Source Setup:**
OS: WIN XP
Interface: USB

<table>
<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>

**Log Highlights:**
- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Fri Jun 27 10:02:01 EDT 2008
- Acquisition finished: Fri Jun 27 10:05:32 EDT 2008

Remaining number of PUK attempts properly displayed was successful

**Notes:**
The remaining number of PUK attempts are displayed as (10 tries left). When entering an incorrect PUK the counter is decremented properly if and only if the correct PIN code is entered also. Device Seizure was successful at unblocking the SIM by entering the correct PUK and the correct PIN.

**Results:**

<table>
<thead>
<tr>
<th>Assertion &amp; Expected Result</th>
<th>Actual Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>A_SIMO-68 Display of remaining number of PUK attempts.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

**Analysis:**
Expected results achieved
5.2.77  CFT-SIMO-10 (AT&T SIM)

Test Case CFT-SIMO-10 Paraben Device Seizure 2.1 Build 3079.29886

Case Summary: CFT-SIMO-10 Acquire SIM internal memory and review hash values for vendor supported data objects.

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.
A_SIMO-59 If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
A_SIMO-69 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.

Tester Name: rpa
Test Host: Morrisy
Test Date: Fri Jun 27 10:14:34 EDT 2008
Device: ATT SIM

Source Setup:
OS: WIN XP
Interface: USB

DATA OBJECTS
Abbreviated Dialing Numbers (ADN)
- Maximum Length
- Special Character
- Blank Name
- Regular Length - Deleted Number
- Foreign Entry

Call Logs
Last Numbers Dialed (LND)

Text Messages
Incoming SMS - Read
Incoming SMS - Foreign
Incoming SMS - Deleted
Incoming SMS - Unread
Incoming Foreign EMS - Read
Incoming EMS - Deleted

Log Highlights:
Created By Device Seizure Version 2.1 Build 3079.29886
Acquisition started: Fri Jun 27 10:14:34 EDT 2008
Acquisition finished: Fri Jun 27 10:17:29 EDT 2008
Complete representation of known data via generated reports was successful
Complete representation of known data via preview-pane was successful
Device hash reporting for individual acquired data elements was successful

Results:

<table>
<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-69 SIM hash reporting for individual acquired data objects.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

Analysis: Expected results achieved
### Test Case CFT-SIMO-11

**Paraben Device Seizure 2.1 Build 3079.29886**

**Case Summary:** CFT-SIMO-11 Acquire SIM internal memory and review the overall case file hash.

**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.
- **A_SIMO-59:** If a cellular forensic tool successfully completes acquisition of the target media (i.e., SIM) then the tool shall present the acquired data in a human-readable format without modification via supported generated report formats.
- **A_SIMO-70:** If the cellular forensic tool supports hashing for the overall case file then the tool shall present the user with one hash value representative of the entire case data.

**Tester Name:** rpa

**Test Host:** Morrisy

**Test Date:** Fri Jun 27 10:17:54 EDT 2008

**Device:** ATT_SIM

**Source Setup:** OS: WIN XP
- Interface: USB

**DATA OBJECTS**

<table>
<thead>
<tr>
<th>Abbreviated Dialing Numbers (ADN)</th>
<th>DATA ELEMENTS</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>

**Call Logs**

<table>
<thead>
<tr>
<th>Last Numbers Dialed (LND)</th>
</tr>
</thead>
</table>

**Text Messages**

<table>
<thead>
<tr>
<th>Incoming SMS - Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incoming SMS - Foreign</td>
</tr>
<tr>
<td>Incoming SMS - Deleted</td>
</tr>
<tr>
<td>Incoming SMS - Unread</td>
</tr>
<tr>
<td>Incoming Foreign EMS - Read</td>
</tr>
<tr>
<td>Incoming EMS - Deleted</td>
</tr>
</tbody>
</table>

**Log Highlights:**

- Created By Device Seizure Version 2.1 Build 3079.29886
- Acquisition started: Fri Jun 27 10:17:54 EDT 2008

Complete representation of known data via generated reports was successful
Complete representation of known data via preview-pane was successful
Device hash reporting for overall case file was successful

**Results:**

<table>
<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-70 SIM hash reporting for overall case file.</td>
<td>as expected</td>
</tr>
</tbody>
</table>

**Analysis:** Expected results achieved
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.