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REPORT

Test Results for Mobile Device Acquisition Tool:
BitPim - 1.0.6-official

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BitPim - 1.0.6-official**



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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 posted on the CFTT Web site (<http://www.cftt.nist.gov/>) are available for review and comment by the computer forensics community.

This document reports the results from testing BitPim, version 1.0.6-official, against the *Non-GSM Mobile Device and Associated Media Tool Test Assertions and Test Plan Version 1.1*, available at the CFTT Web site (www.cftt.nist.gov/mobile_devices.htm).

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

Test Results for Mobile Device Data Acquisition Tool

Tool Tested: BitPim
Version: 1.0.6-official
Run Environments: Windows XP Service Pack 2

Supplier: www.bitpim.org

Developers: Joe Pham, Stephen Wood, Sean Burke, Nathan Hjelm, and others.
Email: djpham@bitpim.org
WWW: <http://www.bitpim.org>

1 Results Summary

Except for the following test cases: CFT-IM-01 (LG vx6100), CFT-IM-08 (LG vx5400, Moto v710, SCH u740, SPH a660), the tested tool acquired all supported data objects completely and accurately from the selected test mobile devices (i.e., LG vx5400, MOTO v710, Samsung SCH u410, Samsung SCH u740, Samsung SPH a660). The exceptions are the following:

- Connectivity was not established via the supported cable interface; therefore, acquisition of device memory was not successful. Test Case: CFT-IM-01 (LG VX6100)
- Address book entries and text messages containing non-ASCII characters such as: à, é were excluded from the address book entry. Test Case: CFT-IMO-08 (LG VX5400, SCH-u740)
- Address book entries containing non-ASCII characters such as: 阿恶哈拉 were not reported. Text messages containing non-ASCII characters such as: à, é, 阿恶哈拉 were not reported. Test Case: CFT-IMO-08 (Moto v710)
- Text messages containing containing non-ASCII characters such as: à, é were excluded from text message. Test Case: CFT-IMO-08 (SPH-a660)

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. Tables (1a–1d) list the features available in BitPim and the linked test cases. Tables (2a–2d) list the features not available in BitPim. Multiple tables are necessary due to individual mobile devices providing different features. Therefore, case selection is device dependent.

Table 1a: Selected Test Cases (LG VX5400, SCH-u740)

Supported Optional Feature	Cases selected for execution
Base Cases	CFT-IM-(01-10)
Acquire mobile device internal memory and review data via supported generated report formats	CFT-IMO-01
Acquire mobile device internal memory and review reported data via the preview pane	CFT-IMO-02
Acquire mobile device internal memory and compare reported data via the preview pane and supported generated report formats	CFT-IMO-03
Perform a physical acquisition and review data output for readability	CFT-IMO-05
Acquire mobile device internal memory and review generated log files	CFT-IMO-07
Acquire mobile device internal memory and review data containing foreign language characters	CFT-IMO-08

Table 1b: Selected Test Cases (LG VX6100)

Supported Optional Feature	Cases selected for execution
Base Cases	CFT-IM-(01)

Table 1c: Selected Test Cases (Moto v710)

Supported Optional Feature	Cases selected for execution
Base Cases	CFT-IM-(01-06, 08-10)
Acquire mobile device internal memory and review data via supported generated report formats	CFT-IMO-01
Acquire mobile device internal memory and review reported data via the preview pane	CFT-IMO-02
Acquire mobile device internal memory and compare reported data via the preview pane and supported generated report formats	CFT-IMO-03
Perform a physical acquisition and review data output for readability	CFT-IMO-05

Acquire mobile device internal memory and review generated log files	CFT-IMO-07
Acquire mobile device internal memory and review data containing foreign language characters	CFT-IMO-08

Table 1d: Selected Test Cases (SPH-a660)

Supported Optional Feature	Cases selected for execution
Base Cases	CFT-IM-(01- 06, 08)
Acquire mobile device internal memory and review data via supported generated report formats	CFT-IMO-01
Acquire mobile device internal memory and review reported data via the preview pane	CFT-IMO-02
Acquire mobile device internal memory and compare reported data via the preview pane and supported generated report formats	CFT-IMO-03
Perform a physical acquisition and review data output for readability	CFT-IMO-05
Acquire mobile device internal memory and review generated log files	CFT-IMO-07
Acquire mobile device internal memory and review data containing foreign language characters	CFT-IMO-08

Table 2a: Omitted Test Cases (LG VX5400, SCH-u740)

Unsupported Optional Feature	Cases omitted (not executed)
After a successful mobile device internal memory acquisition, alter the case file via third-party means and attempt to reopen the case file	CFT-IMO-04
Perform a physical acquisition and review reports for recoverable deleted data	CFT-IMO-06
Acquire mobile device internal memory and review hash values for vendor supported data objects	CFT-IMO-09
Acquire mobile device internal memory and review the overall case file hash	CFT-IMO-10

Table 2b: Omitted Test Cases (LG VX6100)

Unsupported Optional Feature	Cases omitted (not executed)
Attempt internal memory acquisition of a nonsupported mobile device	CFT-IM-02
Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement	CFT-IM-03
Acquire mobile device internal memory and review reported data via the preview pane or generated reports for readability	CFT-IM-04

Acquire mobile device internal memory and review reported subscriber and equipment related information (i.e., MEID/ESN, MSISDN)	CFT-IM-05
Acquire mobile device internal memory and review reported PIM related data	CFT-IM-06
Acquire mobile device internal memory and review reported call logs	CFT-IM-07
Acquire mobile device internal memory and review reported text messages	CFT-IM-08
Acquire mobile device internal memory and review reported MMS multimedia related data (i.e., text, audio, graphics, video)	CFT-IM-09
Acquire mobile device internal memory and review reported stand-alone multimedia data (i.e., audio, graphics, video).	CFT-IM-10
Acquire mobile device internal memory and review reported data via supported generated report formats	CFT-IMO-01
Acquire mobile device internal memory and review reported data via the preview pane	CFT-IMO-02
Acquire mobile device internal memory and compare reported data via the preview pane and supported generated reports	CFT-IMO-03
After a successful mobile device internal memory acquisition, alter the case file via third-party means and attempt to reopen the case file.	CFT-IMO-04
Perform a physical acquisition and review data output for readability	CFT-IMO-05
Perform a physical acquisition and review reports for recoverable deleted data	CFT-IMO-06
Acquire mobile device internal memory and review generated log files	CFT-IMO-07
Acquire mobile device internal memory and review data containing foreign language characters	CFT-IMO-08
Acquire mobile device internal memory and review hash values for vendor supported data objects	CFT-IMO-09
Acquire mobile device internal memory and review the overall case file hash	CFT-IMO-10

Table 2c: Omitted Test Cases (Moto v710)

Unsupported Feature / Optional Feature	Cases omitted (not executed)
Acquire mobile device internal memory and review reported call logs	CFT-IM-07
After a successful mobile device internal memory acquisition, alter the case file via third-party means and attempt to reopen the case file	CFT-IMO-04

Unsupported Feature / Optional Feature	Cases omitted (not executed)
Perform a physical acquisition and review reports for recoverable deleted data	CFT-IMO-06
Acquire mobile device internal memory and review hash values for vendor supported data objects	CFT-IMO-09
Acquire mobile device internal memory and review the overall case file hash	CFT-IMO-10

Table 2d: Omitted Test Cases (SPH-a660)

Unsupported Feature / Optional Feature	Cases omitted (not executed)
Acquire mobile device internal memory and review reported call logs	CFT-IM-07
Acquire mobile device internal memory and review reported MMS multimedia related data (i.e., text, audio, graphics, video).	CFT-IM-09
Acquire mobile device internal memory and review reported stand-alone multimedia data (i.e., audio, graphics, video)	CFT-IM-10
After a successful mobile device internal memory acquisition, alter the case file via third-party means and attempt to reopen the case file	CFT-IMO-04
Acquire mobile device internal memory and review hash values for vendor supported data objects	CFT-IMO-09
Acquire mobile device internal memory and review the overall case file hash	CFT-IMO-10

3 Results by Test Assertion

Tables 3a–3d summarize the test results by assertion. The column labeled **Assertions Tested** 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 3a: Assertions Tested: (LG VX5400, SCH-u740)

Assertions Tested	Tests	Anomaly
A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).	9	
A_IM-02 If a cellular forensic tool attempts to connect to a nonsupported device then the tool shall have the ability to identify that the device is not supported.	1	
A_IM-03 If a cellular forensic tool encounters disengagement between the device and application then the application shall notify the user that	1	

connectivity has been disrupted.		
A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview pane or generated report.	7	
A_IM-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.	1	
A_IM-06 If a cellular forensic tool successfully completes acquisition of the target device then equipment related information shall be presented in a human-readable format without modification.	1	
A_IM-07 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries shall be presented in a human-readable format without modification.	1	
A_IM-08 If a cellular forensic tool successfully completes acquisition of the target device then all known maximum length address book entries shall be presented in a human-readable format without modification.	1	
A_IM-09 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing special characters shall be presented in a human-readable format without modification.	1	
A_IM-10 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing blank names shall be presented in a human-readable format without modification.	1	
A_IM-11 If a cellular forensic tool successfully completes acquisition of the target device then all known email addresses associated with address book entries shall be presented in a human-readable format without modification.	1	
A_IM-12 If a cellular forensic tool successfully completes acquisition of the target device then all known graphics associated with address book entries shall be presented in a human-readable format without modification.	1	
A_IM-13 If a cellular forensic tool successfully completes acquisition 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) shall be	1	

presented in a human-readable format without modification.		
A_IM-17 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated audio shall be presented properly without modification.	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_IMO-23 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.	4	
A_IMO-24 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.	4	
A_IMO-25 If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements.	1	
A_IMO-27 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-36 If the cellular forensic tool supports log creation then the application should present the log files consistent with the application documentation (e.g., outlining the acquisition process).	1	
A_IMO-37 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	3.2
A_IMO-38 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	3.2

Table 3b: Assertions Tested (LG VX6100)

Assertions Tested	Tests	Anomaly
A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).	1	3.1

Table 3c: Assertions Tested (Motorola V710)

Assertions Tested	Tests	Anomaly
A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).	8	
A_IM-02 If a cellular forensic tool attempts to connect to a nonsupported device then the tool shall have the ability to identify that the device is not supported.	1	
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.	1	
A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview pane or generated report.	6	
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.	1	
A_IM-06 If a cellular forensic tool successfully completes acquisition of the target device then equipment related information shall be presented in a human-readable format without modification.	1	
A_IM-07 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries shall be presented in a human-readable format without modification.	1	
A_IM-08 If a cellular forensic tool successfully completes acquisition of the target device then all known maximum length address book entries shall be presented in a human-readable format without modification.	1	
A_IM-09 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing special characters shall be presented in a human-readable format without modification.	1	
A_IM-10 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing blank names shall be presented in a human-readable format without modification.	1	
A_IM-11 If a cellular forensic tool successfully completes acquisition of the target device then all known email addresses associated with address book entries shall be presented in a human-readable format	1	

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-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_IMO-23 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.	4	
A_IMO-24 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.	4	
A_IMO-25 If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements.	1	
A_IMO-27 If the cellular forensic tool supports a physical acquisition	1	

of the target device then the tool shall successfully complete the acquisition and present the data in a human-readable format.		
A_IMO-36 If the cellular forensic tool supports log creation then the application should present the log files consistent with the application documentation (e.g., outlining the acquisition process).	1	
A_IMO-37 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	3.2
A_IMO-38 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	3.2

Table 3d: Assertions Tested (SPH a660)

Assertions Tested	Tests	Anomaly
A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).	6	
A_IM-02 If a cellular forensic tool attempts to connect to a nonsupported device then the tool shall have the ability to identify that the device is not supported.	1	
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.	1	
A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview pane or generated report.	4	
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.	1	
A_IM-06 If a cellular forensic tool successfully completes acquisition of the target device then equipment related information shall be presented in a human-readable format without modification.	1	
A_IM-07 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries shall be presented in a human-readable format without modification.	1	
A_IM-08 If a cellular forensic tool successfully completes acquisition of the target device then all known maximum length address book entries shall be presented in a human-readable format without modification.	1	
A_IM-09 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing special characters shall be presented in a human-readable format	1	

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.	1	
A_IM-11 If a cellular forensic tool successfully completes acquisition of the target device then all known email addresses associated with address book entries shall be presented in a human-readable format without modification.	1	
A_IM-12 If a cellular forensic tool successfully completes acquisition of the target device then all known graphics associated with address book entries shall be presented in a human-readable format without modification.	1	
A_IM-13 If a cellular forensic tool successfully completes acquisition 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-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_IMO-23 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.	5	
A_IMO-24 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.	5	
A_IMO-25 If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements.	1	
A_IMO-27 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-28 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 entries or data remnants in a human-readable format.	1	
A_IMO-29 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 entries or data remnants in a human-readable format.	1	
A_IMO-30 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 log data or data remnants in a human-readable	1	

format.		
A_IMO-31 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-32 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-33 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-34 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-35 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-36 If the cellular forensic tool supports log creation then the application should present the log files consistent with the application documentation (e.g., outlining the acquisition process).	1	
A_IMO-37 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-38 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	3.2

Tables 4a–4d list the assertions that were not tested, usually due to the tool not supporting an optional feature.

Table 4a: Assertions Not Tested (LG VX5400, SCH u740)

Assertions not Tested
A_IMO-26 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.
A_IMO-28 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 entries or data remnants in a human-readable format.
A_IMO-29 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 entries or data remnants in a human-readable format.
A_IMO-30 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 log data or data remnants in a human-readable format.
A_IMO-31 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-32 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-33 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-34 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-35 If the cellular forensic tool supports a physical acquisition of video files present on the target device then the tool shall report recoverable deleted video file data or video file data remnants in a human-readable format.
A_IMO-39 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.
A_IMO-40 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.

Table 4b: Assertions Not Tested (LG VX6100)

Assertions not Tested
A_IM-02 If a cellular forensic tool attempts to connect to a nonsupported device then the tool shall have the ability to identify that the device is not supported.
A_IM-03 If a cellular forensic tool encounters disengagement between the device and application then the application shall notify the user that connectivity has been disrupted.
A_IM-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.
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.
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.
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.
A_IM-17 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated audio shall be presented properly without modification.
A_IM-18 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated images shall be presented properly without modification.
A_IM-19 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated video shall be presented properly without modification.
A_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.
A_IMO-23 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-24 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-25 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.
A_IMO-26 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.
A_IMO-27 If the cellular forensic tool supports a physical acquisition of the target device then the tool shall successfully complete the acquisition and present the data in a human-readable format.
A_IMO-28 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 entries or data remnants in a human-readable format.
A_IMO-29 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 entries or data remnants in a human-readable format.
A_IMO-30 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 log data or data remnants in a human-readable format.
A_IMO-31 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-32 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-33 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-34 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-35 If the cellular forensic tool supports a physical acquisition of video files present on the target device then the tool shall report recoverable deleted video file data or video file data remnants in a human-readable format.
A_IMO-36 If the cellular forensic tool supports log creation then the application should present the log files consistent with the application documentation (e.g., outlining the acquisition process).
A_IMO-37 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-38 If the cellular forensic tool supports proper display of foreign language character sets then the application should present text messages containing foreign language characters in their native format without modification.
A_IMO-39 If the cellular forensic tool supports hashing for individual data objects then

the tool shall present the user with a hash value for each supported data object.

A_IMO-40 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.

Table 4c: Assertions Not Tested (Moto v710)

Assertions not Tested
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.
A_IMO-26 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.
A_IMO-28 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 entries or data remnants in a human-readable format.
A_IMO-29 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 entries or data remnants in a human-readable format.
A_IMO-30 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 log data or data remnants in a human-readable format.
A_IMO-31 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-32 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-33 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-34 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-35 If the cellular forensic tool supports a physical acquisition of video files present on the target device then the tool shall report recoverable deleted video file data or video file data remnants in a human-readable format.
A_IMO-39 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.
A_IMO-40 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.

Table 4d: Assertions Not Tested (Samsung SPH-a660)

Assertions not Tested
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.
A_IM-17 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated audio shall be presented properly without modification.
A_IM-18 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated images shall be presented properly without modification.
A_IM-19 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated video shall be presented properly without modification.
A_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.
A_IMO-26 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.
A_IMO-39 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.
A_IMO-40 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.

3.1 Device Connectivity

Connectivity with the LG VX6100 over a cable interface was not established. BitPim generated the following log file:

```
13:23:38.108 COM11: Opening port COM11, 115200 baud, timeout 3.000000, hardwareflow 0, softwareflow 0
13:23:38.233 COM11: Open of comm port succeeded
13:23:38.233 LG-VX6100: Attempting to contact phone
13:23:38.233 LG-VX6100: Listing subdirs in dir: ''
13:23:38.250 LG-VX6100: X recurse=0
13:23:41.265 COM11: Timed out - flushing and trying again
13:23:44.265 COM11: Timed out waiting for 7e, requested bytes 1 - 0 bytes read
13:23:47.280 COM11: Timed out - flushing and trying again
13:23:50.296 COM11: Timed out waiting for 7e, requested bytes 1 - 0 bytes read
13:23:50.342 COM11: Changed port speed to 38400
13:23:53.858 COM11: Timed out - flushing and trying again
13:23:56.875 COM11: Timed out waiting for 7e, requested bytes 1 - 0 bytes read
13:23:56.921 COM11: Changed port speed to 115200
13:24:00.437 COM11: Timed out - flushing and trying again
13:24:03.453 COM11: Timed out waiting for 7e, requested bytes 1 - 0 bytes read
13:24:06.467 LG-VX6100: No response to AT+GMM
13:24:09.483 LG-VX6100: No response to setting QCDMG mode
13:24:09.530 COM11: Changed port speed to 115200
13:24:13.046 LG-VX6100: No response to AT+GMM
13:24:16.062 LG-VX6100: No response to setting QCDMG mode
13:24:16.125 COM11: Changed port speed to 19200
13:24:19.640 LG-VX6100: No response to AT+GMM
13:24:22.640 LG-VX6100: No response to setting QCDMG mode
13:24:22.703 COM11: Changed port speed to 230400
13:24:26.217 LG-VX6100: No response to AT+GMM
13:24:29.233 LG-VX6100: No response to setting QCDMG mode
13:24:32.250 COM11: Timed out - flushing and trying again
13:24:35.250 COM11: Timed out waiting for 7e, requested bytes 1 - 0 bytes read
13:24:35.312 COM11: Changed port speed to 38400
13:24:38.828 COM11: Timed out - flushing and trying again
13:24:41.828 COM11: Timed out waiting for 7e, requested bytes 1 - 0 bytes read
13:24:41.890 COM11: Changed port speed to 115200
13:24:45.405 COM11: Timed out - flushing and trying again
13:24:48.421 COM11: Timed out waiting for 7e, requested bytes 1 - 0 bytes read
13:24:48.421 Failed to read filesystem
13:24:48.421 LG-VX6100: Listing files in dir: ''
13:24:51.437 COM11: Timed out - flushing and trying again
13:24:54.437 COM11: Timed out waiting for 7e, requested bytes 1 - 0 bytes read
13:24:57.453 COM11: Timed out - flushing and trying again
```

3.2 Acquisition of Data Containing Non-ASCII Characters

Address book entries containing non-ASCII characters were not reported in their native format (e.g., characters containing accent marks such as: à, é were excluded) for the following devices: LG vx5400, Samsung SCH u740.

Text messages containing non-ASCII characters were not reported in their native format (e.g., characters containing accent marks such as: à, é were excluded from the text) for the following devices: LG vx5400, Motorola v710, Samsung SCH u740, Samsung SPH a660.

Address book entries and text messages containing characters such as: 阿恶哈拉 were not reported.

4 Testing Environment

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

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 2 Test Results Report Key

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

5.2 Test Details

5.2.1 CFT-IM-01 (LG VX5400)

Test Case CFT-IM-01 BitPim 1.0.6-official																																																																																			
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 Jul 13 12:00:26 EDT 2009																																																																																		
Device:	LG vx5400																																																																																		
Source Setup:	OS: WIN XP Interface: cable																																																																																		
	<table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Address Book Entries</td> <td>Maximum Length</td> </tr> <tr> <td></td> <td>Regular Length, email, picture</td> </tr> <tr> <td></td> <td>Special Character</td> </tr> <tr> <td></td> <td>Blank Name</td> </tr> <tr> <td></td> <td>Regular Length, Deleted email - deleted picture</td> </tr> <tr> <td></td> <td>Deleted Entry</td> </tr> <tr> <td></td> <td>Foreign Entry</td> </tr> <tr> <td>PIM Data</td> <td>Maximum Length</td> </tr> <tr> <td></td> <td>Regular Length</td> </tr> <tr> <td></td> <td>Deleted Entry</td> </tr> <tr> <td></td> <td>Special Character</td> </tr> <tr> <td>Call Logs</td> <td>Missed</td> </tr> <tr> <td></td> <td>Missed - Deleted</td> </tr> <tr> <td></td> <td>Incoming</td> </tr> <tr> <td></td> <td>Incoming - Deleted</td> </tr> <tr> <td></td> <td>Outgoing</td> </tr> <tr> <td></td> <td>Outgoing - Deleted</td> </tr> <tr> <td>Text Messages</td> <td>Incoming SMS - Read</td> </tr> <tr> <td></td> <td>Incoming SMS - Unread</td> </tr> <tr> <td></td> <td>Incoming SMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing SMS</td> </tr> <tr> <td></td> <td>Outgoing SMS - Deleted</td> </tr> <tr> <td></td> <td>Incoming EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Unread</td> </tr> <tr> <td></td> <td>Incoming Foreign EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing EMS</td> </tr> <tr> <td></td> <td>Outgoing EMS - Deleted</td> </tr> <tr> <td>MMS Messages</td> <td>Incoming Audio</td> </tr> <tr> <td></td> <td>Incoming Image</td> </tr> <tr> <td></td> <td>Incoming Video</td> </tr> <tr> <td></td> <td>Outgoing Audio</td> </tr> <tr> <td></td> <td>Outgoing Image</td> </tr> <tr> <td></td> <td>Outgoing Video</td> </tr> <tr> <td>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>	DATA OBJECTS	DATA ELEMENTS	Address Book Entries	Maximum Length		Regular Length, email, picture		Special Character		Blank Name		Regular Length, Deleted email - deleted picture		Deleted Entry		Foreign Entry	PIM Data	Maximum Length		Regular Length		Deleted Entry		Special Character	Call Logs	Missed		Missed - Deleted		Incoming		Incoming - Deleted		Outgoing		Outgoing - Deleted	Text Messages	Incoming SMS - Read		Incoming SMS - Unread		Incoming SMS - Deleted		Outgoing SMS		Outgoing SMS - Deleted		Incoming EMS - Read		Incoming EMS - Unread		Incoming Foreign EMS - Read		Incoming EMS - Deleted		Outgoing EMS		Outgoing EMS - Deleted	MMS Messages	Incoming Audio		Incoming Image		Incoming Video		Outgoing Audio		Outgoing Image		Outgoing Video	Stand-alone data files	Audio		Audio - Deleted		Image		Image - Deleted		Video		Video - Deleted
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Text Messages	Incoming SMS - Read																																																																																		
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	Incoming EMS - Unread																																																																																		
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MMS Messages	Incoming Audio																																																																																		
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	Audio - Deleted																																																																																		
	Image																																																																																		
	Image - Deleted																																																																																		
	Video																																																																																		
	Video - Deleted																																																																																		

Test Case CFT-IM-01 BitPim 1.0.6-official					
Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Mon Jul 13 12:00:26 EDT 2009 Acquisition finished: Mon Jul 13 12:03:19 EDT 2009</p> <p>Device connectivity was established via supported interface</p>				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IM-01 Device connectivity via supported interfaces.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IM-01 Device connectivity via supported interfaces.	as expected
Assertion & Expected Result	Actual Result				
A IM-01 Device connectivity via supported interfaces.	as expected				
Analysis:	Expected results achieved				

5.2.2 CFT-IM-02 (LG VX5400)

Test Case CFT-IM-02 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IM-02 Attempt internal memory acquisition of a non-supported mobile device.																																																																																														
Assertions:	A IM-02 If a cellular forensic tool attempts to connect to a non-supported device then the tool shall have the ability to identify that the device is not supported.																																																																																														
Tester Name:	rpa																																																																																														
Test Host:	Morrisy																																																																																														
Test Date:	Mon Jul 13 12:04:23 EDT 2009																																																																																														
Device:	non supported device																																																																																														
Source Setup:	<p>OS: WIN XP Interface: cable</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Address Book Entries</td> <td></td> </tr> <tr> <td></td> <td>Maximum Length</td> </tr> <tr> <td></td> <td>Regular Length, email, picture</td> </tr> <tr> <td></td> <td>Special Character</td> </tr> <tr> <td></td> <td>Blank Name</td> </tr> <tr> <td></td> <td>Regular Length, Deleted email - deleted picture</td> </tr> <tr> <td></td> <td>Deleted Entry</td> </tr> <tr> <td></td> <td>Foreign Entry</td> </tr> <tr> <td>PIM Data</td> <td></td> </tr> <tr> <td></td> <td>Maximum Length</td> </tr> <tr> <td></td> <td>Regular Length</td> </tr> <tr> <td></td> <td>Deleted Entry</td> </tr> <tr> <td></td> <td>Special Character</td> </tr> <tr> <td>Call Logs</td> <td></td> </tr> <tr> <td></td> <td>Missed</td> </tr> <tr> <td></td> <td>Missed - Deleted</td> </tr> <tr> <td></td> <td>Incoming</td> </tr> <tr> <td></td> <td>Incoming - Deleted</td> </tr> <tr> <td></td> <td>Outgoing</td> </tr> <tr> <td></td> <td>Outgoing - Deleted</td> </tr> <tr> <td>Text Messages</td> <td></td> </tr> <tr> <td></td> <td>Incoming SMS - Read</td> </tr> <tr> <td></td> <td>Incoming SMS - Unread</td> </tr> <tr> <td></td> <td>Incoming SMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing SMS</td> </tr> <tr> <td></td> <td>Outgoing SMS - Deleted</td> </tr> <tr> <td></td> <td>Incoming EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Unread</td> </tr> <tr> <td></td> <td>Incoming Foreign EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing EMS</td> </tr> <tr> <td></td> <td>Outgoing EMS - Deleted</td> </tr> <tr> <td>MMS Messages</td> <td></td> </tr> <tr> <td></td> <td>Incoming Audio</td> </tr> <tr> <td></td> <td>Incoming Image</td> </tr> <tr> <td></td> <td>Incoming Video</td> </tr> <tr> <td></td> <td>Outgoing Audio</td> </tr> <tr> <td></td> <td>Outgoing Image</td> </tr> <tr> <td></td> <td>Outgoing Video</td> </tr> <tr> <td>Stand-alone data files</td> <td></td> </tr> <tr> <td></td> <td>Audio</td> </tr> <tr> <td></td> <td>Audio - Deleted</td> </tr> <tr> <td></td> <td>Image</td> </tr> <tr> <td></td> <td>Image - Deleted</td> </tr> <tr> <td></td> <td>Video</td> </tr> <tr> <td></td> <td>Video - Deleted</td> </tr> </tbody> </table>	DATA OBJECTS	DATA ELEMENTS	Address Book Entries			Maximum Length		Regular Length, email, picture		Special Character		Blank Name		Regular Length, Deleted email - deleted picture		Deleted Entry		Foreign Entry	PIM Data			Maximum Length		Regular Length		Deleted Entry		Special Character	Call Logs			Missed		Missed - Deleted		Incoming		Incoming - Deleted		Outgoing		Outgoing - Deleted	Text Messages			Incoming SMS - Read		Incoming SMS - Unread		Incoming SMS - Deleted		Outgoing SMS		Outgoing SMS - Deleted		Incoming EMS - Read		Incoming EMS - Unread		Incoming Foreign EMS - Read		Incoming EMS - Deleted		Outgoing EMS		Outgoing EMS - Deleted	MMS Messages			Incoming Audio		Incoming Image		Incoming Video		Outgoing Audio		Outgoing Image		Outgoing Video	Stand-alone data files			Audio		Audio - Deleted		Image		Image - Deleted		Video		Video - Deleted
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Test Case CFT-IM-02 BitPim 1.0.6-official					
Highlights:	Acquisition started: Mon Jul 13 12:04:23 EDT 2009 Acquisition finished: Mon Jul 13 12:05:50 EDT 2009 Identification of non-supported devices was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IM-02 Identification of non-supported devices.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IM-02 Identification of non-supported devices.	as expected
Assertion & Expected Result	Actual Result				
A IM-02 Identification of non-supported devices.	as expected				
Analysis:	Expected results achieved				

5.2.3 CFT-IM-03 (LG VX5400)

Test Case CFT-IM-03 BitPim 1.0.6-official																																																																																															
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 Jul 13 12:19:01 EDT 2009																																																																																														
Device:	LG vx5400																																																																																														
Source Setup:	OS: WIN XP Interface: cable																																																																																														
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Test Case CFT-IM-03 BitPim 1.0.6-official							
Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Mon Jul 13 12:19:01 EDT 2009 Acquisition finished: Mon Jul 13 12:21:48 EDT 2009</p> <p>Device connectivity was established via supported interface Device acquisition disruption notification was successful</p>						
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IM-01 Device connectivity via supported interfaces.</td> <td>as expected</td> </tr> <tr> <td>A IM-03 Notification of device acquisition disruption.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IM-01 Device connectivity via supported interfaces.	as expected	A IM-03 Notification of device acquisition disruption.	as expected
Assertion & Expected Result	Actual Result						
A IM-01 Device connectivity via supported interfaces.	as expected						
A IM-03 Notification of device acquisition disruption.	as expected						
Analysis:	Expected results achieved						

5.2.4 CFT-IM-04 (LG VX5400)

Test Case CFT-IM-04 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IM-04 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.																																																																																														
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.																																																																																														
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Test Case CFT-IM-04 BitPim 1.0.6-official							
Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Mon Jul 13 12:29:50 EDT 2009 Acquisition finished: Mon Jul 13 12:35:07 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was successful</p>						
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IM-01 Device connectivity via supported interfaces.</td> <td>as expected</td> </tr> <tr> <td>A_IM-04 Readability and completeness of acquired data via supported reports.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IM-01 Device connectivity via supported interfaces.	as expected	A_IM-04 Readability and completeness of acquired data via supported reports.	as expected
Assertion & Expected Result	Actual Result						
A IM-01 Device connectivity via supported interfaces.	as expected						
A_IM-04 Readability and completeness of acquired data via supported reports.	as expected						
Analysis:	Expected results achieved						

5.2.5 CFT-IM-05 (LG VX5400)

Test Case CFT-IM-05 BitPim 1.0.6-official																																																																									
Case Summary:	CFT-IM-05 Acquire mobile device internal memory and review reported subscriber and equipment related information (i.e., MEID, MSISDN).																																																																								
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Mon Jul 13 12:49:29 EDT 2009 Acquisition finished: Mon Jul 13 12:54:20 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was successful Subscriber and Equipment related data (i.e., MSISDN, MEID) were acquired</p>												
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5.2.6 CFT-IM-06 (LG VX5400)

Test Case CFT-IM-06 BitPim 1.0.6-official																									
Case Summary:	CFT-IM-06 Acquire mobile device internal memory and review reported PIM related data.																								
Assertions:	<p>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.</p> <p>A_IM-07 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries shall be presented in a human-readable format without modification.</p> <p>A_IM-08 If a cellular forensic tool successfully completes acquisition of the target device then all known maximum length address book entries shall be presented in a human-readable format without modification.</p> <p>A_IM-09 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing special characters shall be presented in a human-readable format without modification.</p> <p>A_IM-10 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing blank names shall be presented in a human-readable format without modification.</p> <p>A_IM-11 If a cellular forensic tool successfully completes acquisition of the target device then all known email addresses associated with address book entries shall be presented in a human-readable format without modification.</p> <p>A_IM-12 If a cellular forensic tool successfully completes acquisition of the target device then all known graphics associated with address book entries shall be presented in a human-readable format without modification.</p> <p>A_IM-13 If a cellular forensic tool successfully completes acquisition of the target device then all known datebook, calendar, note entries shall be presented in a human-readable format without modification.</p> <p>A_IM-14 If a cellular forensic tool successfully completes acquisition of the target device then all maximum length datebook, calendar, note entries shall be presented in a human readable format without modification.</p>																								
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Test Host:	Morrisy																								
Test Date:	Mon Jul 13 13:18:05 EDT 2009																								
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Mon Jul 13 13:18:05 EDT 2009 Acquisition finished: Mon Jul 13 13:21:47 EDT 2009</p> <p>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</p>																																																		
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5.2.7 CFT-IM-07 (LG VX5400)

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	Video								
	Video - Deleted								
Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Mon Jul 13 13:22:38 EDT 2009 Acquisition finished: Mon Jul 13 13:26:11 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was successful All Call Logs (incoming, outgoing) were acquired</p>								
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IM-01 Device connectivity via supported interfaces.</td> <td>as expected</td> </tr> <tr> <td>A IM-04 Readability and completeness of acquired data via supported reports.</td> <td>as expected</td> </tr> <tr> <td>A IM-15 Acquisition of call logs.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IM-01 Device connectivity via supported interfaces.	as expected	A IM-04 Readability and completeness of acquired data via supported reports.	as expected	A IM-15 Acquisition of call logs.	as expected
Assertion & Expected Result	Actual Result								
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A IM-04 Readability and completeness of acquired data via supported reports.	as expected								
A IM-15 Acquisition of call logs.	as expected								
Analysis:	Expected results achieved								

5.2.8 CFT-IM-08 (LG VX5400)

Test Case CFT-IM-08 BitPim 1.0.6-official																																																																																									
Case Summary:	CFT-IM-08 Acquire mobile device internal memory and review reported text messages.																																																																																								
Assertions:	<p>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.</p> <p>A_IM-16 If a cellular forensic tool successfully completes acquisition of the target device then all text messages (i.e., SMS, EMS) messages shall be presented in a human-readable format without modification.</p>																																																																																								
Tester Name:	rpa																																																																																								
Test Host:	Morrisy																																																																																								
Test Date:	Mon Jul 13 13:27:45 EDT 2009																																																																																								
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Mon Jul 13 13:27:45 EDT 2009 Acquisition finished: Mon Jul 13 13:37:22 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was successful ALL text messages (SMS, EMS) were acquired</p>								
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A IM-16 Acquisition of text messages.	as expected								
Analysis:	Expected results achieved								

5.2.9 CFT-IM-09 (LG VX5400)

Test Case CFT-IM-09 BitPim 1.0.6-official																																																																													
Case Summary:	CFT-IM-09 Acquire mobile device internal memory and review reported MMS multi-media related data (i.e., text, audio, graphics, video).																																																																												
Assertions:	<p>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.</p> <p>A_IM-17 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated audio shall be presented properly without modification.</p> <p>A_IM-18 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated images shall be presented properly without modification.</p> <p>A_IM-19 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated video shall be presented properly without modification.</p>																																																																												
Tester Name:	rpa																																																																												
Test Host:	Morrisy																																																																												
Test Date:	Mon Jul 13 13:59:55 EDT 2009																																																																												
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Test Case CFT-IM-09 BitPim 1.0.6-official																			
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Mon Jul 13 13:59:55 EDT 2009 Acquisition finished: Mon Jul 13 14:09:39 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was successful Audio MMS messages were acquired Image MMS messages were acquired Video MMS messages were not acquired - NA</p>																		
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Analysis:	Expected results achieved																		

5.2.10 CFT-IM-10 (LG VX5400)

Test Case CFT-IM-10 BitPim 1.0.6-official																																																																							
Case Summary:	CFT-IM-10 Acquire mobile device internal memory and review reported stand-alone multi-media data (i.e., audio, graphics, video).																																																																						
Assertions:	<p>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.</p> <p>A_IM-20 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone audio files shall be playable via either an internal application or suggested third-party application without modification.</p> <p>A_IM-21 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone image files shall be viewable via either an internal application or suggested third-party application without modification.</p> <p>A_IM-22 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone video files shall be viewable via either an internal application or suggested third-party application without modification.</p>																																																																						
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Test Case CFT-IM-10 BitPim 1.0.6-official																									
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Mon Jul 13 14:10:57 EDT 2009 Acquisition finished: Mon Jul 13 14:12:37 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was successful Audio files were acquired Image files were acquired Video files were not acquired - NA</p>																								
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5.2.11 CFT-IMO-01 (LG VX5400)

Test Case CFT-IMO-01 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IMO-01 Acquire mobile device internal memory and review reported data via supported generated report formats.																																																																																														
Assertions:	A IMO-23 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.																																																																																														
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Test Case CFT-IMO-01 BitPim 1.0.6-official					
Highlights:	Acquisition started: Tue Jul 14 08:08:16 EDT 2009 Acquisition finished: Tue Jul 14 08:23:50 EDT 2009 Complete representation of known data via generated reports was successful				
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Analysis:	Expected results achieved				

5.2.12 CFT-IMO-02 (LG VX5400)

Test Case CFT-IMO-02 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IMO-02 Acquire mobile device internal memory and review reported data via the preview-pane.																																																																																														
Assertions:	A IMO-24 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.																																																																																														
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Test Case CFT-IMO-02 BitPim 1.0.6-official					
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Assertion & Expected Result	Actual Result				
A_IMO-24 Comparison of known device data elements via preview-pane.	as expected				
Analysis:	Expected results achieved				

5.2.13 CFT-IMO-03 (LG VX5400)

Test Case CFT-IMO-03 BitPim 1.0.6-official																																																																																													
Case Summary:	CFT-IMO-03 Acquire mobile device internal memory and compare reported data via the preview-pane and supported generated reports.																																																																																												
Assertions:	<p>A_IMO-23 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.</p> <p>A_IMO-24 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.</p> <p>A_IMO-25 If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements.</p>																																																																																												
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Test Case CFT-IMO-03 BitPim 1.0.6-official									
	Video - Deleted								
Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Tue Jul 14 08:28:16 EDT 2009 Acquisition finished: Tue Jul 14 08:33:07 EDT 2009</p> <p>Complete representation of known data via generated reports was successful Complete representation of known data via preview-pane was successful Consistency between generated reports and preview-pane was successful</p>								
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-23 Comparison of known device data elements via generated reports.</td> <td>as expected</td> </tr> <tr> <td>A_IMO-24 Comparison of known device data elements via preview-pane.</td> <td>as expected</td> </tr> <tr> <td>A_IMO-25 Compare generated reports and preview-pane views for device acquisition.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IMO-23 Comparison of known device data elements via generated reports.	as expected	A_IMO-24 Comparison of known device data elements via preview-pane.	as expected	A_IMO-25 Compare generated reports and preview-pane views for device acquisition.	as expected
Assertion & Expected Result	Actual Result								
A_IMO-23 Comparison of known device data elements via generated reports.	as expected								
A_IMO-24 Comparison of known device data elements via preview-pane.	as expected								
A_IMO-25 Compare generated reports and preview-pane views for device acquisition.	as expected								
Analysis:	Expected results achieved								

5.2.14 CFT-IMO-05 (LG VX5400)

Test Case CFT-IMO-05 BitPim 1.0.6-official																																																																																													
Case Summary:	CFT-IMO-05 Perform a physical acquisition and review data output for readability.																																																																																												
Assertions:	<p>A_IMO-23 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.</p> <p>A_IMO-24 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.</p> <p>A_IMO-27 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.</p>																																																																																												
Tester Name:	rpa																																																																																												
Test Host:	Morrisy																																																																																												
Test Date:	Tue Jul 14 08:37:42 EDT 2009																																																																																												
Device:	LG vx5400																																																																																												
Source Setup:	<p>OS: WIN XP Interface: cable</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Address Book Entries</td> <td></td> </tr> <tr> <td></td> <td>Maximum Length</td> </tr> <tr> <td></td> <td>Regular Length, email, picture</td> </tr> <tr> <td></td> <td>Special Character</td> </tr> <tr> <td></td> <td>Blank Name</td> </tr> <tr> <td></td> <td>Regular Length, Deleted email - deleted picture</td> </tr> <tr> <td></td> <td>Deleted Entry</td> </tr> <tr> <td></td> <td>Foreign Entry</td> </tr> <tr> <td>PIM Data</td> <td></td> </tr> <tr> <td></td> <td>Maximum Length</td> </tr> <tr> <td></td> <td>Regular Length</td> </tr> <tr> <td></td> <td>Deleted Entry</td> </tr> <tr> <td></td> <td>Special Character</td> </tr> <tr> <td>Call Logs</td> <td></td> </tr> <tr> <td></td> <td>Missed</td> </tr> <tr> <td></td> <td>Missed - Deleted</td> </tr> <tr> <td></td> <td>Incoming</td> </tr> <tr> <td></td> <td>Incoming - Deleted</td> </tr> <tr> <td></td> <td>Outgoing</td> </tr> <tr> <td></td> <td>Outgoing - Deleted</td> </tr> <tr> <td>Text Messages</td> <td></td> </tr> <tr> <td></td> <td>Incoming SMS - Read</td> </tr> <tr> <td></td> <td>Incoming SMS - Unread</td> </tr> <tr> <td></td> <td>Incoming SMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing SMS</td> </tr> <tr> <td></td> <td>Outgoing SMS - Deleted</td> </tr> <tr> <td></td> <td>Incoming EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Unread</td> </tr> <tr> <td></td> <td>Incoming Foreign EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing EMS</td> </tr> <tr> <td></td> <td>Outgoing EMS - Deleted</td> </tr> <tr> <td>MMS Messages</td> <td></td> </tr> <tr> <td></td> <td>Incoming Audio</td> </tr> <tr> <td></td> <td>Incoming Image</td> </tr> <tr> <td></td> <td>Incoming Video</td> </tr> <tr> <td></td> <td>Outgoing Audio</td> </tr> <tr> <td></td> <td>Outgoing Image</td> </tr> <tr> <td></td> <td>Outgoing Video</td> </tr> <tr> <td>Stand-alone data files</td> <td></td> </tr> <tr> <td></td> <td>Audio</td> </tr> <tr> <td></td> <td>Audio - Deleted</td> </tr> <tr> <td></td> <td>Image</td> </tr> <tr> <td></td> <td>Image - Deleted</td> </tr> <tr> <td></td> <td>Video</td> </tr> </tbody> </table>	DATA OBJECTS	DATA ELEMENTS	Address Book Entries			Maximum Length		Regular Length, email, picture		Special Character		Blank Name		Regular Length, Deleted email - deleted picture		Deleted Entry		Foreign Entry	PIM Data			Maximum Length		Regular Length		Deleted Entry		Special Character	Call Logs			Missed		Missed - Deleted		Incoming		Incoming - Deleted		Outgoing		Outgoing - Deleted	Text Messages			Incoming SMS - Read		Incoming SMS - Unread		Incoming SMS - Deleted		Outgoing SMS		Outgoing SMS - Deleted		Incoming EMS - Read		Incoming EMS - Unread		Incoming Foreign EMS - Read		Incoming EMS - Deleted		Outgoing EMS		Outgoing EMS - Deleted	MMS Messages			Incoming Audio		Incoming Image		Incoming Video		Outgoing Audio		Outgoing Image		Outgoing Video	Stand-alone data files			Audio		Audio - Deleted		Image		Image - Deleted		Video
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Test Case CFT-IMO-05 BitPim 1.0.6-official									
	Video - Deleted								
Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Tue Jul 14 08:37:42 EDT 2009 Acquisition finished: Tue Jul 14 08:44:15 EDT 2009</p> <p>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</p>								
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-23 Comparison of known device data elements via generated reports.</td> <td>as expected</td> </tr> <tr> <td>A_IMO-24 Comparison of known device data elements via preview-pane.</td> <td>as expected</td> </tr> <tr> <td>A_IMO-27 Readability and completeness of data acquired via a physical acquisition.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IMO-23 Comparison of known device data elements via generated reports.	as expected	A_IMO-24 Comparison of known device data elements via preview-pane.	as expected	A_IMO-27 Readability and completeness of data acquired via a physical acquisition.	as expected
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A_IMO-27 Readability and completeness of data acquired via a physical acquisition.	as expected								
Analysis:	Expected results achieved								

5.2.15 CFT-IMO-07 (LG VX5400)

Test Case CFT-IMO-07 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IMO-07 Acquire mobile device internal memory and review generated log files.																																																																																														
Assertions:	A IMO-36 If the cellular forensic tool supports log creation then the application should present the log files outlining the acquisition process in a human-readable format.																																																																																														
Tester Name:	rpa																																																																																														
Test Host:	Morrisy																																																																																														
Test Date:	Tue Jul 14 08:56:55 EDT 2009																																																																																														
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Log	Created By BitPim Version 1.0.6 - official																																																																																														

Test Case CFT-IMO-07 BitPim 1.0.6-official					
Highlights:	Acquisition started: Tue Jul 14 08:56:55 EDT 2009 Acquisition finished: Tue Jul 14 08:58:32 EDT 2009 Creation of complete and human-readable log files was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IMO-36 Device Log file output.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IMO-36 Device Log file output.	as expected
Assertion & Expected Result	Actual Result				
A IMO-36 Device Log file output.	as expected				
Analysis:	Expected results achieved				

5.2.16 CFT-IMO-08 (LG VX5400)

Test Case CFT-IMO-08 BitPim 1.0.6-official																																																																																	
Case Summary:	CFT-IMO-08 Acquire mobile device internal memory and review data containing foreign language characters.																																																																																
Assertions:	<p>A_IMO-23 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.</p> <p>A_IMO-24 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.</p> <p>A_IMO-37 If the cellular forensic tool supports proper display of foreign language character sets then the application should present address book entries containing foreign language characters in their native format without modification.</p> <p>A_IMO-38 If the cellular forensic tool supports proper display of foreign language character sets then the application should present text messages containing foreign language characters in their native format without modification.</p>																																																																																
Tester Name:	rpa																																																																																
Test Host:	Morrisy																																																																																
Test Date:	Tue Jul 14 08:58:59 EDT 2009																																																																																
Device:	LG vx5400																																																																																
Source Setup:	<p>OS: WIN XP Interface: cable</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Address Book Entries</td> <td></td> </tr> <tr> <td></td> <td>Maximum Length</td> </tr> <tr> <td></td> <td>Regular Length, email, picture</td> </tr> <tr> <td></td> <td>Special Character</td> </tr> <tr> <td></td> <td>Blank Name</td> </tr> <tr> <td></td> <td>Regular Length, Deleted email - deleted picture</td> </tr> <tr> <td></td> <td>Deleted Entry</td> </tr> <tr> <td></td> <td>Foreign Entry</td> </tr> <tr> <td>PIM Data</td> <td></td> </tr> <tr> <td></td> <td>Maximum Length</td> </tr> <tr> <td></td> <td>Regular Length</td> </tr> <tr> <td></td> <td>Deleted Entry</td> </tr> <tr> <td></td> <td>Special Character</td> </tr> <tr> <td>Call Logs</td> <td></td> </tr> <tr> <td></td> <td>Missed</td> </tr> <tr> <td></td> <td>Missed - Deleted</td> </tr> <tr> <td></td> <td>Incoming</td> </tr> <tr> <td></td> <td>Incoming - Deleted</td> </tr> <tr> <td></td> <td>Outgoing</td> </tr> <tr> <td></td> <td>Outgoing - Deleted</td> </tr> <tr> <td>Text Messages</td> <td></td> </tr> <tr> <td></td> <td>Incoming SMS - Read</td> </tr> <tr> <td></td> <td>Incoming SMS - Unread</td> </tr> <tr> <td></td> <td>Incoming SMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing SMS</td> </tr> <tr> <td></td> <td>Outgoing SMS - Deleted</td> </tr> <tr> <td></td> <td>Incoming EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Unread</td> </tr> <tr> <td></td> <td>Incoming Foreign EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing EMS</td> </tr> <tr> <td></td> <td>Outgoing EMS - Deleted</td> </tr> <tr> <td>MMS Messages</td> <td></td> </tr> <tr> <td></td> <td>Incoming Audio</td> </tr> <tr> <td></td> <td>Incoming Image</td> </tr> <tr> <td></td> <td>Incoming Video</td> </tr> <tr> <td></td> <td>Outgoing Audio</td> </tr> <tr> <td></td> <td>Outgoing Image</td> </tr> <tr> <td></td> <td>Outgoing Video</td> </tr> </tbody> </table>	DATA OBJECTS	DATA ELEMENTS	Address Book Entries			Maximum Length		Regular Length, email, picture		Special Character		Blank Name		Regular Length, Deleted email - deleted picture		Deleted Entry		Foreign Entry	PIM Data			Maximum Length		Regular Length		Deleted Entry		Special Character	Call Logs			Missed		Missed - Deleted		Incoming		Incoming - Deleted		Outgoing		Outgoing - Deleted	Text Messages			Incoming SMS - Read		Incoming SMS - Unread		Incoming SMS - Deleted		Outgoing SMS		Outgoing SMS - Deleted		Incoming EMS - Read		Incoming EMS - Unread		Incoming Foreign EMS - Read		Incoming EMS - Deleted		Outgoing EMS		Outgoing EMS - Deleted	MMS Messages			Incoming Audio		Incoming Image		Incoming Video		Outgoing Audio		Outgoing Image		Outgoing Video
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Test Case CFT-IMO-08 BitPim 1.0.6-official															
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	Audio														
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Tue Jul 14 08:58:59 EDT 2009 Acquisition finished: Tue Jul 14 09:02:35 EDT 2009</p> <p>Complete representation of known data via generated reports was successful Complete representation of known data via preview-pane was successful Foreign character Address book entries were acquired but not properly displayed Foreign character text messages were acquired but not properly displayed</p>														
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-23 Comparison of known device data elements via generated reports.</td> <td>as expected</td> </tr> <tr> <td>A_IMO-24 Comparison of known device data elements via preview-pane.</td> <td>as expected</td> </tr> <tr> <td>A_IMO-37 Acquisition of address book entries containing foreign language characters.</td> <td>Not as expected</td> </tr> <tr> <td>A_IMO-38 Acquisition of outgoing text messages containing foreign language characters.</td> <td>Not as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IMO-23 Comparison of known device data elements via generated reports.	as expected	A_IMO-24 Comparison of known device data elements via preview-pane.	as expected	A_IMO-37 Acquisition of address book entries containing foreign language characters.	Not as expected	A_IMO-38 Acquisition of outgoing text messages containing foreign language characters.	Not as expected				
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Analysis:	Expected results NOT achieved														

5.2.17 CFT-IM-01 (LG VX6100)

Test Case CFT-IM-01 BitPim 1.0.6-official																																																																																			
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:	Tue Jul 14 13:28:17 EDT 2009																																																																																		
Device:	LG vx6100																																																																																		
Source Setup:	OS: WIN XP Interface: cable																																																																																		
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Log	Created By BitPim Version 1.0.6 - official																																																																																		

Test Case CFT-IM-01 BitPim 1.0.6-official					
Highlights:	<p>Acquisition started: Tue Jul 14 13:28:17 EDT 2009 Acquisition finished: Tue Jul 14 13:31:13 EDT 2009</p> <p>Device Connectivity was not established via supported interface</p> <p>Notes: 13:23:38.108 COM11: Opening port COM11, 115200 baud, timeout 3.000000, hardwareflow 0, softwareflow 0 13:23:38.233 COM11: Open of comm port succeeded 13:23:38.233 LG-VX6100: Attempting to contact phone 13:23:38.233 LG-VX6100: Listing subdirs in dir: '' 13:23:38.250 LG-VX6100: X recurse=0 13:23:41.265 COM11: Timed out - flushing and trying again 13:23:44.265 COM11: Timed out waiting for 7e, requested bytes 1 - 0 bytes read 13:23:47.280 COM11: Timed out - flushing and trying again 13:23:50.296 COM11: Timed out waiting for 7e, requested bytes 1 - 0 bytes read 13:23:50.342 COM11: Changed port speed to 38400 13:23:53.858 COM11: Timed out - flushing and trying again 13:23:56.875 COM11: Timed out waiting for 7e, requested bytes 1 - 0 bytes read 13:23:56.921 COM11: Changed port speed to 115200 13:24:00.437 COM11: Timed out - flushing and trying again 13:24:03.453 COM11: Timed out waiting for 7e, requested bytes 1 - 0 bytes read 13:24:06.467 LG-VX6100: No response to AT+GMM 13:24:09.483 LG-VX6100: No response to setting QCDMG mode 13:24:09.530 COM11: Changed port speed to 115200 13:24:13.046 LG-VX6100: No response to AT+GMM 13:24:16.062 LG-VX6100: No response to setting QCDMG mode 13:24:16.125 COM11: Changed port speed to 19200 13:24:19.640 LG-VX6100: No response to AT+GMM 13:24:22.640 LG-VX6100: No response to setting QCDMG mode 13:24:22.703 COM11: Changed port speed to 230400 13:24:26.217 LG-VX6100: No response to AT+GMM 13:24:29.233 LG-VX6100: No response to setting QCDMG mode 13:24:32.250 COM11: Timed out - flushing and trying again 13:24:35.250 COM11: Timed out waiting for 7e, requested bytes 1 - 0 bytes read 13:24:35.312 COM11: Changed port speed to 38400 13:24:38.828 COM11: Timed out - flushing and trying again 13:24:41.828 COM11: Timed out waiting for 7e, requested bytes 1 - 0 bytes read 13:24:41.890 COM11: Changed port speed to 115200 13:24:45.405 COM11: Timed out - flushing and trying again 13:24:48.421 COM11: Timed out waiting for 7e, requested bytes 1 - 0 bytes read 13:24:48.421 Failed to read filesystem 13:24:48.421 LG-VX6100: Listing files in dir: '' 13:24:51.437 COM11: Timed out - flushing and trying again 13:24:54.437 COM11: Timed out waiting for 7e, requested bytes 1 - 0 bytes read 13:24:57.453 COM11: Timed out - flushing and trying again</p>				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IM-01 Device connectivity via supported interfaces.</td> <td>Not as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IM-01 Device connectivity via supported interfaces.	Not as expected
Assertion & Expected Result	Actual Result				
A IM-01 Device connectivity via supported interfaces.	Not as expected				
Analysis:	Expected results NOT achieved				

5.2.18 CFT-IM-01 (Moto v710)

Test Case CFT-IM-01 BitPim 1.0.6-official																																																																																			
Case Summary:	CFT-IM-01 Acquire mobile device internal memory over supported interfaces (e.g., cable, Bluetooth, IrDA).																																																																																		
Assertions:	A IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).																																																																																		
Tester Name:	rpa																																																																																		
Test Host:	Morrisy																																																																																		
Test Date:	Wed Jul 15 10:07:28 EDT 2009																																																																																		
Device:	Motorola v710																																																																																		
Source Setup:	OS: WIN XP Interface: cable																																																																																		
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Log	Created By BitPim Version 1.0.6 - official																																																																																		

Test Case CFT-IM-01 BitPim 1.0.6-official					
Highlights:	Acquisition started: Wed Jul 15 10:07:28 EDT 2009 Acquisition finished: Wed Jul 15 10:08:57 EDT 2009 Device connectivity was established via supported interface				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IM-01 Device connectivity via supported interfaces.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IM-01 Device connectivity via supported interfaces.	as expected
Assertion & Expected Result	Actual Result				
A IM-01 Device connectivity via supported interfaces.	as expected				
Analysis:	Expected results achieved				

5.2.19 CFT-IM-02 (Moto v710)

Test Case CFT-IM-02 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IM-02 Attempt internal memory acquisition of a non-supported mobile device.																																																																																														
Assertions:	A IM-02 If a cellular forensic tool attempts to connect to a non-supported device then the tool shall have the ability to identify that the device is not supported.																																																																																														
Tester Name:	rpa																																																																																														
Test Host:	Morrisy																																																																																														
Test Date:	Wed Jul 15 10:09:26 EDT 2009																																																																																														
Device:	non supported device																																																																																														
Source Setup:	OS: WIN XP Interface: cable <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Address Book Entries</td> <td></td> </tr> <tr> <td></td> <td>Maximum Length</td> </tr> <tr> <td></td> <td>Regular Length, email, picture</td> </tr> <tr> <td></td> <td>Special Character</td> </tr> <tr> <td></td> <td>Blank Name</td> </tr> <tr> <td></td> <td>Regular Length, Deleted email - deleted picture</td> </tr> <tr> <td></td> <td>Deleted Entry</td> </tr> <tr> <td></td> <td>Foreign Entry</td> </tr> <tr> <td>PIM Data</td> <td></td> </tr> <tr> <td></td> <td>Maximum Length</td> </tr> <tr> <td></td> <td>Regular Length</td> </tr> <tr> <td></td> <td>Deleted Entry</td> </tr> <tr> <td></td> <td>Special Character</td> </tr> <tr> <td>Call Logs</td> <td></td> </tr> <tr> <td></td> <td>Missed</td> </tr> <tr> <td></td> <td>Missed - Deleted</td> </tr> <tr> <td></td> <td>Incoming</td> </tr> <tr> <td></td> <td>Incoming - Deleted</td> </tr> <tr> <td></td> <td>Outgoing</td> </tr> <tr> <td></td> <td>Outgoing - Deleted</td> </tr> <tr> <td>Text Messages</td> <td></td> </tr> <tr> <td></td> <td>Incoming SMS - Read</td> </tr> <tr> <td></td> <td>Incoming SMS - Unread</td> </tr> <tr> <td></td> <td>Incoming SMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing SMS</td> </tr> <tr> <td></td> <td>Outgoing SMS - Deleted</td> </tr> <tr> <td></td> <td>Incoming EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Unread</td> </tr> <tr> <td></td> <td>Incoming Foreign EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing EMS</td> </tr> <tr> <td></td> <td>Outgoing EMS - Deleted</td> </tr> <tr> <td>MMS Messages</td> <td></td> </tr> <tr> <td></td> <td>Incoming Audio</td> </tr> <tr> <td></td> <td>Incoming Image</td> </tr> <tr> <td></td> <td>Incoming Video</td> </tr> <tr> <td></td> <td>Outgoing Audio</td> </tr> <tr> <td></td> <td>Outgoing Image</td> </tr> <tr> <td></td> <td>Outgoing Video</td> </tr> <tr> <td>Stand-alone data files</td> <td></td> </tr> <tr> <td></td> <td>Audio</td> </tr> <tr> <td></td> <td>Audio - Deleted</td> </tr> <tr> <td></td> <td>Image</td> </tr> <tr> <td></td> <td>Image - Deleted</td> </tr> <tr> <td></td> <td>Video</td> </tr> <tr> <td></td> <td>Video - Deleted</td> </tr> </tbody> </table>	DATA OBJECTS	DATA ELEMENTS	Address Book Entries			Maximum Length		Regular Length, email, picture		Special Character		Blank Name		Regular Length, Deleted email - deleted picture		Deleted Entry		Foreign Entry	PIM Data			Maximum Length		Regular Length		Deleted Entry		Special Character	Call Logs			Missed		Missed - Deleted		Incoming		Incoming - Deleted		Outgoing		Outgoing - Deleted	Text Messages			Incoming SMS - Read		Incoming SMS - Unread		Incoming SMS - Deleted		Outgoing SMS		Outgoing SMS - Deleted		Incoming EMS - Read		Incoming EMS - Unread		Incoming Foreign EMS - Read		Incoming EMS - Deleted		Outgoing EMS		Outgoing EMS - Deleted	MMS Messages			Incoming Audio		Incoming Image		Incoming Video		Outgoing Audio		Outgoing Image		Outgoing Video	Stand-alone data files			Audio		Audio - Deleted		Image		Image - Deleted		Video		Video - Deleted
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Test Case CFT-IM-02 BitPim 1.0.6-official					
Highlights:	Acquisition started: Wed Jul 15 10:09:26 EDT 2009 Acquisition finished: Wed Jul 15 10:14:13 EDT 2009 Identification of non-supported devices was successful				
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Assertion & Expected Result	Actual Result				
A IM-02 Identification of non-supported devices.	as expected				
Analysis:	Expected results achieved				

5.2.20 CFT-IM-03 (Moto v710)

Test Case CFT-IM-03 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IM-03 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.																																																																																														
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-03 If a cellular forensic tool encounters disengagement between the device and application then the application shall notify the user that connectivity has been disrupted.																																																																																														
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Test Case CFT-IM-03 BitPim 1.0.6-official							
Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Wed Jul 15 10:14:32 EDT 2009 Acquisition finished: Wed Jul 15 10:21:10 EDT 2009</p> <p>Device connectivity was established via supported interface Device acquisition disruption notification was successful</p>						
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Assertion & Expected Result	Actual Result						
A IM-01 Device connectivity via supported interfaces.	as expected						
A IM-03 Notification of device acquisition disruption.	as expected						
Analysis:	Expected results achieved						

5.2.21 CFT-IM-04 (Moto v710)

Test Case CFT-IM-04 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IM-04 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.																																																																																														
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.																																																																																														
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Test Case CFT-IM-04 BitPim 1.0.6-official							
Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Wed Jul 15 10:24:26 EDT 2009 Acquisition finished: Wed Jul 15 10:28:55 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was successful</p>						
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IM-01 Device connectivity via supported interfaces.</td> <td>as expected</td> </tr> <tr> <td>A_IM-04 Readability and completeness of acquired data via supported reports.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IM-01 Device connectivity via supported interfaces.	as expected	A_IM-04 Readability and completeness of acquired data via supported reports.	as expected
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A_IM-04 Readability and completeness of acquired data via supported reports.	as expected						
Analysis:	Expected results achieved						

5.2.22 CFT-IM-05 (Moto v710)

Test Case CFT-IM-05 BitPim 1.0.6-official																																																																									
Case Summary:	CFT-IM-05 Acquire mobile device internal memory and review reported subscriber and equipment related information (i.e., MEID, MSISDN).																																																																								
Assertions:	<p>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.</p> <p>A_IM-05 If a cellular forensic tool successfully completes acquisition of the target device then subscriber related information shall be presented in a human-readable format without modification.</p> <p>A_IM-06 If a cellular forensic tool successfully completes acquisition of the target device then equipment related information shall be presented in a human-readable format without modification.</p>																																																																								
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Test Date:	Wed Jul 15 10:29:16 EDT 2009																																																																								
Device:	Motorola v710																																																																								
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Wed Jul 15 10:29:16 EDT 2009 Acquisition finished: Wed Jul 15 10:34:09 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was successful Subscriber and Equipment related data (i.e., MSISDN, MEID) were acquired</p>												
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Analysis:	Expected results achieved												

5.2.23 CFT-IM-06 (Moto v710)

Test Case CFT-IM-06 BitPim 1.0.6-official																									
Case Summary:	CFT-IM-06 Acquire mobile device internal memory and review reported PIM related data.																								
Assertions:	<p>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.</p> <p>A_IM-07 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries shall be presented in a human-readable format without modification.</p> <p>A_IM-08 If a cellular forensic tool successfully completes acquisition of the target device then all known maximum length address book entries shall be presented in a human-readable format without modification.</p> <p>A_IM-09 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing special characters shall be presented in a human-readable format without modification.</p> <p>A_IM-10 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing blank names shall be presented in a human-readable format without modification.</p> <p>A_IM-11 If a cellular forensic tool successfully completes acquisition of the target device then all known email addresses associated with address book entries shall be presented in a human-readable format without modification.</p> <p>A_IM-12 If a cellular forensic tool successfully completes acquisition of the target device then all known graphics associated with address book entries shall be presented in a human-readable format without modification.</p> <p>A_IM-13 If a cellular forensic tool successfully completes acquisition of the target device then all known datebook, calendar, note entries shall be presented in a human-readable format without modification.</p> <p>A_IM-14 If a cellular forensic tool successfully completes acquisition of the target device then all maximum length datebook, calendar, note entries shall be presented in a human readable format without modification.</p>																								
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Test Host:	Morrisy																								
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5.2.24 CFT-IM-08 (Moto v710)

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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Wed Jul 15 12:45:19 EDT 2009 Acquisition finished: Wed Jul 15 12:48:40 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was not successful Partial Text messages were acquired Text messages were encoded and are unreadable with out a 7-bit decoder.</p>								
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A_IM-04 Readability and completeness of acquired data via supported reports.	as expected								
A_IM-16 Acquisition of text messages.	NOT as expected								
Analysis:	Expected results NOT achieved								

5.2.25 CFT-IM-09 (Moto v710)

Test Case CFT-IM-09 BitPim 1.0.6-official																																																																													
Case Summary:	CFT-IM-09 Acquire mobile device internal memory and review reported MMS multi-media related data (i.e., text, audio, graphics, video).																																																																												
Assertions:	<p>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.</p> <p>A_IM-17 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated audio shall be presented properly without modification.</p> <p>A_IM-18 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated images shall be presented properly without modification.</p> <p>A_IM-19 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated video shall be presented properly without modification.</p>																																																																												
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Wed Jul 15 12:52:25 EDT 2009 Acquisition finished: Wed Jul 15 12:59:58 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was successful Audio MMS messages were acquired Image MMS messages were acquired Video MMS messages were not acquired - NA</p>																		
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Analysis:	Expected results achieved																		

5.2.26 CFT-IM-10 (Moto v710)

Test Case CFT-IM-10 BitPim 1.0.6-official																																																																							
Case Summary:	CFT-IM-10 Acquire mobile device internal memory and review reported stand-alone multi-media data (i.e., audio, graphics, video).																																																																						
Assertions:	<p>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.</p> <p>A_IM-20 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone audio files shall be playable via either an internal application or suggested third-party application without modification.</p> <p>A_IM-21 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone image files shall be viewable via either an internal application or suggested third-party application without modification.</p> <p>A_IM-22 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone video files shall be viewable via either an internal application or suggested third-party application without modification.</p>																																																																						
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Test Host:	Morrisy																																																																						
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Wed Jul 15 13:07:20 EDT 2009 Acquisition finished: Wed Jul 15 13:10:05 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was successful Audio files were acquired Image files were acquired Video files were not acquired - NA</p>																								
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Analysis:	Expected results achieved																								

5.2.27 CFT-IMO-01 (Moto v710)

Test Case CFT-IMO-01 BitPim 1.0.6-official																																																																																															
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Test Case CFT-IMO-01 BitPim 1.0.6-official					
Highlights:	Acquisition started: Wed Jul 15 13:11:07 EDT 2009 Acquisition finished: Wed Jul 15 13:25:20 EDT 2009 Complete representation of known data via generated reports was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-23 Comparison of known device data elements via generated reports.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IMO-23 Comparison of known device data elements via generated reports.	as expected
Assertion & Expected Result	Actual Result				
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Analysis:	Expected results achieved				

5.2.28 CFT-IMO-02 (Moto v710)

Test Case CFT-IMO-02 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IMO-02 Acquire mobile device internal memory and review reported data via the preview-pane.																																																																																														
Assertions:	A IMO-24 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																																																																																														
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Test Case CFT-IMO-02 BitPim 1.0.6-official					
Highlights:	Acquisition started: Wed Jul 15 13:25:53 EDT 2009 Acquisition finished: Wed Jul 15 13:27:56 EDT 2009 Complete representation of known data via preview-pane was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-24 Comparison of known device data elements via preview-pane.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IMO-24 Comparison of known device data elements via preview-pane.	as expected
Assertion & Expected Result	Actual Result				
A_IMO-24 Comparison of known device data elements via preview-pane.	as expected				
Analysis:	Expected results achieved				

5.2.29 CFT-IMO-03 (Moto v710)

Test Case CFT-IMO-03 BitPim 1.0.6-official																																																																																													
Case Summary:	CFT-IMO-03 Acquire mobile device internal memory and compare reported data via the preview-pane and supported generated reports.																																																																																												
Assertions:	<p>A_IMO-23 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.</p> <p>A_IMO-24 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.</p> <p>A_IMO-25 If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements.</p>																																																																																												
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Test Host:	Morrisy																																																																																												
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Wed Jul 15 13:28:19 EDT 2009 Acquisition finished: Wed Jul 15 13:35:34 EDT 2009</p> <p>Complete representation of known data via generated reports was successful Complete representation of known data via preview-pane was successful Consistency between generated reports and preview-pane was successful</p>								
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Analysis:	Expected results achieved								

5.2.30 CFT-IMO-05 (Moto v710)

Test Case CFT-IMO-05 BitPim 1.0.6-official																																																																																													
Case Summary:	CFT-IMO-05 Perform a physical acquisition and review data output for readability.																																																																																												
Assertions:	<p>A_IMO-23 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.</p> <p>A_IMO-24 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.</p> <p>A_IMO-27 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.</p>																																																																																												
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Test Case CFT-IMO-05 BitPim 1.0.6-official									
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Wed Jul 15 13:36:24 EDT 2009 Acquisition finished: Wed Jul 15 13:42:19 EDT 2009</p> <p>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</p>								
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Analysis:	Expected results achieved								

5.2.31 CFT-IMO-07 (Moto v710)

Test Case CFT-IMO-07 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IMO-07 Acquire mobile device internal memory and review generated log files.																																																																																														
Assertions:	A IMO-36 If the cellular forensic tool supports log creation then the application should present the log files outlining the acquisition process in a human-readable format.																																																																																														
Tester Name:	rpa																																																																																														
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Test Case CFT-IMO-07 BitPim 1.0.6-official					
Highlights:	Acquisition started: Wed Jul 15 13:51:31 EDT 2009 Acquisition finished: Wed Jul 15 13:55:36 EDT 2009 Creation of complete and human-readable log files was successful				
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Analysis:	Expected results achieved				

5.2.32 CFT-IMO-08 (Moto v710)

Test Case CFT-IMO-08 BitPim 1.0.6-official																																																																																	
Case Summary:	CFT-IMO-08 Acquire mobile device internal memory and review data containing foreign language characters.																																																																																
Assertions:	<p>A_IMO-23 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.</p> <p>A_IMO-24 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.</p> <p>A_IMO-37 If the cellular forensic tool supports proper display of foreign language character sets then the application should present address book entries containing foreign language characters in their native format without modification.</p> <p>A_IMO-38 If the cellular forensic tool supports proper display of foreign language character sets then the application should present text messages containing foreign language characters in their native format without modification.</p>																																																																																
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Wed Jul 15 13:56:02 EDT 2009 Acquisition finished: Wed Jul 15 14:05:26 EDT 2009</p> <p>Complete representation of known data via generated reports was successful Complete representation of known data via preview-pane was successful Foreign character Address book entries were acquired but not properly displayed Foreign character text messages were not acquired</p>														
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-23 Comparison of known device data elements via generated reports.</td> <td>as expected</td> </tr> <tr> <td>A_IMO-24 Comparison of known device data elements via preview-pane.</td> <td>as expected</td> </tr> <tr> <td>A_IMO-37 Acquisition of address book entries containing foreign language characters.</td> <td>partial</td> </tr> <tr> <td>A_IMO-38 Acquisition of outgoing text messages containing foreign language characters.</td> <td>NOT as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IMO-23 Comparison of known device data elements via generated reports.	as expected	A_IMO-24 Comparison of known device data elements via preview-pane.	as expected	A_IMO-37 Acquisition of address book entries containing foreign language characters.	partial	A_IMO-38 Acquisition of outgoing text messages containing foreign language characters.	NOT as expected				
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A_IMO-24 Comparison of known device data elements via preview-pane.	as expected														
A_IMO-37 Acquisition of address book entries containing foreign language characters.	partial														
A_IMO-38 Acquisition of outgoing text messages containing foreign language characters.	NOT as expected														
Analysis:	Expected results NOT achieved														

5.2.33 CFT-IM-01 (SCH-u740)

Test Case CFT-IM-01 BitPim 1.0.6-official																																																																																			
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).																																																																																		
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Test Host:	Morrisy																																																																																		
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Log	Created By BitPim Version 1.0.6 - official																																																																																		

Test Case CFT-IM-01 BitPim 1.0.6-official					
Highlights:	Acquisition started: Thu Jul 16 12:36:43 EDT 2009 Acquisition finished: Thu Jul 16 12:38:26 EDT 2009 Device connectivity was established via supported interface				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IM-01 Device connectivity via supported interfaces.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IM-01 Device connectivity via supported interfaces.	as expected
Assertion & Expected Result	Actual Result				
A IM-01 Device connectivity via supported interfaces.	as expected				
Analysis:	Expected results achieved				

5.2.34 CFT-IM-02 (SCH-u740)

Test Case CFT-IM-02 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IM-02 Attempt internal memory acquisition of a non-supported mobile device.																																																																																														
Assertions:	A IM-02 If a cellular forensic tool attempts to connect to a non-supported device then the tool shall have the ability to identify that the device is not supported.																																																																																														
Tester Name:	rpa																																																																																														
Test Host:	Morrisy																																																																																														
Test Date:	Thu Jul 16 12:41:14 EDT 2009																																																																																														
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Test Case CFT-IM-02 BitPim 1.0.6-official					
Highlights:	Acquisition started: Thu Jul 16 12:41:14 EDT 2009 Acquisition finished: Thu Jul 16 12:44:00 EDT 2009 Identification of non-supported devices was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IM-02 Identification of non-supported devices.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IM-02 Identification of non-supported devices.	as expected
Assertion & Expected Result	Actual Result				
A IM-02 Identification of non-supported devices.	as expected				
Analysis:	Expected results achieved				

5.2.35 CFT-IM-03 (SCH-u740)

Test Case CFT-IM-03 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IM-03 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.																																																																																														
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-03 If a cellular forensic tool encounters disengagement between the device and application then the application shall notify the user that connectivity has been disrupted.																																																																																														
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Test Case CFT-IM-03 BitPim 1.0.6-official							
Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Thu Jul 16 12:44:27 EDT 2009 Acquisition finished: Thu Jul 16 12:46:49 EDT 2009</p> <p>Device connectivity was established via supported interface Device acquisition disruption notification was successful</p>						
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IM-01 Device connectivity via supported interfaces.</td> <td>as expected</td> </tr> <tr> <td>A IM-03 Notification of device acquisition disruption.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IM-01 Device connectivity via supported interfaces.	as expected	A IM-03 Notification of device acquisition disruption.	as expected
Assertion & Expected Result	Actual Result						
A IM-01 Device connectivity via supported interfaces.	as expected						
A IM-03 Notification of device acquisition disruption.	as expected						
Analysis:	Expected results achieved						

5.2.36 CFT-IM-04 (SCH-u740)

Test Case CFT-IM-04 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IM-04 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.																																																																																														
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.																																																																																														
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Test Host:	Morrisy																																																																																														
Test Date:	Thu Jul 16 12:47:36 EDT 2009																																																																																														
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Source Setup:	OS: WIN XP Interface: cable																																																																																														
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Test Case CFT-IM-04 BitPim 1.0.6-official							
Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Thu Jul 16 12:47:36 EDT 2009 Acquisition finished: Thu Jul 16 12:55:39 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was successful</p>						
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Assertion & Expected Result	Actual Result						
A IM-01 Device connectivity via supported interfaces.	as expected						
A_IM-04 Readability and completeness of acquired data via supported reports.	as expected						
Analysis:	Expected results achieved						

5.2.37 CFT-IM-05 (SCH-u740)

Test Case CFT-IM-05 BitPim 1.0.6-official																																																																									
Case Summary:	CFT-IM-05 Acquire mobile device internal memory and review reported subscriber and equipment related information (i.e., MEID, MSISDN).																																																																								
Assertions:	<p>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.</p> <p>A_IM-05 If a cellular forensic tool successfully completes acquisition of the target device then subscriber related information shall be presented in a human-readable format without modification.</p> <p>A_IM-06 If a cellular forensic tool successfully completes acquisition of the target device then equipment related information shall be presented in a human-readable format without modification.</p>																																																																								
Tester Name:	rpa																																																																								
Test Host:	Morrisy																																																																								
Test Date:	Thu Jul 16 12:56:10 EDT 2009																																																																								
Device:	Samsung SCHu740																																																																								
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Test Case CFT-IM-05 BitPim 1.0.6-official													
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Thu Jul 16 12:56:10 EDT 2009 Acquisition finished: Thu Jul 16 12:58:53 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was successful MSISDN was not acquired - NA</p>												
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A IM-06 Acquisition of MEID.	as expected												
Analysis:	Expected results achieved												

5.2.38 CFT-IM-06 (SCH-u740)

Test Case CFT-IM-06 BitPim 1.0.6-official																									
Case Summary:	CFT-IM-06 Acquire mobile device internal memory and review reported PIM related data.																								
Assertions:	<p>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.</p> <p>A_IM-07 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries shall be presented in a human-readable format without modification.</p> <p>A_IM-08 If a cellular forensic tool successfully completes acquisition of the target device then all known maximum length address book entries shall be presented in a human-readable format without modification.</p> <p>A_IM-09 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing special characters shall be presented in a human-readable format without modification.</p> <p>A_IM-10 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing blank names shall be presented in a human-readable format without modification.</p> <p>A_IM-11 If a cellular forensic tool successfully completes acquisition of the target device then all known email addresses associated with address book entries shall be presented in a human-readable format without modification.</p> <p>A_IM-12 If a cellular forensic tool successfully completes acquisition of the target device then all known graphics associated with address book entries shall be presented in a human-readable format without modification.</p> <p>A_IM-13 If a cellular forensic tool successfully completes acquisition of the target device then all known datebook, calendar, note entries shall be presented in a human-readable format without modification.</p> <p>A_IM-14 If a cellular forensic tool successfully completes acquisition of the target device then all maximum length datebook, calendar, note entries shall be presented in a human readable format without modification.</p>																								
Tester Name:	rpa																								
Test Host:	Morrisy																								
Test Date:	Thu Jul 16 13:03:08 EDT 2009																								
Device:	Samsung SCHu740																								
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Thu Jul 16 13:03:08 EDT 2009 Acquisition finished: Thu Jul 16 13:06:57 EDT 2009</p> <p>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</p>																																																		
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5.2.39 CFT-IM-07 (SCH-u740)

Test Case CFT-IM-07 BitPim 1.0.6-official																																																																																									
Case Summary:	CFT-IM-07 Acquire mobile device internal memory and review reported call logs.																																																																																								
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Analysis:	Expected results achieved								

5.2.40 CFT-IM-08 (SCH-u740)

Test Case CFT-IM-08 BitPim 1.0.6-official																																																																																									
Case Summary:	CFT-IM-08 Acquire mobile device internal memory and review reported text messages.																																																																																								
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5.2.41 CFT-IM-09 (SCH-u740)

Test Case CFT-IM-09 BitPim 1.0.6-official																																																																													
Case Summary:	CFT-IM-09 Acquire mobile device internal memory and review reported MMS multi-media related data (i.e., text, audio, graphics, video).																																																																												
Assertions:	<p>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.</p> <p>A_IM-17 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated audio shall be presented properly without modification.</p> <p>A_IM-18 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated images shall be presented properly without modification.</p> <p>A_IM-19 If a cellular forensic tool successfully completes acquisition of the target device then all MMS messages and associated video shall be presented properly without modification.</p>																																																																												
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Thu Jul 16 13:27:17 EDT 2009 Acquisition finished: Thu Jul 16 13:29:33 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was successful ALL MMS messages (Audio, Image, Video) were acquired</p>																		
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Analysis:	Expected results achieved																		

5.2.42 CFT-IM-10 (SCH-u740)

Test Case CFT-IM-10 BitPim 1.0.6-official																																																																							
Case Summary:	CFT-IM-10 Acquire mobile device internal memory and review reported stand-alone multi-media data (i.e., audio, graphics, video).																																																																						
Assertions:	<p>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.</p> <p>A_IM-20 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone audio files shall be playable via either an internal application or suggested third-party application without modification.</p> <p>A_IM-21 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone image files shall be viewable via either an internal application or suggested third-party application without modification.</p> <p>A_IM-22 If a cellular forensic tool successfully completes acquisition of the target device then all stand-alone video files shall be viewable via either an internal application or suggested third-party application without modification.</p>																																																																						
Tester Name:	rpa																																																																						
Test Host:	Morrisy																																																																						
Test Date:	Thu Jul 16 13:38:19 EDT 2009																																																																						
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Thu Jul 16 13:38:19 EDT 2009 Acquisition finished: Thu Jul 16 13:40:46 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was successful ALL stand-alone data files (Audio, Image, Video) were acquired</p>																								
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Analysis:	Expected results achieved																								

5.2.43 CFT-IMO-01 (SCH-u740)

Test Case CFT-IMO-01 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IMO-01 Acquire mobile device internal memory and review reported data via supported generated report formats.																																																																																														
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Test Case CFT-IMO-01 BitPim 1.0.6-official					
Highlights:	Acquisition started: Thu Jul 16 13:41:11 EDT 2009 Acquisition finished: Thu Jul 16 13:52:03 EDT 2009 Complete representation of known data via generated reports was successful				
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Analysis:	Expected results achieved				

5.2.44 CFT-IMO-02 (SCH-u740)

Test Case CFT-IMO-02 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IMO-02 Acquire mobile device internal memory and review reported data via the preview-pane.																																																																																														
Assertions:	A IMO-24 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.																																																																																														
Tester Name:	rpa																																																																																														
Test Host:	Morrisy																																																																																														
Test Date:	Thu Jul 16 13:52:27 EDT 2009																																																																																														
Device:	Samsung SCHu740																																																																																														
Source Setup:	OS: WIN XP Interface: cable																																																																																														
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Test Case CFT-IMO-02 BitPim 1.0.6-official					
Highlights:	Acquisition started: Thu Jul 16 13:52:27 EDT 2009 Acquisition finished: Thu Jul 16 13:57:47 EDT 2009 Complete representation of known data via preview-pane was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-24 Comparison of known device data elements via preview-pane.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IMO-24 Comparison of known device data elements via preview-pane.	as expected
Assertion & Expected Result	Actual Result				
A_IMO-24 Comparison of known device data elements via preview-pane.	as expected				
Analysis:	Expected results achieved				

5.2.45 CFT-IMO-03 (SCH-u740)

Test Case CFT-IMO-03 BitPim 1.0.6-official																																																																																													
Case Summary:	CFT-IMO-03 Acquire mobile device internal memory and compare reported data via the preview-pane and supported generated reports.																																																																																												
Assertions:	<p>A_IMO-23 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.</p> <p>A_IMO-24 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.</p> <p>A_IMO-25 If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements.</p>																																																																																												
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Test Host:	Morrisy																																																																																												
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Test Case CFT-IMO-03 BitPim 1.0.6-official									
	Video - Deleted								
Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Thu Jul 16 13:58:11 EDT 2009 Acquisition finished: Thu Jul 16 14:01:25 EDT 2009</p> <p>Complete representation of known data via generated reports was successful Complete representation of known data via preview-pane was successful Consistency between generated reports and preview-pane was successful</p>								
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Analysis:	Expected results achieved								

5.2.46 CFT-IMO-05 (SCH-u740)

Test Case CFT-IMO-05 BitPim 1.0.6-official																																																																																													
Case Summary:	CFT-IMO-05 Perform a physical acquisition and review data output for readability.																																																																																												
Assertions:	<p>A_IMO-23 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.</p> <p>A_IMO-24 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.</p> <p>A_IMO-27 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.</p>																																																																																												
Tester Name:	rpa																																																																																												
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	Video - Deleted								
Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Thu Jul 16 14:01:54 EDT 2009 Acquisition finished: Thu Jul 16 14:04:01 EDT 2009</p> <p>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</p>								
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-23 Comparison of known device data elements via generated reports.</td> <td>as expected</td> </tr> <tr> <td>A_IMO-24 Comparison of known device data elements via preview-pane.</td> <td>as expected</td> </tr> <tr> <td>A_IMO-27 Readability and completeness of data acquired via a physical acquisition.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IMO-23 Comparison of known device data elements via generated reports.	as expected	A_IMO-24 Comparison of known device data elements via preview-pane.	as expected	A_IMO-27 Readability and completeness of data acquired via a physical acquisition.	as expected
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A_IMO-24 Comparison of known device data elements via preview-pane.	as expected								
A_IMO-27 Readability and completeness of data acquired via a physical acquisition.	as expected								
Analysis:	Expected results achieved								

5.2.47 CFT-IMO-07 (SCH-u740)

Test Case CFT-IMO-07 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IMO-07 Acquire mobile device internal memory and review generated log files.																																																																																														
Assertions:	A IMO-36 If the cellular forensic tool supports log creation then the application should present the log files outlining the acquisition process in a human-readable format.																																																																																														
Tester Name:	rpa																																																																																														
Test Host:	Morrisy																																																																																														
Test Date:	Wed Jul 16 14:10:31 EDT 2009																																																																																														
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Log	Created By BitPim Version 1.0.6 - official																																																																																														

Test Case CFT-IMO-07 BitPim 1.0.6-official					
Highlights:	Acquisition started: Wed Jul 16 14:10:31 EDT 2009 Acquisition finished: Wed Jul 16 14:15:36 EDT 2009 Creation of complete and human-readable log files was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IMO-36 Device Log file output.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IMO-36 Device Log file output.	as expected
Assertion & Expected Result	Actual Result				
A IMO-36 Device Log file output.	as expected				
Analysis:	Expected results achieved				

5.2.48 CFT-IMO-08 (SCH-u740)

Test Case CFT-IMO-08 BitPim 1.0.6-official																																																							
Case Summary:	CFT-IMO-08 Acquire mobile device internal memory and review data containing foreign language characters.																																																						
Assertions:	<p>A_IMO-23 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.</p> <p>A_IMO-24 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.</p> <p>A_IMO-37 If the cellular forensic tool supports proper display of foreign language character sets then the application should present address book entries containing foreign language characters in their native format without modification.</p> <p>A_IMO-38 If the cellular forensic tool supports proper display of foreign language character sets then the application should present text messages containing foreign language characters in their native format without modification.</p>																																																						
Tester Name:	rpa																																																						
Test Host:	Morrisy																																																						
Test Date:	Thu Jul 16 14:12:16 EDT 2009																																																						
Device:	Samsung SCHu740																																																						
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	Video - Deleted																																								
Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Thu Jul 16 14:12:16 EDT 2009 Acquisition finished: Thu Jul 16 15:09:48 EDT 2009</p> <p>Complete representation of known data via generated reports was successful Complete representation of known data via preview-pane was successful Foreign character Address book entries were acquired but not properly displayed Foreign character text messages were acquired but not properly displayed</p>																																								
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Analysis:	Expected results NOT achieved																																								

5.2.49 CFT-IM-01 (SPH-a660)

Test Case CFT-IM-01 BitPim 1.0.6-official																																																																																			
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:	Fri Jul 17 08:59:44 EDT 2009																																																																																		
Device:	Samsung SPHa660																																																																																		
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Test Case CFT-IM-01 BitPim 1.0.6-official					
Highlights:	Acquisition started: Fri Jul 17 08:59:44 EDT 2009 Acquisition finished: Fri Jul 17 09:02:28 EDT 2009 Device connectivity was established via supported interface				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IM-01 Device connectivity via supported interfaces.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IM-01 Device connectivity via supported interfaces.	as expected
Assertion & Expected Result	Actual Result				
A IM-01 Device connectivity via supported interfaces.	as expected				
Analysis:	Expected results achieved				

5.2.50 CFT-IM-02 (SPH-a660)

Test Case CFT-IM-02 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IM-02 Attempt internal memory acquisition of a non-supported mobile device.																																																																																														
Assertions:	A IM-02 If a cellular forensic tool attempts to connect to a non-supported device then the tool shall have the ability to identify that the device is not supported.																																																																																														
Tester Name:	rpa																																																																																														
Test Host:	Morrisy																																																																																														
Test Date:	Fri Jul 17 09:02:52 EDT 2009																																																																																														
Device:	non supported device																																																																																														
Source Setup:	<p>OS: WIN XP Interface: cable</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Address Book Entries</td> <td></td> </tr> <tr> <td></td> <td>Maximum Length</td> </tr> <tr> <td></td> <td>Regular Length, email, picture</td> </tr> <tr> <td></td> <td>Special Character</td> </tr> <tr> <td></td> <td>Blank Name</td> </tr> <tr> <td></td> <td>Regular Length, Deleted email - deleted picture</td> </tr> <tr> <td></td> <td>Deleted Entry</td> </tr> <tr> <td></td> <td>Foreign Entry</td> </tr> <tr> <td>PIM Data</td> <td></td> </tr> <tr> <td></td> <td>Maximum Length</td> </tr> <tr> <td></td> <td>Regular Length</td> </tr> <tr> <td></td> <td>Deleted Entry</td> </tr> <tr> <td></td> <td>Special Character</td> </tr> <tr> <td>Call Logs</td> <td></td> </tr> <tr> <td></td> <td>Missed</td> </tr> <tr> <td></td> <td>Missed - Deleted</td> </tr> <tr> <td></td> <td>Incoming</td> </tr> <tr> <td></td> <td>Incoming - Deleted</td> </tr> <tr> <td></td> <td>Outgoing</td> </tr> <tr> <td></td> <td>Outgoing - Deleted</td> </tr> <tr> <td>Text Messages</td> <td></td> </tr> <tr> <td></td> <td>Incoming SMS - Read</td> </tr> <tr> <td></td> <td>Incoming SMS - Unread</td> </tr> <tr> <td></td> <td>Incoming SMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing SMS</td> </tr> <tr> <td></td> <td>Outgoing SMS - Deleted</td> </tr> <tr> <td></td> <td>Incoming EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Unread</td> </tr> <tr> <td></td> <td>Incoming Foreign EMS - Read</td> </tr> <tr> <td></td> <td>Incoming EMS - Deleted</td> </tr> <tr> <td></td> <td>Outgoing EMS</td> </tr> <tr> <td></td> <td>Outgoing EMS - Deleted</td> </tr> <tr> <td>MMS Messages</td> <td></td> </tr> <tr> <td></td> <td>Incoming Audio</td> </tr> <tr> <td></td> <td>Incoming Image</td> </tr> <tr> <td></td> <td>Incoming Video</td> </tr> <tr> <td></td> <td>Outgoing Audio</td> </tr> <tr> <td></td> <td>Outgoing Image</td> </tr> <tr> <td></td> <td>Outgoing Video</td> </tr> <tr> <td>Stand-alone data files</td> <td></td> </tr> <tr> <td></td> <td>Audio</td> </tr> <tr> <td></td> <td>Audio - Deleted</td> </tr> <tr> <td></td> <td>Image</td> </tr> <tr> <td></td> <td>Image - Deleted</td> </tr> <tr> <td></td> <td>Video</td> </tr> <tr> <td></td> <td>Video - Deleted</td> </tr> </tbody> </table>	DATA OBJECTS	DATA ELEMENTS	Address Book Entries			Maximum Length		Regular Length, email, picture		Special Character		Blank Name		Regular Length, Deleted email - deleted picture		Deleted Entry		Foreign Entry	PIM Data			Maximum Length		Regular Length		Deleted Entry		Special Character	Call Logs			Missed		Missed - Deleted		Incoming		Incoming - Deleted		Outgoing		Outgoing - Deleted	Text Messages			Incoming SMS - Read		Incoming SMS - Unread		Incoming SMS - Deleted		Outgoing SMS		Outgoing SMS - Deleted		Incoming EMS - Read		Incoming EMS - Unread		Incoming Foreign EMS - Read		Incoming EMS - Deleted		Outgoing EMS		Outgoing EMS - Deleted	MMS Messages			Incoming Audio		Incoming Image		Incoming Video		Outgoing Audio		Outgoing Image		Outgoing Video	Stand-alone data files			Audio		Audio - Deleted		Image		Image - Deleted		Video		Video - Deleted
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Test Case CFT-IM-02 BitPim 1.0.6-official					
Highlights:	Acquisition started: Fri Jul 17 09:02:52 EDT 2009 Acquisition finished: Fri Jul 17 09:04:30 EDT 2009 Identification of non-supported devices was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IM-02 Identification of non-supported devices.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IM-02 Identification of non-supported devices.	as expected
Assertion & Expected Result	Actual Result				
A IM-02 Identification of non-supported devices.	as expected				
Analysis:	Expected results achieved				

5.2.51 CFT-IM-03 (SPH-a660)

Test Case CFT-IM-03 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IM-03 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.																																																																																														
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-03 If a cellular forensic tool encounters disengagement between the device and application then the application shall notify the user that connectivity has been disrupted.																																																																																														
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Test Host:	Morrisy																																																																																														
Test Date:	Fri Jul 17 09:04:53 EDT 2009																																																																																														
Device:	Samsung SPHa660																																																																																														
Source Setup:	OS: WIN XP Interface: cable																																																																																														
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Test Case CFT-IM-03 BitPim 1.0.6-official							
Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Fri Jul 17 09:04:53 EDT 2009 Acquisition finished: Fri Jul 17 09:09:24 EDT 2009</p> <p>Device connectivity was established via supported interface Device acquisition disruption notification was successful</p>						
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IM-01 Device connectivity via supported interfaces.</td> <td>as expected</td> </tr> <tr> <td>A IM-03 Notification of device acquisition disruption.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IM-01 Device connectivity via supported interfaces.	as expected	A IM-03 Notification of device acquisition disruption.	as expected
Assertion & Expected Result	Actual Result						
A IM-01 Device connectivity via supported interfaces.	as expected						
A IM-03 Notification of device acquisition disruption.	as expected						
Analysis:	Expected results achieved						

5.2.52 CFT-IM-04 (SPH-a660)

Test Case CFT-IM-04 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IM-04 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.																																																																																														
Assertions:	A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.																																																																																														
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Test Host:	Morrisy																																																																																														
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Test Case CFT-IM-04 BitPim 1.0.6-official							
Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Fri Jul 17 09:11:12 EDT 2009 Acquisition finished: Fri Jul 17 09:19:36 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was successful</p>						
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IM-01 Device connectivity via supported interfaces.</td> <td>as expected</td> </tr> <tr> <td>A_IM-04 Readability and completeness of acquired data via supported reports.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IM-01 Device connectivity via supported interfaces.	as expected	A_IM-04 Readability and completeness of acquired data via supported reports.	as expected
Assertion & Expected Result	Actual Result						
A IM-01 Device connectivity via supported interfaces.	as expected						
A_IM-04 Readability and completeness of acquired data via supported reports.	as expected						
Analysis:	Expected results achieved						

5.2.53 CFT-IM-05 (SPH-a660)

Test Case CFT-IM-05 BitPim 1.0.6-official																																																																									
Case Summary:	CFT-IM-05 Acquire mobile device internal memory and review reported subscriber and equipment related information (i.e., MEID, MSISDN).																																																																								
Assertions:	<p>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.</p> <p>A_IM-05 If a cellular forensic tool successfully completes acquisition of the target device then subscriber related information shall be presented in a human-readable format without modification.</p> <p>A_IM-06 If a cellular forensic tool successfully completes acquisition of the target device then equipment related information shall be presented in a human-readable format without modification.</p>																																																																								
Tester Name:	rpa																																																																								
Test Host:	Morrisy																																																																								
Test Date:	Fri Jul 17 09:27:18 EDT 2009																																																																								
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	Video												
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Fri Jul 17 09:27:18 EDT 2009 Acquisition finished: Fri Jul 17 09:34:53 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was successful MSISDN was not acquired - NA</p>												
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Analysis:	Expected results achieved												

5.2.54 CFT-IM-06 (SPH-a660)

Test Case CFT-IM-06 BitPim 1.0.6-official																									
Case Summary:	CFT-IM-06 Acquire mobile device internal memory and review reported PIM related data.																								
Assertions:	<p>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.</p> <p>A_IM-07 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries shall be presented in a human-readable format without modification.</p> <p>A_IM-08 If a cellular forensic tool successfully completes acquisition of the target device then all known maximum length address book entries shall be presented in a human-readable format without modification.</p> <p>A_IM-09 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing special characters shall be presented in a human-readable format without modification.</p> <p>A_IM-10 If a cellular forensic tool successfully completes acquisition of the target device then all known address book entries containing blank names shall be presented in a human-readable format without modification.</p> <p>A_IM-11 If a cellular forensic tool successfully completes acquisition of the target device then all known email addresses associated with address book entries shall be presented in a human-readable format without modification.</p> <p>A_IM-12 If a cellular forensic tool successfully completes acquisition of the target device then all known graphics associated with address book entries shall be presented in a human-readable format without modification.</p> <p>A_IM-13 If a cellular forensic tool successfully completes acquisition of the target device then all known datebook, calendar, note entries shall be presented in a human-readable format without modification.</p> <p>A_IM-14 If a cellular forensic tool successfully completes acquisition of the target device then all maximum length datebook, calendar, note entries shall be presented in a human readable format without modification.</p>																								
Tester Name:	rpa																								
Test Host:	Morrisy																								
Test Date:	Fri Jul 17 09:48:14 EDT 2009																								
Device:	Samsung SPHa660																								
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5.2.55 CFT-IM-08 (SPH-a660)

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Case Summary:	CFT-IM-08 Acquire mobile device internal memory and review reported text messages.																																																																																								
Assertions:	<p>A_IM-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>A_IM-04 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall have the ability to present acquired data elements in a human-readable format via either a preview-pane or generated report.</p> <p>A_IM-16 If a cellular forensic tool successfully completes acquisition of the target device then all text messages (i.e., SMS, EMS) messages shall be presented in a human-readable format without modification.</p>																																																																																								
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Fri Jul 17 10:01:11 EDT 2009 Acquisition finished: Fri Jul 17 10:06:02 EDT 2009</p> <p>Device connectivity was established via supported interface Readability and completeness of acquired data was successful ALL text messages (SMS, EMS) were acquired</p>								
Results:	<table border="1"> <thead> <tr> <th>Assertion & 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>	Assertion & Expected Result	Actual Result	A IM-01 Device connectivity via supported interfaces.	as expected	A IM-04 Readability and completeness of acquired data via supported reports.	as expected	A IM-16 Acquisition of text messages.	as expected
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A IM-16 Acquisition of text messages.	as expected								
Analysis:	Expected results achieved								

5.2.56 CFT-IMO-01 (SPH-a660)

Test Case CFT-IMO-01 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IMO-01 Acquire mobile device internal memory and review reported data via supported generated report formats.																																																																																														
Assertions:	A IMO-23 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.																																																																																														
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Test Case CFT-IMO-01 BitPim 1.0.6-official					
Highlights:	Acquisition started: Fri Jul 17 10:09:18 EDT 2009 Acquisition finished: Fri Jul 17 10:14:37 EDT 2009 Complete representation of known data via generated reports was successful				
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A_IMO-23 Comparison of known device data elements via generated reports.	as expected				
Analysis:	Expected results achieved				

5.2.57 CFT-IMO-02 (SPH-a660)

Test Case CFT-IMO-02 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IMO-02 Acquire mobile device internal memory and review reported data via the preview-pane.																																																																																														
Assertions:	A IMO-24 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.																																																																																														
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Test Case CFT-IMO-02 BitPim 1.0.6-official					
Highlights:	Acquisition started: Fri Jul 17 10:14:57 EDT 2009 Acquisition finished: Fri Jul 17 10:16:13 EDT 2009 Complete representation of known data via preview-pane was successful				
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Assertion & Expected Result	Actual Result				
A_IMO-24 Comparison of known device data elements via preview-pane.	as expected				
Analysis:	Expected results achieved				

5.2.58 CFT-IMO-03 (SPH-a660)

Test Case CFT-IMO-03 BitPim 1.0.6-official																																																																																													
Case Summary:	CFT-IMO-03 Acquire mobile device internal memory and compare reported data via the preview-pane and supported generated reports.																																																																																												
Assertions:	<p>A_IMO-23 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.</p> <p>A_IMO-24 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.</p> <p>A_IMO-25 If a cellular forensic tool provides a preview-pane view and a generated report of the acquired data then the reports shall maintain consistency of all reported data elements.</p>																																																																																												
Tester Name:	rpa																																																																																												
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Test Case CFT-IMO-03 BitPim 1.0.6-official									
	Video - Deleted								
Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Fri Jul 17 10:16:32 EDT 2009 Acquisition finished: Fri Jul 17 10:29:20 EDT 2009</p> <p>Complete representation of known data via generated reports was successful Complete representation of known data via preview-pane was successful Consistency between generated reports and preview-pane was successful</p>								
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A_IMO-23 Comparison of known device data elements via generated reports.</td> <td>as expected</td> </tr> <tr> <td>A_IMO-24 Comparison of known device data elements via preview-pane.</td> <td>as expected</td> </tr> <tr> <td>A_IMO-25 Compare generated reports and preview-pane views for device acquisition.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A_IMO-23 Comparison of known device data elements via generated reports.	as expected	A_IMO-24 Comparison of known device data elements via preview-pane.	as expected	A_IMO-25 Compare generated reports and preview-pane views for device acquisition.	as expected
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A_IMO-24 Comparison of known device data elements via preview-pane.	as expected								
A_IMO-25 Compare generated reports and preview-pane views for device acquisition.	as expected								
Analysis:	Expected results achieved								

5.2.59 CFT-IMO-05 (SPH-a660)

Test Case CFT-IMO-05 BitPim 1.0.6-official																																																																																													
Case Summary:	CFT-IMO-05 Perform a physical acquisition and review data output for readability.																																																																																												
Assertions:	<p>A_IMO-23 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.</p> <p>A_IMO-24 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.</p> <p>A_IMO-27 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.</p>																																																																																												
Tester Name:	rpa																																																																																												
Test Host:	Morrisy																																																																																												
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Test Case CFT-IMO-05 BitPim 1.0.6-official									
	Video - Deleted								
Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Fri Jul 17 10:30:04 EDT 2009 Acquisition finished: Fri Jul 17 10:33:42 EDT 2009</p> <p>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</p>								
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Analysis:	Expected results achieved								

5.2.60 CFT-IMO-06 (SPH-a660)

Test Case CFT-IMO-06 BitPim 1.0.6-official																																			
Case Summary:	CFT-IMO-06 Perform a physical acquisition and review reports for recoverable deleted data.																																		
Assertions:	<p>A_IMO-23 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.</p> <p>A_IMO-24 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.</p> <p>A_IMO-28 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.</p> <p>A_IMO-29 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.</p> <p>A_IMO-30 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.</p> <p>A_IMO-31 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.</p> <p>A_IMO-32 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.</p> <p>A_IMO-33 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.</p> <p>A_IMO-34 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.</p> <p>A_IMO-35 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.</p>																																		
Tester Name:	rpa																																		
Test Host:	Morrisy																																		
Test Date:	Fri Jul 17 10:35:00 EDT 2009																																		
Device:	Samsung SPHa660																																		
Source Setup:	<p>OS: WIN XP Interface: cable</p> <table border="1"> <thead> <tr> <th>DATA OBJECTS</th> <th>DATA ELEMENTS</th> </tr> </thead> <tbody> <tr> <td>Address Book Entries</td> <td></td> </tr> <tr> <td></td> <td>Maximum Length</td> </tr> <tr> <td></td> <td>Regular Length, email, picture</td> </tr> <tr> <td></td> <td>Special Character</td> </tr> <tr> <td></td> <td>Blank Name</td> </tr> <tr> <td></td> <td>Regular Length, Deleted email - deleted picture</td> </tr> <tr> <td></td> <td>Deleted Entry</td> </tr> <tr> <td></td> <td>Foreign Entry</td> </tr> <tr> <td>PIM Data</td> <td></td> </tr> <tr> <td></td> <td>Maximum Length</td> </tr> <tr> <td></td> <td>Regular Length</td> </tr> <tr> <td></td> <td>Deleted Entry</td> </tr> <tr> <td></td> <td>Special Character</td> </tr> <tr> <td>Call Logs</td> <td></td> </tr> <tr> <td></td> <td>Missed</td> </tr> <tr> <td></td> <td>Missed - Deleted</td> </tr> </tbody> </table>	DATA OBJECTS	DATA ELEMENTS	Address Book Entries			Maximum Length		Regular Length, email, picture		Special Character		Blank Name		Regular Length, Deleted email - deleted picture		Deleted Entry		Foreign Entry	PIM Data			Maximum Length		Regular Length		Deleted Entry		Special Character	Call Logs			Missed		Missed - Deleted
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Test Case CFT-IMO-06 BitPim 1.0.6-official																																																													
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Fri Jul 17 10:35:00 EDT 2009 Acquisition finished: Fri Jul 17 10:39:57 EDT 2009</p> <p>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 address book entries were not recovered Deleted PIM data was not recovered Deleted Call log data was recovered Deleted Call log data was not recovered Deleted text message data was recovered Deleted audio data was not recovered Deleted graphic data was not recovered Deleted video data was not recovered</p>																																																												
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Test Case CFT-IMO-06 BitPim 1.0.6-official		
	A_IMO-33 Physical acquisition, recovery of deleted stand-alone audio files.	as expected
	A_IMO-34 Physical acquisition, recovery of deleted graphic files.	as expected
	A_IMO-35 Physical acquisition, recovery of deleted video files.	as expected
Analysis:	Expected results achieved	

5.2.61 CFT-IMO-07 (SPH-a660)

Test Case CFT-IMO-07 BitPim 1.0.6-official																																																																																															
Case Summary:	CFT-IMO-07 Acquire mobile device internal memory and review generated log files.																																																																																														
Assertions:	A IMO-36 If the cellular forensic tool supports log creation then the application should present the log files outlining the acquisition process in a human-readable format.																																																																																														
Tester Name:	rpa																																																																																														
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Test Case CFT-IMO-07 BitPim 1.0.6-official					
Highlights:	Acquisition started: Fri Jul 17 10:41:48 EDT 2009 Acquisition finished: Fri Jul 17 10:50:01 EDT 2009 Creation of complete and human-readable log files was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>A IMO-36 Device Log file output.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	A IMO-36 Device Log file output.	as expected
Assertion & Expected Result	Actual Result				
A IMO-36 Device Log file output.	as expected				
Analysis:	Expected results achieved				

5.2.62 CFT-IMO-08 (SPH-a660)

Test Case CFT-IMO-08 BitPim 1.0.6-official																																																																																	
Case Summary:	CFT-IMO-08 Acquire mobile device internal memory and review data containing foreign language characters.																																																																																
Assertions:	<p>A_IMO-23 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification via supported generated report formats.</p> <p>A_IMO-24 If a cellular forensic tool successfully completes acquisition of the target device then the tool shall present the acquired data without modification in a preview-pane view.</p> <p>A_IMO-37 If the cellular forensic tool supports proper display of foreign language character sets then the application should present address book entries containing foreign language characters in their native format without modification.</p> <p>A_IMO-38 If the cellular forensic tool supports proper display of foreign language character sets then the application should present text messages containing foreign language characters in their native format without modification.</p>																																																																																
Tester Name:	rpa																																																																																
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Log Highlights:	<p>Created By BitPim Version 1.0.6 - official Acquisition started: Fri Jul 17 10:50:28 EDT 2009 Acquisition finished: Fri Jul 17 10:52:03 EDT 2009</p> <p>Complete representation of known data via generated reports was successful Complete representation of known data via preview-pane was successful Foreign character Address book entries were acquired and properly displayed Foreign character text messages were acquired but not properly displayed</p>														
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Analysis:	Partial 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.

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

<http://www.ojp.usdoj.gov/nij>

or contact:

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Reference Service
P.O. Box 6000
Rockville, MD 20849-6000
800-851-3420
<http://www.ncjrs.gov>