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	Test Results for Mobile Device Acquisition Tool: Lantern v2.3
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Test Results for Mobile Device Acquisition Tool: Lantern v2.3



Contents

Introduction	1
How to Read This Report	1
1 Results Summary	
2 Test Case Selection	
3 Results by Test Assertion	
3.1 Acquisition attempt of nonsupported devices	
3.2 Acquisition of subscriber- and equipment- related information	
3.3 Acquisition of Personal Information Management (PIM) data	
3.4 Acquisition of Internet related data	
4 Testing Environment	
4.1 Test computers	
4.2 Mobile devices	
4.3 Internal Memory Data Objects	
5 Test Results	
5.1 Test results report key	
5.2 Test details	
5.2.1 SPT-01 (iPhone4 GSM)	
5.2.2 SPT-02 (iPhone4 GSM)	
5.2.3 SPT-03 (iPhone4 GSM)	
5.2.4 SPT-04 (iPhone4 GSM)	
5.2.5 SPT-05 (iPhone4 GSM)	
5.2.6 SPT-06 (iPhone4 GSM)	
5.2.7 SPT-07 (iPhone4 GSM)	
5.2.8 SPT-08 (iPhone4 GSM)	
5.2.9 SPT-09 (iPhone4 GSM)	
5.2.10 SPT-10 (iPhone4 GSM)	
5.2.11 SPT-12 (iPhone4 GSM)	
5.2.12 SPT-13 (iPhone4 GSM)	
5.2.13 SPT-24 (iPhone4 GSM)	
5.2.14 SPT-25 (iPhone4 GSM)	
5.2.15 SPT-33 (iPhone4 GSM)	
5.2.16 SPT-38 (iPhone4 GSM)	
5.2.17 SPT-40 (iPhone4 GSM)	
5.2.18 SPT-01 (iPhone4 CDMA)	
5.2.19 SPT-02 (iPhone4 CDMA)	
5.2.20 SPT-03 (iPhone4 CDMA)	
5.2.21 SPT-04 (iPhone4 CDMA)	
5.2.22 SPT-05 (iPhone4 CDMA)	
5.2.23 SPT-06 (iPhone4 CDMA)	
5.2.24 SPT-07 (iPhone4 CDMA)	
5.2.25 SPT-08 (iPhone4 CDMA)	
5.2.26 SPT-09 (iPhone4 CDMA)	
5.2.27 SPT-10 (iPhone4 CDMA)	. 49

5 2 28	SPT-12 (iPhone4 CDMA)	50
5.2.28		
5.2.29	SPT-13 (iPhone4 CDMA)	
5.2.30	SPT-24 (iPhone4 CDMA).	
5.2.31	SPT-25 (iPhone4 CDMA)	
5.2.32	SPT-33 (iPhone4 CDMA)	
5.2.33	SPT-38 (iPhone4 CDMA)	
5.2.34	SPT-40 (iPhone4 CDMA)	
5.2.35	SPT-01 (iPhone 3.1.2)	
5.2.36	SPT-02 (iPhone 3.1.2)	
5.2.37	SPT-03 (iPhone 3.1.2)	
5.2.38	SPT-04 (iPhone 3.1.2)	. 55
5.2.39	SPT-05 (iPhone 3.1.2)	
5.2.40	SPT-06 (iPhone 3.1.2)	. 56
5.2.41	SPT-07 (iPhone 3.1.2)	. 57
5.2.42	SPT-08 (iPhone 3.1.2)	. 57
5.2.43	SPT-09 (iPhone 3.1.2)	. 58
5.2.44	SPT-10 (iPhone 3.1.2)	. 59
5.2.45	SPT-12 (iPhone 3.1.2)	. 59
5.2.46	SPT-13 (iPhone 3.1.2)	. 60
5.2.47	SPT-24 (iPhone 3.1.2)	. 60
5.2.48	SPT-25 (iPhone 3.1.2)	. 61
5.2.49	SPT-33 (iPhone 3.1.2)	. 61
5.2.50	SPT-38 (iPhone 3.1.2)	. 62
5.2.51	SPT-40 (iPhone 3.1.2)	. 62
5.2.52	SPT-01 (iPhone 3.1.3)	
5.2.53	SPT-02 (iPhone 3.1.3)	
5.2.54	SPT-03 (iPhone 3.1.3)	
5.2.55	SPT-04 (iPhone 3.1.3)	
5.2.56	SPT-05 (iPhone 3.1.3)	. 65
5.2.57	SPT-06 (iPhone 3.1.3)	
5.2.58	SPT-07 (iPhone 3.1.3)	
5.2.59	SPT-08 (iPhone 3.1.3)	
5.2.60	SPT-09 (iPhone 3.1.3)	
5.2.61	SPT-10 (iPhone 3.1.3)	
5.2.62	SPT-12 (iPhone 3.1.3)	
5.2.63	SPT-12 (iPhone 3.1.3)	
5.2.64	SPT-24 (iPhone 3.1.3)	
5.2.65	SPT-25 (iPhone 3.1.3)	
5.2.66	SPT-33 (iPhone 3.1.3)	
5.2.67	SPT-38 (iPhone 3.1.3)	
5.2.68	SPT-40 (iPhone 3.1.3)	
5.2.00	0 + 1 - 1 + 0 (11 110 11.1.3)	. 14

Introduction

The Computer Forensics Tool Testing (CFTT) program is a joint project of the National Institute of Justice (NIJ), the Department of Homeland Security Science and Technology Directorate (DHS S&T), and the National Institute of Standards and Technology Law Enforcement Standards Office (OLES) and Information Technology Laboratory (ITL). CFTT is supported by other organizations, including the Federal Bureau of Investigation, the U.S. Department of Defense Cyber Crime Center, the U.S. Internal Revenue Service Criminal Investigation Division Electronic Crimes Program, 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 Naval Postgraduate School, the National White Collar Crime Center, the Commody Future Trading Commission, the U.S. Postal Service, and the Securities and Exchange Commission. 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, for users to make informed choices, and for the legal community and others to understand the tools' capabilities. The CFTT 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 (<u>http://www.cftt.nist.gov/</u>) are available for review and comment by the computer forensics community.

This document reports the results from testing Lantern version 2.3 against the *Smart Phone Tool Test Assertions and Test Plan*, available at the CFTT Web site (www.cftt.nist.gov/mobile_devices.htm).

Test results from other tools and the CFTT tool methodology can be found on NIJ's computer forensics tool testing Web

page, http://www.ojp.usdoj.gov/nij/topics/technology/electronic-crime/cftt.htm.

How to Read This Report

This report is divided into five sections. The first section is a summary of the results from the test runs. This section is sufficient for most readers to assess the suitability of the tool for the intended use. The remaining sections of the report describe how the tests were conducted, discuss any anomalies that were encountered and provide documentation of test case run details that support the report summary. Section 2 gives justification for the selection of test cases from the set of possible cases defined in the test plan for Smart Phone forensic tools. The test cases are selected, in general, based on the basis of features offered by the tool. Section 3 describes in more depth any anomalies summarized in the first section. Section 4 lists hardware and software used to run the test cases. Section 5

contains a description of each test case run. The description of each test run lists all test assertions used in the test case, the expected result and the actual result. Please refer to the vendor's owner manual for guidance on using the tool.

Test Results for Mobile Device Data Acquisition Tool

Tool Tested:	Lantern
Version:	2.3
Run Environment:	Mac OS X v10.6.8
Supplier:	Katana Forensics, Inc.
Address:	1425 K St. NW Suite 350 Washington, DC 20005
Tel: WWW:	855–552–8262 http://www.katanaforensics.com

1 Results Summary

Lantern version 2.3 is designed for logical acquisitions, data analysis, and report management from mobile devices running iOS.

The tool was tested for its ability to acquire data from the internal memory of mobile devices running iOS. Except for the following anomalies, the tool acquired all supported data objects completely and accurately for all four mobile devices tested.

Acquisition attempt of nonsupported devices:

 Attempting acquisition of a nonsupported device (i.e., iPod Nano) did not provide an error message stating the device is not supported. A force quit on the acquisition had to be performed. (iPod Nano)

Subscriber-and equipment-related information:

- Subscriber related information was not reported. (iPhone4 CDMA)
- Equipment related information was not reported. (iPhone4 CDMA)

Personal Information Management (PIM) data:

 Address book entries that contained data fields for the First, Middle and Last names only reported the First and Last name e.g., John Doe Smith was reported as: John Smith. (iPhone4 GSM, iPhone4 CDMA, iPhone_3.1.2, iPhone_3.1.3)

Acquisition of Internet related data:

Internet related data i.e., bookmarks were not reported. (iPhone_3.1.2, iPhone_3.1.3)

Refer to sections 3.1–3.4 for additional details.

2 Test Case Selection

Test cases used to test mobile device acquisition tools are defined in *Smart Phone Tool Test Assertions and Test Plan Version 1.0.* To test a tool, test cases are selected from the *Test Plan* document based on the features offered by the tool. Not all test cases or test assertions are appropriate for all tools. There is a core set of bases cases that are executed for every tool tested. Tool features guide the selection of additional test cases. If a given tool implements a given feature then the test cases linked to that feature are run. Tables (1a-1d) list the test cases available in Smartphone Examiner. Tables (2a-2d) list the test cases not available in Smartphone Examiner.

Supported Optional Feature	Cases Selected for Execution
Base cases	SPT-01, SPT-02, SPT-03, SPT-04, SPT-
	05, SPT-06, SPT-07, SPT-08, SPT-09,
	SPT-10, SPT-12, SPT-13
Acquire mobile device internal memory and	SPT-24
review reported data via supported generated	
report formats.	
Acquire mobile device internal memory and	SPT-25
review reported data via the preview pane.	
Acquire mobile device internal memory and	SPT-33
review data containing non-ASCII	
characters.	
Acquire mobile device internal memory and	SPT-38
review hash values for vendor supported	
data objects.	
Acquire mobile device internal memory and	SPT-40
review data containing GPS longitude and	
latitude coordinates.	

Table 1a: Selected Test Cases (iPhone4 GSM)

Table 2a: Omitted Test Cases (iPhone4 GSM)

Unsupported Optional Feature	Cases omitted - not executed
Acquire mobile device internal memory and review application related	SPT-11
data (i.e., word documents, spreadsheet, presentation documents).	
Acquire SIM memory over supported interfaces (e.g., PC/SC reader).	SPT-14
Attempt acquisition of a nonsupported SIM.	SPT-15
Begin SIM acquisition and interrupt connectivity by interface	SPT-16
disengagement.	
Acquire SIM memory and review reported subscriber and equipment	SPT-17
related information (i.e., SPN, ICCID, IMSI, MSISDN).	
Acquire SIM memory and review reported Abbreviated Dialing Numbers	SPT-18
(ADN).	
Acquire SIM memory and review reported Last Numbers Dialed (LND).	SPT-19
Acquire SIM memory and review reported text messages (SMS, EMS).	SPT-20
Acquire SIM memory and review recoverable deleted text messages	SPT-21
(SMS, EMS).	

Unsupported Optional Feature	Cases omitted - not executed
Acquire SIM memory and review reported location related data (i.e., LOCI, GPRSLOCI).	SPT-22
Acquire SIM memory by selecting a combination of supported data elements.	SPT-23
Acquire SIM memory and review reported data via supported generated report formats.	SPT-26
Acquire SIM memory and review reported data via the preview-pane.	SPT-27
Attempt acquisition of a password-protected SIM.	SPT-28
After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.	SPT-29
After a successful SIM acquisition, alter the case file via third-party means and attempt to re-open the case.	SPT-30
Perform a physical acquisition and review data output for readability.	SPT-31
Perform a physical acquisition and review reports for recoverable deleted data.	SPT-32
Acquire SIM memory and review data containing non-ASCII characters.	SPT-34
Begin acquisition on a PIN protected SIM to determine if the tool provides an accurate count of the remaining number of PIN attempts and if the PIN attempts are decremented when entering an incorrect value.	SPT-35
Begin acquisition on a SIM whose PIN attempts have been exhausted to determine if the tool provides an accurate count of the remaining number of PUK attempts and if the PUK attempts are decremented when entering an incorrect value.	SPT-36
Perform a stand-alone mobile device internal memory acquisition and review the status flags for text messages present on the SIM.	SPT-37
Acquire SIM memory and review hash values for vendor supported data objects.	SPT-39

Table 1b: Selected Test Cases (iPhone4 CDMA)

Supported Optional Feature	Cases Selected for Execution
	SPT-01, SPT-02, SPT-03, SPT-04, SPT-
	05, SPT-06, SPT-07, SPT-08, SPT-09,
	SPT-10, SPT-12, SPT-13
Acquire mobile device internal memory and	SPT-24
review reported data via supported generated	
report formats.	
Acquire mobile device internal memory and	SPT-25
review reported data via the preview pane.	
Acquire mobile device internal memory and	SPT-33
review data containing non-ASCII	
characters.	
Acquire mobile device internal memory and	SPT-38
review hash values for vendor supported	

Supported Optional Feature	Cases Selected for Execution
data objects.	
Acquire mobile device internal memory and	SPT-40
review data containing GPS longitude and	
latitude coordinates.	

Table 2b: Omitted Test Cases (iPhone4 CDMA)

Unsupported Optional Feature	Cases
	omitted - not
A coving makile device internal memory and review anglication related	executed
Acquire mobile device internal memory and review application related	SPT-11
data (i.e., word documents, spreadsheet, presentation documents).	
Acquire SIM memory over supported interfaces (e.g., PC/SC reader).	SPT-14
Attempt acquisition of a nonsupported SIM.	SPT-15
Begin SIM acquisition and interrupt connectivity by interface	SPT-16
disengagement.	
Acquire SIM memory and review reported subscriber and equipment	SPT-17
related information (i.e., SPN, ICCID, IMSI, MSISDN).	
Acquire SIM memory and review reported Abbreviated Dialing Numbers (ADN).	SPT-18
Acquire SIM memory and review reported Last Numbers Dialed (LND).	SPT-19
Acquire SIM memory and review reported text messages (SMS, EMS).	SPT-20
Acquire SIM memory and review recoverable deleted text messages (SMS, EMS).	SPT-21
Acquire SIM memory and review reported location related data (i.e., LOCI, GPRSLOCI).	SPT-22
Acquire SIM memory by selecting a combination of supported data elements.	SPT-23
Acquire SIM memory and review reported data via supported generated report formats.	SPT-26
Acquire SIM memory and review reported data via the preview-pane.	SPT-27
Attempt acquisition of a password-protected SIM.	SPT-28
After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.	SPT-29
After a successful SIM acquisition, alter the case file via third-party means and attempt to re-open the case.	SPT-30
Perform a physical acquisition and review data output for readability.	SPT-31
Perform a physical acquisition and review reports for recoverable deleted data.	SPT-32
Acquire SIM memory and review data containing non-ASCII characters.	SPT-34
Begin acquisition on a PIN protected SIM to determine if the tool provides	SPT-35
an accurate count of the remaining number of PIN attempts and if the PIN	
attempts are decremented when entering an incorrect value.	
Begin acquisition on a SIM whose PIN attempts have been exhausted to	SPT-36
determine if the tool provides an accurate count of the remaining number	

Unsupported Optional Feature	Cases omitted - not executed
of PUK attempts and if the PUK attempts are decremented when entering	
an incorrect value.	
Perform a stand-alone mobile device internal memory acquisition and	SPT-37
review the status flags for text messages present on the SIM.	
Acquire SIM memory and review hash values for vendor supported data	SPT-39
objects.	

Supported Optional Feature Cases Selected for Execution Base cases SPT-01, SPT-02, SPT-03, SPT-04, SPT-05, SPT-06, SPT-07, SPT-08, SPT-09, SPT-10, SPT-12, SPT-13 SPT-24 Acquire mobile device internal memory and review reported data via supported generated report formats. Acquire mobile device internal memory and SPT-25 review reported data via the preview pane. Acquire mobile device internal memory and **SPT-33** review data containing non-ASCII characters. Acquire mobile device internal memory and **SPT-38** review hash values for vendor supported data objects. Acquire mobile device internal memory and **SPT-40** review data containing GPS longitude and latitude coordinates.

Table 1c: Selected Test Cases (iPhone_3.1.2)

Table 2c: Omitted Test Cases (iPhone_3.1.2)

Unsupported Optional Feature	Cases omitted - not executed
Acquire mobile device internal memory and review application related	SPT-11
data (i.e., word documents, spreadsheet, presentation documents).	
Acquire SIM memory over supported interfaces (e.g., PC/SC reader).	SPT-14
Attempt acquisition of a nonsupported SIM.	SPT-15
Begin SIM acquisition and interrupt connectivity by interface	SPT-16
disengagement.	
Acquire SIM memory and review reported subscriber and equipment related information (i.e., SPN, ICCID, IMSI, MSISDN).	SPT-17
Acquire SIM memory and review reported Abbreviated Dialing Numbers	SPT-18
(ADN).	
Acquire SIM memory and review reported Last Numbers Dialed (LND).	SPT-19

Unsupported Optional Feature	Cases omitted - not
	executed
Acquire SIM memory and review reported text messages (SMS, EMS).	SPT-20
Acquire SIM memory and review recoverable deleted text messages	SPT-21
(SMS, EMS).	
Acquire SIM memory and review reported location related data (i.e., LOCI, GPRSLOCI).	SPT-22
Acquire SIM memory by selecting a combination of supported data	SPT-23
elements.	
Acquire SIM memory and review reported data via supported generated report formats.	SPT-26
Acquire SIM memory and review reported data via the preview-pane.	SPT-27
Attempt acquisition of a password-protected SIM.	SPT-28
After a successful mobile device internal memory, alter the case file via	SPT-29
third-party means and attempt to re-open the case.	
After a successful SIM acquisition, alter the case file via third-party means	SPT-30
and attempt to re-open the case.	
Perform a physical acquisition and review data output for readability.	SPT-31
Perform a physical acquisition and review reports for recoverable deleted data.	SPT-32
Acquire SIM memory and review data containing non-ASCII characters.	SPT-34
Begin acquisition on a PIN protected SIM to determine if the tool provides	SPT-35
an accurate count of the remaining number of PIN attempts and if the PIN	
attempts are decremented when entering an incorrect value.	
Begin acquisition on a SIM whose PIN attempts have been exhausted to	SPT-36
determine if the tool provides an accurate count of the remaining number	
of PUK attempts and if the PUK attempts are decremented when entering	
an incorrect value.	~~~~
Perform a stand-alone mobile device internal memory acquisition and	SPT-37
review the status flags for text messages present on the SIM.	
Acquire SIM memory and review hash values for vendor supported data	SPT-39
objects.	

Table 1d: Selected Test Cases (iPhone_3.1.3)

Supported Optional Feature	Cases Selected for Execution
Base cases	SPT-01, SPT-02, SPT-03, SPT-04, SPT-
	05, SPT-06, SPT-07, SPT-08, SPT-09,
	SPT-10, SPT-12, SPT-13
Acquire mobile device internal memory and	SPT-24
review reported data via supported generated	
report formats.	
Acquire mobile device internal memory and	SPT-25
review reported data via the preview pane.	
Acquire mobile device internal memory and	SPT-33
review data containing non-ASCII	

Supported Optional Feature	Cases Selected for Execution
characters.	
Acquire mobile device internal memory and review hash values for vendor supported data objects.	SPT-38
Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates.	SPT-40

Table 2d: Omitted Test Cases (iPhone_3.1.3)

Unsupported Optional Feature	Cases omitted - not
	executed
Acquire mobile device internal memory and review application related	SPT-11
data (i.e., word documents, spreadsheet, presentation documents).	
Acquire SIM memory over supported interfaces (e.g., PC/SC reader).	SPT-14
Attempt acquisition of a nonsupported SIM.	SPT-15
Begin SIM acquisition and interrupt connectivity by interface	SPT-16
disengagement.	
Acquire SIM memory and review reported subscriber and equipment	SPT-17
related information (i.e., SPN, ICCID, IMSI, MSISDN).	
Acquire SIM memory and review reported Abbreviated Dialing Numbers	SPT-18
(ADN).	
Acquire SIM memory and review reported Last Numbers Dialed (LND).	SPT-19
Acquire SIM memory and review reported text messages (SMS, EMS).	SPT-20
Acquire SIM memory and review recoverable deleted text messages	SPT-21
(SMS, EMS).	
Acquire SIM memory and review reported location related data (i.e.,	SPT-22
LOCI, GPRSLOCI).	
Acquire SIM memory by selecting a combination of supported data	SPT-23
elements.	
Acquire SIM memory and review reported data via supported generated	SPT-26
report formats.	
Acquire SIM memory and review reported data via the preview-pane.	SPT-27
Attempt acquisition of a password-protected SIM.	SPT-28
After a successful mobile device internal memory, alter the case file via	SPT-29
third-party means and attempt to re-open the case.	
After a successful SIM acquisition, alter the case file via third-party means	SPT-30
and attempt to re-open the case.	
Perform a physical acquisition and review data output for readability.	SPT-31
Perform a physical acquisition and review reports for recoverable deleted	SPT-32
data.	
Acquire SIM memory and review data containing non-ASCII characters.	SPT-34
Begin acquisition on a PIN protected SIM to determine if the tool provides	SPT-35
an accurate count of the remaining number of PIN attempts and if the PIN	

Unsupported Optional Feature	Cases omitted - not executed
attempts are decremented when entering an incorrect value.	
Begin acquisition on a SIM whose PIN attempts have been exhausted to determine if the tool provides an accurate count of the remaining number of PUK attempts and if the PUK attempts are decremented when entering an incorrect value.	SPT-36
Perform a stand-alone mobile device internal memory acquisition and review the status flags for text messages present on the SIM.	SPT-37
Acquire SIM memory and review hash values for vendor supported data objects.	SPT-39

3 Results by Test Assertion

A test assertion is a verifiable statement about a single condition after an action is performed by the tool under test. A test case usually checks a group of assertions after the action of a single execution of the tool under test. Test assertions are defined and linked to test cases in *Smart Phone Tool Test Assertions and Test Plan Version 1.0*.

Tables 3a - 3d summarize the test results by assertion. The column labeled **Assertions Tested** describes 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 any anomalies are discussed.

Assertions Tested	Tests	Anomaly
SPT-CA-01 If a cellular forensic tool provides support for connectivity		
of the target device then the tool shall successfully recognize the target	1	
device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).		
SPT-CA-02 If a cellular forensic tool attempts to connect to a		
nonsupported device then the tool shall notify the user that the device is	1	3.1
not supported.		
SPT-CA-03 If connectivity between the mobile device and cellular		
forensic tool is disrupted then the tool shall notify the user that	1	
connectivity has been disrupted.		
SPT-CA-04 If a cellular forensic tool completes acquisition of the target		
device without error then the tool shall have the ability to present	2	
acquired data objects in a useable format via either a preview pane or	2	
generated report.		
SPT-CA-05 If a cellular forensic tool completes acquisition of the target		
device without error then subscriber-related information shall be	1	
presented in a useable format.		
SPT-CA-06 If a cellular forensic tool completes acquisition of the target	1	
device without error then equipment related information shall be	1	

Table 3a: Assertions Tested (iPhone4 GSM)

presented in a useable format. SPT-CA-07 If a cellular forensic tool completes acquisition of the target device without error then address book entries shall be presented in a useable format. 1 SPT-CA-08 If a cellular forensic tool completes acquisition of the target device without error then maximum length address book entries shall be presented in a useable format. 3.3 SPT-CA-09 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing special characters shall be presented in a useable format. 1 SPT-CA-10 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing blank names shall be presented in a useable format. 1 SPT-CA-11 If a cellular forensic tool completes acquisition of the target device without error then email addresses associated with address book entries shall be presented in a useable format. 1 SPT-CA-12 If a cellular forensic tool completes acquisition of the target device without error then graphics associated with address book entries shall be presented in a useable format. 1 SPT-CA-13 If a cellular forensic tool completes acquisition of the target device without error then datebook, calendar, note entries shall be target device without error then maximum length datebook, calendar, note entries shall be presented in a useable format. 1 SPT-CA-14 If a cellular forensic tool completes acquisition of the target device without error then datebook, calendar, note entries shall be presented in a useable format. 1 SPT-CA-15 If a cellular forensic	Assertions Tested	Tests	Anomaly
device without error then address book entries shall be presented in a 1 SPT-CA-08 If a cellular forensic tool completes acquisition of the target device without error then maximum length address book entries shall be presented in a useable format. 3.3 SPT-CA-09 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing special 1 1 characters shall be presented in a useable format. SPT-CA-10 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing blank names shall be presented in a useable format. 1 SPT-CA-11 If a cellular forensic tool completes acquisition of the target device without error then email addresses associated with address book entries shall be presented in a useable format. 1 SPT-CA-12 If a cellular forensic tool completes acquisition of the target device without error then graphics associated with address book entries 1 1 shall be presented in a useable format. 1 1 SPT-CA-13 If a cellular forensic tool completes acquisition of the target device without error then datebook, calendar, note entries shall be presented in a useable format. 1 SPT-CA-13 If a cellular forensic tool completes acquisition of the target device without error then maximum length datebook, calendar, note entries shall be presented in a useable format. 1 SPT-CA-15 If a cellular forensic tool completes acquisition of the target device without error then call logs (incoming/outgoing/missed) shall be presented	4		
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	SPT-AO-41 If the cellular forensic tool supports proper display of non-	1	

Assertions Tested	Tests	Anomaly
ASCII characters then the application should present text messages in		
their native format.		
SPT-AO-43 If the cellular forensic tool supports hashing for individual		
data objects then the tool shall present the user with a hash value for	1	
each supported data object.		
SPT-AO-44 If the cellular forensic tool supports acquisition of GPS		
data then the tool shall present the user with the longitude and latitude	1	
coordinates for all GPS-related data in a useable format.		

Table 3b: Assertions Tested: (iPhone4 CDMA)

Assertions Tested	Tests	Anomaly
SPT-CA-01 If a cellular forensic tool provides support for connectivity		
of the target device then the tool shall successfully recognize the target	1	
device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).		
SPT-CA-02 If a cellular forensic tool attempts to connect to a		
nonsupported device then the tool shall notify the user that the device is	1	3.1
not supported.		
SPT-CA-03 If connectivity between the mobile device and cellular		
forensic tool is disrupted then the tool shall notify the user that	1	
connectivity has been disrupted.		
SPT-CA-04 If a cellular forensic tool completes acquisition of the target		
device without error then the tool shall have the ability to present		
acquired data objects in a useable format via either a preview pane or	2	
generated report.		
SPT-CA-05 If a cellular forensic tool completes acquisition of the target		
device without error then subscriber-related information shall be	1	3.2
presented in a useable format.		
SPT-CA-06 If a cellular forensic tool completes acquisition of the target		
device without error then equipment related information shall be	1	3.2
presented in a useable format.		
SPT-CA-07 If a cellular forensic tool completes acquisition of the target		
device without error then address book entries shall be presented in a	1	
useable format.		
SPT-CA-08 If a cellular forensic tool completes acquisition of the target		
device without error then maximum length address book entries shall be	1	3.3
presented in a useable format.		
SPT-CA-09 If a cellular forensic tool completes acquisition of the target		
device without error then address book entries containing special	1	
characters shall be presented in a useable format.	-	
SPT-CA-10 If a cellular forensic tool completes acquisition of the target		
device without error then address book entries containing blank names	1	
shall be presented in a useable format.		
SPT-CA-11 If a cellular forensic tool completes acquisition of the target		
device without error then email addresses associated with address book	1	
dense without error then email addresses associated with address book	1	

Assertions Tested	Tests	Anomaly
entries shall be presented in a useable format.		
SPT-CA-12 If a cellular forensic tool completes acquisition of the target		
device without error then graphics associated with address book entries	1	
shall be presented in a useable format.		
SPT-CA-13 If a cellular forensic tool completes acquisition of the target		
device without error then datebook, calendar, note entries shall be	1	
presented in a useable format.		
SPT-CA-14 If a cellular forensic tool completes acquisition of the target		
device without error then maximum length datebook, calendar, note	1	
entries shall be presented in a useable format.		
SPT-CA-15 If a cellular forensic tool completes acquisition of the target		
device without error then call logs (incoming/outgoing/missed) shall be	1	
presented in a useable format.		
SPT-CA-16 If a cellular forensic tool completes acquisition of the target		
device without error then the corresponding date/time stamps and the	1	
duration of the call for call logs shall be presented in a useable format.	_	
SPT-CA-17 If a cellular forensic tool completes acquisition of the target		
device without error then ASCII text messages (i.e., SMS, EMS) shall	1	
be presented in a useable format.	-	
SPT-CA-18 If a cellular forensic tool completes acquisition of the target		
device without error then the corresponding date/time stamps for text	1	
messages shall be presented in a useable format.	1	
SPT-CA-19 If a cellular forensic tool completes acquisition of the target		
device without error then the corresponding status (i.e., read, unread) for	1	
text messages shall be presented in a useable format.	1	
SPT-CA-20 If a cellular forensic tool completes acquisition of the target		
device without error then the corresponding sender / recipient phone	1	
numbers for text messages shall be presented in a useable format.	1	
SPT-CA-21 If a cellular forensic tool completes acquisition of the target		
device without error then MMS messages and associated audio shall be	1	
presented in a useable format.	1	
SPT-CA-22 If a cellular forensic tool completes acquisition of the target		
device without error then MMS messages and associated graphic files	1	
shall be presented in a useable format.	1	
SPT-CA-23 If a cellular forensic tool completes acquisition of the target		
device without error then MMS messages and associated video shall be	1	
presented in a useable format.	1	
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SPT-CA-24 If a cellular forensic tool completes acquisition of the target device without error then stand alone audio files shall be presented in a		
device without error then stand-alone audio files shall be presented in a useable format via either an internal application or suggested third party	1	
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SPT-CA-25 If a cellular forensic tool completes acquisition of the target		
device without error then stand-alone graphic files shall be presented in	1	
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"Acquire All" device data objects acquisition option then the tool shall2complete the acquisition of all data objects without error.2SPT-CA-30 If a cellular forensic tool provides the user with a "SelectAll" individual device data objects then the tool shall complete the2acquisition of all individually selected data objects without error.2SPT-CA-31 If a cellular forensic tool provides the user with the ability2to "Select Individual" device data objects for acquisition then the tool2shall acquire each exclusive data object without error.2SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data1objects) on the mobile device shall remain consistent.1	
complete the acquisition of all data objects without error.SPT-CA-30 If a cellular forensic tool provides the user with a "Select All" individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error.SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error.SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data1objects) on the mobile device shall remain consistent.	
SPT-CA-30 If a cellular forensic tool provides the user with a "Select All" individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error.2SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error.2SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data1objects) on the mobile device shall remain consistent.2	
All" individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error.2SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error.2SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data1objects) on the mobile device shall remain consistent.2	
acquisition of all individually selected data objects without error.SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool2shall acquire each exclusive data object without error.2SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data1objects) on the mobile device shall remain consistent.2	
SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool2shall acquire each exclusive data object without error.2SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data1objects) on the mobile device shall remain consistent.1	
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shall acquire each exclusive data object without error.SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data1objects) on the mobile device shall remain consistent.	
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acquisitions of the target device without error then the payload (data1objects) on the mobile device shall remain consistent.1	
objects) on the mobile device shall remain consistent.	
I SI I-AO-23 II A CEITUIAI IOICIISIC IOOI COMPICIES ACQUISILIOII OI UIC LAISCI	
device without error then the tool shall present the acquired data in a 1	
useable format via supported generated report formats.	
SPT-AO-26 If a cellular forensic tool completes acquisition of the target	
device without error then the tool shall present the acquired data in a 1	
useable format in a preview pane view.	
SPT-AO-40 If the cellular forensic tool supports display of non-ASCII	
characters then the application should present address book entries in 1	
their native format.	
SPT-AO-41 If the cellular forensic tool supports proper display of non-	
ASCII characters then the application should present text messages in 1	
their native format.	
SPT-AO-43 If the cellular forensic tool supports hashing for individual	
data objects then the tool shall present the user with a hash value for 1	
each supported data object.	
SPT-AO-44 If the cellular forensic tool supports acquisition of GPS	
data then the tool shall present the user with the longitude and latitude 1	
coordinates for all GPS-related data in a useable format.	

 Table 3c: Assertions Tested: (iPhone_3.1.2)

Assertions Tested	Tests	Anomaly
SPT-CA-01 If a cellular forensic tool provides support for connectivity		
of the target device then the tool shall successfully recognize the target	1	
device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).		
SPT-CA-02 If a cellular forensic tool attempts to connect to a	1	3.1

Assertions Tested	Tests	Anomaly
nonsupported device then the tool shall notify the user that the device is		
not supported.		
SPT-CA-03 If connectivity between the mobile device and cellular		
forensic tool is disrupted then the tool shall notify the user that	1	
connectivity has been disrupted.		
SPT-CA-04 If a cellular forensic tool completes acquisition of the target		
device without error then the tool shall have the ability to present	2	
acquired data objects in a useable format via either a preview pane or	2	
generated report.		
SPT-CA-05 If a cellular forensic tool completes acquisition of the target		
device without error then subscriber-related information shall be	1	
presented in a useable format.		
SPT-CA-06 If a cellular forensic tool completes acquisition of the target		
device without error then equipment related information shall be	1	
presented in a useable format.		
SPT-CA-07 If a cellular forensic tool completes acquisition of the target		
device without error then address book entries shall be presented in a	1	
useable format.		
SPT-CA-08 If a cellular forensic tool completes acquisition of the target		
device without error then maximum length address book entries shall be	1	3.3
presented in a useable format.		
SPT-CA-09 If a cellular forensic tool completes acquisition of the target		
device without error then address book entries containing special	1	
characters shall be presented in a useable format.		
SPT-CA-10 If a cellular forensic tool completes acquisition of the target		
device without error then address book entries containing blank names	1	
shall be presented in a useable format.		
SPT-CA-11 If a cellular forensic tool completes acquisition of the target		
device without error then email addresses associated with address book	1	
entries shall be presented in a useable format.		
SPT-CA-12 If a cellular forensic tool completes acquisition of the target		
device without error then graphics associated with address book entries	1	
shall be presented in a useable format.		
SPT-CA-13 If a cellular forensic tool completes acquisition of the target		
device without error then datebook, calendar, note entries shall be	1	
presented in a useable format.		
SPT-CA-14 If a cellular forensic tool completes acquisition of the target		
device without error then maximum length datebook, calendar, note	1	
entries shall be presented in a useable format.		
SPT-CA-15 If a cellular forensic tool completes acquisition of the target		
device without error then call logs (incoming/outgoing/missed) shall be	1	
presented in a useable format.		
SPT-CA-16 If a cellular forensic tool completes acquisition of the target		
device without error then the corresponding date/time stamps and the	1	
duration of the call for call logs shall be presented in a useable format.		

Assertions Tested	Tests	Anomaly
SPT-CA-17 If a cellular forensic tool completes acquisition of the target		
device without error then ASCII text messages (i.e., SMS, EMS) shall	1	
be presented in a useable format.		
SPT-CA-18 If a cellular forensic tool completes acquisition of the target		
device without error then the corresponding date/time stamps for text	1	
messages shall be presented in a useable format.		
SPT-CA-19 If a cellular forensic tool completes acquisition of the target		
device without error then the corresponding status (i.e., read, unread) for	1	
text messages shall be presented in a useable format.		
SPT-CA-20 If a cellular forensic tool completes acquisition of the target		
device without error then the corresponding sender / recipient phone	1	
numbers for text messages shall be presented in a useable format.		
SPT-CA-21 If a cellular forensic tool completes acquisition of the target		
device without error then MMS messages and associated audio shall be	1	
presented in a useable format.		
SPT-CA-22 If a cellular forensic tool completes acquisition of the target		
device without error then MMS messages and associated graphic files	1	
shall be presented in a useable format.	_	
SPT-CA-23 If a cellular forensic tool completes acquisition of the target		
device without error then MMS messages and associated video shall be	1	
presented in a useable format.	_	
SPT-CA-24 If a cellular forensic tool completes acquisition of the target		
device without error then stand-alone audio files shall be presented in a		
useable format via either an internal application or suggested third-party	1	
application.		
SPT-CA-25 If a cellular forensic tool completes acquisition of the target		
device without error then stand-alone graphic files shall be presented in		
a useable format via either an internal application or suggested third-	1	
party application.		
SPT-CA-26 If a cellular forensic tool completes acquisition of the target		
device without error then stand-alone video files shall be presented in a		
useable format via either an internal application or suggested third-party	1	
application.		
SPT-CA-28 If a cellular forensic tool completes acquisition of the target		
device without error then Internet related data (i.e., bookmarks, visited		
sites) cached to the device shall be acquired and presented in a useable	1	3.4
format.		
SPT-CA-29 If a cellular forensic tool provides the user with an		
"Acquire All" device data objects acquisition option then the tool shall	2	
	2	
complete the acquisition of all data objects without error. SPT-CA-30 If a cellular forensic tool provides the user with a "Select		
All" individual device data objects then the tool shall complete the	2	
•		
acquisition of all individually selected data objects without error.		
SPT-CA-31 If a cellular forensic tool provides the user with the ability	2	
to "Select Individual" device data objects for acquisition then the tool		

Assertions Tested	Tests	Anomaly
shall acquire each exclusive data object without error.		
SPT-CA-32 If a cellular forensic tool completes two consecutive logical		
acquisitions of the target device without error then the payload (data	1	
objects) on the mobile device shall remain consistent.		
SPT-AO-25 If a cellular forensic tool completes acquisition of the target		
device without error then the tool shall present the acquired data in a	1	
useable format via supported generated report formats.		
SPT-AO-26 If a cellular forensic tool completes acquisition of the target		
device without error then the tool shall present the acquired data in a	1	
useable format in a preview pane view.		
SPT-AO-40 If the cellular forensic tool supports display of non-ASCII		
characters then the application should present address book entries in	1	
their native format.		
SPT-AO-41 If the cellular forensic tool supports proper display of non-		
ASCII characters then the application should present text messages in	1	
their native format.		
SPT-AO-43 If the cellular forensic tool supports hashing for individual		
data objects then the tool shall present the user with a hash value for	1	
each supported data object.		
SPT-AO-44 If the cellular forensic tool supports acquisition of GPS		
data then the tool shall present the user with the longitude and latitude	1	
coordinates for all GPS-related data in a useable format.		

Table 3d: Assertions Tested: (iPhone_3.1.3)

Assertions Tested	Tests	Anomaly
SPT-CA-01 If a cellular forensic tool provides support for connectivity		
of the target device then the tool shall successfully recognize the target	1	
device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).		
SPT-CA-02 If a cellular forensic tool attempts to connect to a		
nonsupported device then the tool shall notify the user that the device is	1	3.1
not supported.		
SPT-CA-03 If connectivity between the mobile device and cellular		
forensic tool is disrupted then the tool shall notify the user that	1	
connectivity has been disrupted.	1	
SPT-CA-04 If a cellular forensic tool completes acquisition of the target		
device without error then the tool shall have the ability to present	2	
acquired data objects in a useable format via either a preview pane or	Z	
generated report.		
SPT-CA-05 If a cellular forensic tool completes acquisition of the target		
device without error then subscriber-related information shall be	1	
presented in a useable format.		
SPT-CA-06 If a cellular forensic tool completes acquisition of the target		
device without error then equipment related information shall be	1	
presented in a useable format.		
SPT-CA-07 If a cellular forensic tool completes acquisition of the target	1	

Assertions Tested	Tests	Anomaly
device without error then address book entries shall be presented in a		
useable format.		
SPT-CA-08 If a cellular forensic tool completes acquisition of the target		
device without error then maximum length address book entries shall be	1	3.3
presented in a useable format.		
SPT-CA-09 If a cellular forensic tool completes acquisition of the target		
device without error then address book entries containing special	1	
characters shall be presented in a useable format.		
SPT-CA-10 If a cellular forensic tool completes acquisition of the target		
device without error then address book entries containing blank names	1	
shall be presented in a useable format.		
SPT-CA-11 If a cellular forensic tool completes acquisition of the target		
device without error then email addresses associated with address book	1	
entries shall be presented in a useable format.		
SPT-CA-12 If a cellular forensic tool completes acquisition of the target		
device without error then graphics associated with address book entries	1	
shall be presented in a useable format.		
SPT-CA-13 If a cellular forensic tool completes acquisition of the target		
device without error then datebook, calendar, note entries shall be	1	
presented in a useable format.		
SPT-CA-14 If a cellular forensic tool completes acquisition of the target		
device without error then maximum length datebook, calendar, note	1	
entries shall be presented in a useable format.		
SPT-CA-15 If a cellular forensic tool completes acquisition of the target		
device without error then call logs (incoming/outgoing/missed) shall be	1	
presented in a useable format.		
SPT-CA-16 If a cellular forensic tool completes acquisition of the target		
device without error then the corresponding date/time stamps and the	1	
duration of the call for call logs shall be presented in a useable format.		
SPT-CA-17 If a cellular forensic tool completes acquisition of the target		
device without error then ASCII text messages (i.e., SMS, EMS) shall	1	
be presented in a useable format.		
SPT-CA-18 If a cellular forensic tool completes acquisition of the target		
device without error then the corresponding date/time stamps for text	1	
messages shall be presented in a useable format.		
SPT-CA-19 If a cellular forensic tool completes acquisition of the target		
device without error then the corresponding status (i.e., read, unread) for	1	
text messages shall be presented in a useable format.	_	
SPT-CA-20 If a cellular forensic tool completes acquisition of the target		
device without error then the corresponding sender / recipient phone	1	
numbers for text messages shall be presented in a useable format.		
SPT-CA-21 If a cellular forensic tool completes acquisition of the target		
device without error then MMS messages and associated audio shall be	1	
presented in a useable format.		
SPT-CA-22 If a cellular forensic tool completes acquisition of the target	1	
STT STT 22 if a contain forensie toor completes acquisition of the target	1	

Assertions Tested	Tests	Anomaly
device without error then MMS messages and associated graphic files		
shall be presented in a useable format.		
SPT-CA-23 If a cellular forensic tool completes acquisition of the target		
device without error then MMS messages and associated video shall be	1	
presented in a useable format.		
SPT-CA-24 If a cellular forensic tool completes acquisition of the target		
device without error then stand-alone audio files shall be presented in a	1	
useable format via either an internal application or suggested third-party	1	
application.		
SPT-CA-25 If a cellular forensic tool completes acquisition of the target		
device without error then stand-alone graphic files shall be presented in	1	
a useable format via either an internal application or suggested third-	1	
party application.		
SPT-CA-26 If a cellular forensic tool completes acquisition of the target		
device without error then stand-alone video files shall be presented in a	1	
useable format via either an internal application or suggested third-party	1	
application.		
SPT-CA-28 If a cellular forensic tool completes acquisition of the target		
device without error then Internet related data (i.e., bookmarks, visited		2.4
sites) cached to the device shall be acquired and presented in a useable	1	3.4
format.		
SPT-CA-29 If a cellular forensic tool provides the user with an		
"Acquire All" device data objects acquisition option then the tool shall	2	
complete the acquisition of all data objects without error.		
SPT-CA-30 If a cellular forensic tool provides the user with an "Select		
All" individual device data objects then the tool shall complete the	2	
acquisition of all individually selected data objects without error.		
SPT-CA-31 If a cellular forensic tool provides the user with the ability		
to "Select Individual" device data objects for acquisition then the tool	2	
shall acquire each exclusive data object without error.		
SPT-CA-32 If a cellular forensic tool completes two consecutive logical		
acquisitions of the target device without error then the payload (data	1	
objects) on the mobile device shall remain consistent.		
SPT-AO-25 If a cellular forensic tool completes acquisition of the target		
device without error then the tool shall present the acquired data in a	1	
useable format via supported generated report formats.		
SPT-AO-26 If a cellular forensic tool completes acquisition of the target		
device without error then the tool shall present the acquired data in a	1	
useable format in a preview pane view.		
SPT-AO-40 If the cellular forensic tool supports display of non-ASCII		
characters then the application should present address book entries in	1	
their native format.	-	
SPT-AO-41 If the cellular forensic tool supports proper display of non-		
ASCII characters then the application should present text messages in	1	
their native format.	Ŧ	
	<u> </u>	

Assertions Tested	Tests	Anomaly
SPT-AO-43 If the cellular forensic tool supports hashing for individual		
data objects then the tool shall present the user with a hash value for	1	
each supported data object.		
SPT-AO-44 If the cellular forensic tool supports acquisition of GPS		
data then the tool shall present the user with the longitude and latitude	1	
coordinates for all GPS-related data in a useable format.		

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

Table 4a: Assertions Not Tested (iPhone4 GSM)

Assertions Not Tested
SPT-CA-27 If a cellular forensic tool completes acquisition of the target device without
error then device specific application related data shall be acquired and presented in a
useable format via either an internal application or suggested third-party application.
SPT-AO-01 If a cellular forensic tool provides support for connectivity of the target SIM
then the tool shall successfully recognize the target SIM via all tool-supported interfaces
(e.g., PC/SC reader, proprietary reader, Smart Phone itself).
SPT-AO-02 If a cellular forensic tool attempts to connect to a nonsupported SIM then the
tool shall notify the user that the SIM is not supported.
SPT-AO-03 If a cellular forensic tool loses connectivity with the SIM reader then the tool
shall notify the user that connectivity has been disrupted.
SPT-AO-04 If a cellular forensic tool completes acquisition of the target SIM without
error then the SPN shall be presented in a useable format.
SPT-AO-05 If a cellular forensic tool completes acquisition of the target SIM without
error then the ICCID shall be presented in a useable format.
SPT-AO-06 If a cellular forensic tool completes acquisition of the target SIM without
error then the IMSI shall be presented in a useable format.
SPT-AO-07 If a cellular forensic tool completes acquisition of the target SIM without
error then the MSISDN shall be presented in a useable format.
SPT-AO-08 If a cellular forensic tool completes acquisition of the target SIM without
error then ASCII Abbreviated Dialing Numbers (ADN) shall be presented in a useable
format.
SPT-AO-09 If a cellular forensic tool completes acquisition of the target SIM without
error then maximum length ADNs shall be presented in a useable format.
SPT-AO-10 If a cellular forensic tool completes acquisition of the SIM without error then
ADNs containing special characters shall be presented in a useable format.
SPT-AO-11 If a cellular forensic tool completes acquisition of the SIM without error then
ADNs containing blank names shall be presented in a useable format.
SPT-AO-12 If a cellular forensic tool completes acquisition of the target SIM without
error then Last Numbers Dialed (LND) shall be presented in a useable format.
SPT-AO-13 If a cellular forensic tool completes acquisition of the target SIM without
error then the corresponding date/time stamps for LNDs shall be presented in a useable
format.

SPT-AO-14 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII SMS text messages shall be presented in a useable format.

SPT-AO-15 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII EMS text messages shall be presented in a useable format.

SPT-AO-16 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding date/time stamps for all text messages shall be presented in a useable format.

SPT-AO-17 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding status (i.e., read, unread) for text messages shall be presented in a useable format.

SPT-AO-18 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding sender / recipient phone numbers for text messages shall be presented in a useable format.

SPT-AO-19 If the cellular forensic tool completes acquisition of the target SIM without error then deleted text messages that have not been overwritten shall be presented in a useable format.

SPT-AO-20 If a cellular forensic tool completes acquisition of the target SIM without error then location related data (i.e., LOCI) shall be presented in a useable format.

SPT-AO-21 If a cellular forensic tool completes acquisition of the target SIM without error then location related data (i.e., GRPSLOCI) shall be presented in a useable format.

SPT-AO-22 If a cellular forensic tool provides the user with an "Acquire All" SIM data objects acquisition option then the tool shall complete the acquisition of all data objects without error.

SPT-AO-23 If a cellular forensic tool provides the user with a "Select All" individual SIM data objects then the tool shall complete the acquisition of all individually selected data objects without error.

SPT-AO-24 If a cellular forensic tool provides the user with the ability to "Select Individual" SIM data objects for acquisition then the tool shall acquire each exclusive data object without error.

SPT-AO-27 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.

SPT-AO-28 If the SIM is password-protected then the cellular forensic tool shall provide the examiner with the opportunity to input the PIN before acquisition.

SPT-AO-29 If a cellular forensic tool provides the examiner with the remaining number of authentication attempts then the application should provide an accurate count of the remaining PIN attempts.

SPT-AO-30 If a cellular forensic tool provides the examiner with the remaining number of PUK attempts then the application should provide an accurate count of the remaining PUK attempts.

SPT-AO-31 If the cellular forensic tool supports a physical acquisition of the target device then the tool shall complete the acquisition without error.

SPT-AO-32 If the cellular forensic tool supports the interpretation of address book entries present on the target device then the tool shall report recoverable active and deleted data or address book data remnants in a useable format.

SPT-AO-33 If the cellular forensic tool supports the interpretation of calendar, tasks, or notes present on the target device then the tool shall report recoverable active and deleted calendar, tasks, or note data remnants in a useable format.

SPT-AO-34 If the cellular forensic tool supports the interpretation of call logs present on the target device then the tool shall report recoverable active and deleted call or call log data remnants in a useable format.

SPT-AO-35 If the cellular forensic tool supports the interpretation of SMS messages present on the target device then the tool shall report recoverable active and deleted SMS messages or SMS message data remnants in a useable format.

SPT-AO-36 If the cellular forensic tool supports the interpretation of EMS messages present on the target device then the tool shall report recoverable active and deleted EMS messages or EMS message data remnants in a useable format.

SPT-AO-37 If the cellular forensic tool supports the interpretation of audio files present on the target device then the tool shall report recoverable active and deleted audio data or audio file data remnants in a useable format.

SPT-AO-38 If the cellular forensic tool supports the interpretation of graphic files present on the target device then the tool shall report recoverable active and deleted graphic file data or graphic file data remnants in a useable format.

SPT-AO-39 If the cellular forensic tool supports the interpretation of video files present on the target device then the tool shall report recoverable active and deleted video file data or video file data remnants in a useable format.

SPT-AO-42 If the cellular forensic tool supports stand-alone acquisition of internal memory with the SIM present, then the contents of the SIM shall not be modified during internal memory acquisition.

Table 4b: Assertions Not Tested (iPhone4 CDMA)

Assertions Not Tested

SPT-CA-27 If a cellular forensic tool completes acquisition of the target device without error then device specific application related data shall be acquired and presented in a useable format via either an internal application or suggested third-party application. SPT-AO-01 If a cellular forensic tool provides support for connectivity of the target SIM

then the tool shall successfully recognize the target SIM via all tool-supported interfaces (e.g., PC/SC reader, proprietary reader, Smart Phone itself).

SPT-AO-02 If a cellular forensic tool attempts to connect to a nonsupported SIM then the tool shall notify the user that the SIM is not supported.

SPT-AO-03 If a cellular forensic tool loses connectivity with the SIM reader then the tool shall notify the user that connectivity has been disrupted.

SPT-AO-04 If a cellular forensic tool completes acquisition of the target SIM without error then the SPN shall be presented in a useable format.

SPT-AO-05 If a cellular forensic tool completes acquisition of the target SIM without error then the ICCID shall be presented in a useable format.

SPT-AO-06 If a cellular forensic tool completes acquisition of the target SIM without error then the IMSI shall be presented in a useable format.

SPT-AO-07 If a cellular forensic tool completes acquisition of the target SIM without

error then the MSISDN shall be presented in a useable format.

SPT-AO-08 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII Abbreviated Dialing Numbers (ADN) shall be presented in a useable format.

SPT-AO-09 If a cellular forensic tool completes acquisition of the target SIM without error then maximum length ADNs shall be presented in a useable format.

SPT-AO-10 If a cellular forensic tool completes acquisition of the SIM without error then ADNs containing special characters shall be presented in a useable format.

SPT-AO-11 If a cellular forensic tool completes acquisition of the SIM without error then ADNs containing blank names shall be presented in a useable format.

SPT-AO-12 If a cellular forensic tool completes acquisition of the target SIM without error then Last Numbers Dialed (LND) shall be presented in a useable format.

SPT-AO-13 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding date/time stamps for LNDs shall be presented in a useable format.

SPT-AO-14 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII SMS text messages shall be presented in a useable format.

SPT-AO-15 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII EMS text messages shall be presented in a useable format.

SPT-AO-16 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding date/time stamps for all text messages shall be presented in a useable format.

SPT-AO-17 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding status (i.e., read, unread) for text messages shall be presented in a useable format.

SPT-AO-18 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding sender / recipient phone numbers for text messages shall be presented in a useable format.

SPT-AO-19 If the cellular forensic tool completes acquisition of the target SIM without error then deleted text messages that have not been overwritten shall be presented in a useable format.

SPT-AO-20 If a cellular forensic tool completes acquisition of the target SIM without error then location related data (i.e., LOCI) shall be presented in a useable format.

SPT-AO-21 If a cellular forensic tool completes acquisition of the target SIM without error then location related data (i.e., GRPSLOCI) shall be presented in a useable format.

SPT-AO-22 If a cellular forensic tool provides the user with an "Acquire All" SIM data objects acquisition option then the tool shall complete the acquisition of all data objects without error.

SPT-AO-23 If a cellular forensic tool provides the user with a "Select All" individual SIM data objects then the tool shall complete the acquisition of all individually selected data objects without error.

SPT-AO-24 If a cellular forensic tool provides the user with the ability to "Select Individual" SIM data objects for acquisition then the tool shall acquire each exclusive data object without error.

SPT-AO-27 If the case file or individual data objects are modified via third-party means

then the tool shall provide protection mechanisms disallowing or reporting data modification.

SPT-AO-28 If the SIM is password-protected then the cellular forensic tool shall provide the examiner with the opportunity to input the PIN before acquisition.

SPT-AO-29 If a cellular forensic tool provides the examiner with the remaining number of authentication attempts then the application should provide an accurate count of the remaining PIN attempts.

SPT-AO-30 If a cellular forensic tool provides the examiner with the remaining number of PUK attempts then the application should provide an accurate count of the remaining PUK attempts.

SPT-AO-31 If the cellular forensic tool supports a physical acquisition of the target device then the tool shall complete the acquisition without error.

SPT-AO-32 If the cellular forensic tool supports the interpretation of address book entries present on the target device then the tool shall report recoverable active and deleted data or address book data remnants in a useable format.

SPT-AO-33 If the cellular forensic tool supports the interpretation of calendar, tasks, or notes present on the target device then the tool shall report recoverable active and deleted calendar, tasks, or note data remnants in a useable format.

SPT-AO-34 If the cellular forensic tool supports the interpretation of call logs present on the target device then the tool shall report recoverable active and deleted call or call log data remnants in a useable format.

SPT-AO-35 If the cellular forensic tool supports the interpretation of SMS messages present on the target device then the tool shall report recoverable active and deleted SMS messages or SMS message data remnants in a useable format.

SPT-AO-36 If the cellular forensic tool supports the interpretation of EMS messages present on the target device then the tool shall report recoverable active and deleted EMS messages or EMS message data remnants in a useable format.

SPT-AO-37 If the cellular forensic tool supports the interpretation of audio files present on the target device then the tool shall report recoverable active and deleted audio data or audio file data remnants in a useable format.

SPT-AO-38 If the cellular forensic tool supports the interpretation of graphic files present on the target device then the tool shall report recoverable active and deleted graphic file data or graphic file data remnants in a useable format.

SPT-AO-39 If the cellular forensic tool supports the interpretation of video files present on the target device then the tool shall report recoverable active and deleted video file data or video file data remnants in a useable format.

SPT-AO-42 If the cellular forensic tool supports stand-alone acquisition of internal memory with the SIM present, then the contents of the SIM shall not be modified during internal memory acquisition.

Table 4c: Assertions Not Tested (iPhone_3.1.2)

Assertions Not Tested SPT-CA-27 If a cellular forensic tool completes acquisition of the target device without error then device specific application related data shall be acquired and presented in a

useable format via either an internal application or suggested third-party application.

SPT-AO-01 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all tool-supported interfaces (e.g., PC/SC reader, proprietary reader, Smart Phone itself).

SPT-AO-02 If a cellular forensic tool attempts to connect to a nonsupported SIM then the tool shall notify the user that the SIM is not supported.

SPT-AO-03 If a cellular forensic tool loses connectivity with the SIM reader then the tool shall notify the user that connectivity has been disrupted.

SPT-AO-04 If a cellular forensic tool completes acquisition of the target SIM without error then the SPN shall be presented in a useable format.

SPT-AO-05 If a cellular forensic tool completes acquisition of the target SIM without error then the ICCID shall be presented in a useable format.

SPT-AO-06 If a cellular forensic tool completes acquisition of the target SIM without error then the IMSI shall be presented in a useable format.

SPT-AO-07 If a cellular forensic tool completes acquisition of the target SIM without error then the MSISDN shall be presented in a useable format.

SPT-AO-08 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII Abbreviated Dialing Numbers (ADN) shall be presented in a useable format.

SPT-AO-09 If a cellular forensic tool completes acquisition of the target SIM without error then maximum length ADNs shall be presented in a useable format.

SPT-AO-10 If a cellular forensic tool completes acquisition of the SIM without error then ADNs containing special characters shall be presented in a useable format.

SPT-AO-11 If a cellular forensic tool completes acquisition of the SIM without error then ADNs containing blank names shall be presented in a useable format.

SPT-AO-12 If a cellular forensic tool completes acquisition of the target SIM without error then Last Numbers Dialed (LND) shall be presented in a useable format.

SPT-AO-13 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding date/time stamps for LNDs shall be presented in a useable format.

SPT-AO-14 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII SMS text messages shall be presented in a useable format.

SPT-AO-15 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII EMS text messages shall be presented in a useable format.

SPT-AO-16 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding date/time stamps for all text messages shall be presented in a useable format.

SPT-AO-17 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding status (i.e., read, unread) for text messages shall be presented in a useable format.

SPT-AO-18 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding sender / recipient phone numbers for text messages shall be presented in a useable format.

SPT-AO-19 If the cellular forensic tool completes acquisition of the target SIM without error then deleted text messages that have not been overwritten shall be presented in a

useable format.

SPT-AO-20 If a cellular forensic tool completes acquisition of the target SIM without error then location related data (i.e., LOCI) shall be presented in a useable format.

SPT-AO-21 If a cellular forensic tool completes acquisition of the target SIM without error then location related data (i.e., GRPSLOCI) shall be presented in a useable format.

SPT-AO-22 If a cellular forensic tool provides the user with an "Acquire All" SIM data objects acquisition option then the tool shall complete the acquisition of all data objects without error.

SPT-AO-23 If a cellular forensic tool provides the user with a "Select All" individual SIM data objects then the tool shall complete the acquisition of all individually selected data objects without error.

SPT-AO-24 If a cellular forensic tool provides the user with the ability to "Select Individual" SIM data objects for acquisition then the tool shall acquire each exclusive data object without error.

SPT-AO-27 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.

SPT-AO-28 If the SIM is password-protected then the cellular forensic tool shall provide the examiner with the opportunity to input the PIN before acquisition.

SPT-AO-29 If a cellular forensic tool provides the examiner with the remaining number of authentication attempts then the application should provide an accurate count of the remaining PIN attempts.

SPT-AO-30 If a cellular forensic tool provides the examiner with the remaining number of PUK attempts then the application should provide an accurate count of the remaining PUK attempts.

SPT-AO-31 If the cellular forensic tool supports a physical acquisition of the target device then the tool shall complete the acquisition without error.

SPT-AO-32 If the cellular forensic tool supports the interpretation of address book entries present on the target device then the tool shall report recoverable active and deleted data or address book data remnants in a useable format.

SPT-AO-33 If the cellular forensic tool supports the interpretation of calendar, tasks, or notes present on the target device then the tool shall report recoverable active and deleted calendar, tasks, or note data remnants in a useable format.

SPT-AO-34 If the cellular forensic tool supports the interpretation of call logs present on the target device then the tool shall report recoverable active and deleted call or call log data remnants in a useable format.

SPT-AO-35 If the cellular forensic tool supports the interpretation of SMS messages present on the target device then the tool shall report recoverable active and deleted SMS messages or SMS message data remnants in a useable format.

SPT-AO-36 If the cellular forensic tool supports the interpretation of EMS messages present on the target device then the tool shall report recoverable active and deleted EMS messages or EMS message data remnants in a useable format.

SPT-AO-37 If the cellular forensic tool supports the interpretation of audio files present on the target device then the tool shall report recoverable active and deleted audio data or audio file data remnants in a useable format.

SPT-AO-38 If the cellular forensic tool supports the interpretation of graphic files present on the target device then the tool shall report recoverable active and deleted graphic file data or graphic file data remnants in a useable format.

SPT-AO-39 If the cellular forensic tool supports the interpretation of video files present on the target device then the tool shall report recoverable active and deleted video file data or video file data remnants in a useable format.

SPT-AO-42 If the cellular forensic tool supports stand-alone acquisition of internal memory with the SIM present, then the contents of the SIM shall not be modified during internal memory acquisition.

Table 4d: Assertions Not Tested (iPhone_3.1.3)

Assertions Not Tested
SPT-CA-27 If a cellular forensic tool completes acquisition of the target device without
error then device specific application related data shall be acquired and presented in a
useable format via either an internal application or suggested third-party application.
SPT-AO-01 If a cellular forensic tool provides support for connectivity of the target SIM
then the tool shall successfully recognize the target SIM via all tool-supported interfaces
(e.g., PC/SC reader, proprietary reader, Smart Phone itself).
SPT-AO-02 If a cellular forensic tool attempts to connect to a nonsupported SIM then the
tool shall notify the user that the SIM is not supported.
SPT-AO-03 If a cellular forensic tool loses connectivity with the SIM reader then the tool
shall notify the user that connectivity has been disrupted.
SPT-AO-04 If a cellular forensic tool completes acquisition of the target SIM without
error then the SPN shall be presented in a useable format.
SPT-AO-05 If a cellular forensic tool completes acquisition of the target SIM without
error then the ICCID shall be presented in a useable format.
SPT-AO-06 If a cellular forensic tool completes acquisition of the target SIM without
error then the IMSI shall be presented in a useable format.
SPT-AO-07 If a cellular forensic tool completes acquisition of the target SIM without
error then the MSISDN shall be presented in a useable format.
SPT-AO-08 If a cellular forensic tool completes acquisition of the target SIM without
error then ASCII Abbreviated Dialing Numbers (ADN) shall be presented in a useable
format.
SPT-AO-09 If a cellular forensic tool completes acquisition of the target SIM without
error then maximum length ADNs shall be presented in a useable format.
SPT-AO-10 If a cellular forensic tool completes acquisition of the SIM without error then
ADNs containing special characters shall be presented in a useable format.
SPT-AO-11 If a cellular forensic tool completes acquisition of the SIM without error then
ADNs containing blank names shall be presented in a useable format.
SPT-AO-12 If a cellular forensic tool completes acquisition of the target SIM without
error then Last Numbers Dialed (LND) shall be presented in a useable format.
SPT-AO-13 If a cellular forensic tool completes acquisition of the target SIM without
error then the corresponding date/time stamps for LNDs shall be presented in a useable
format.

Assertions Not Tested

SPT-AO-14 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII SMS text messages shall be presented in a useable format.

SPT-AO-15 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII EMS text messages shall be presented in a useable format.

SPT-AO-16 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding date/time stamps for all text messages shall be presented in a useable format.

SPT-AO-17 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding status (i.e., read, unread) for text messages shall be presented in a useable format.

SPT-AO-18 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding sender / recipient phone numbers for text messages shall be presented in a useable format.

SPT-AO-19 If the cellular forensic tool completes acquisition of the target SIM without error then deleted text messages that have not been overwritten shall be presented in a useable format.

SPT-AO-20 If a cellular forensic tool completes acquisition of the target SIM without error then location related data (i.e., LOCI) shall be presented in a useable format.

SPT-AO-21 If a cellular forensic tool completes acquisition of the target SIM without error then location related data (i.e., GRPSLOCI) shall be presented in a useable format.

SPT-AO-22 If a cellular forensic tool provides the user with an "Acquire All" SIM data objects acquisition option then the tool shall complete the acquisition of all data objects without error.

SPT-AO-23 If a cellular forensic tool provides the user with a "Select All" individual SIM data objects then the tool shall complete the acquisition of all individually selected data objects without error.

SPT-AO-24 If a cellular forensic tool provides the user with the ability to "Select Individual" SIM data objects for acquisition then the tool shall acquire each exclusive data object without error.

SPT-AO-27 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.

SPT-AO-28 If the SIM is password-protected then the cellular forensic tool shall provide the examiner with the opportunity to input the PIN before acquisition.

SPT-AO-29 If a cellular forensic tool provides the examiner with the remaining number of authentication attempts then the application should provide an accurate count of the remaining PIN attempts.

SPT-AO-30 If a cellular forensic tool provides the examiner with the remaining number of PUK attempts then the application should provide an accurate count of the remaining PUK attempts.

SPT-AO-31 If the cellular forensic tool supports a physical acquisition of the target device then the tool shall complete the acquisition without error.

SPT-AO-32 If the cellular forensic tool supports the interpretation of address book entries present on the target device then the tool shall report recoverable active and deleted data or address book data remnants in a useable format.

Assertions Not Tested

SPT-AO-33 If the cellular forensic tool supports the interpretation of calendar, tasks, or notes present on the target device then the tool shall report recoverable active and deleted calendar, tasks, or note data remnants in a useable format.

SPT-AO-34 If the cellular forensic tool supports the interpretation of call logs present on the target device then the tool shall report recoverable active and deleted call or call log data remnants in a useable format.

SPT-AO-35 If the cellular forensic tool supports the interpretation of SMS messages present on the target device then the tool shall report recoverable active and deleted SMS messages or SMS message data remnants in a useable format.

SPT-AO-36 If the cellular forensic tool supports the interpretation of EMS messages present on the target device then the tool shall report recoverable active and deleted EMS messages or EMS message data remnants in a useable format.

SPT-AO-37 If the cellular forensic tool supports the interpretation of audio files present on the target device then the tool shall report recoverable active and deleted audio data or audio file data remnants in a useable format.

SPT-AO-38 If the cellular forensic tool supports the interpretation of graphic files present on the target device then the tool shall report recoverable active and deleted graphic file data or graphic file data remnants in a useable format.

SPT-AO-39 If the cellular forensic tool supports the interpretation of video files present on the target device then the tool shall report recoverable active and deleted video file data or video file data remnants in a useable format.

SPT-AO-42 If the cellular forensic tool supports stand-alone acquisition of internal memory with the SIM present, then the contents of the SIM shall not be modified during internal memory acquisition.

The following sections provide detailed information for the anomalies from Tables 3a - 3d.

3.1 Acquisition attempt of nonsupported devices

For test case SPT-02, Lantern did not provide an error message informing the examiner that acquisition of the device (i.e., iPod nano) was not supported. A force quit of the acquire had to be performed.

3.2 Acquisition of subscriber and equipment related information

Subscriber and equipment related information, for the iPhone4 CDMA i.e., International Mobile Equipment Identity (IMEI) and the Mobile Equipment Identity (MEID) was not reported for test case SPT-05.

3.3 Acquisition of Personal Information Management (PIM) data

For test case SPT-06, address book contacts containing data fields for the First, Middle and Last names, Lantern reported only the First and Last Names, e.g., John Doe Smith, was reported as: John Smith. The middle name was not reported for the iPhone4 GSM, iPhone4 CDMA, iPhone_3.1.2, and the iPhone_3.1.3.

3.4 Acquisition of Internet related data

For test case SPT-12, Internet related data (i.e., bookmarks) were not reported for the iPhone_3.1.2 and the iPhone_3.1.3.

4 Testing Environment

The tests were run in the NIST CFTT lab. This section describes the testing environment including available computers, mobile devices and the data objects used to populate mobile devices and Subscriber Identity Modules.

4.1 Test Computers

One computer was used to run the tool: **p630542**. **p630542** has the following configuration:

MacBook Pro Intel® Core 2 Duo Processor Speed: 2.6 GHz Memory: 2GB Boot ROM Version: MBP31.0070.B05

4.2 Mobile Devices

The following table lists the mobile devices used.

Table 4.2 Mobile Devices

Make	Model	OS	Network
Apple iPhone	4	iOS v4.3.3 (8J2)	AT&T
Apple iPhone	4	iOS v5.0.1 (9A405)	Verizon
Apple iPhone	3Gs	iOS v3.1.2 (7D11)	AT&T
Apple iPhone	3G	iOS v3.1.3 (7E18)	AT&T

4.3 Internal Memory Data Objects

The following data objects were used to populate the internal memory of the Smart Phone s.

Data Objects	Data Elements
Address Book Entries	
	Regular Length
	Maximum Length
	Special Character
	Blank Name
	Regular Length, email
	Regular Length, graphic
	Deleted Entry

BitNon-ASCII EntryPIM DataRegular LengthMaximum LengthDeleted EntrySpecial CharacterCall LogsIncomingOutgoingMissedIncoming - DeletedOutgoing - DeletedMissedIncoming - DeletedMissed - DeletedText MessagesIncoming SMS - ReadIncoming SMS - NereadIncoming EMS - UnreadOutgoing EMSIncoming EMS - UnreadOutgoing BMSIncoming SMS - DeletedIncoming SMS - DeletedOutgoing SMSIncoming EMS - DeletedIncoming SMS - DeletedOutgoing SMSIncoming EMS - DeletedOutgoing SMSIncoming EMS - DeletedIncoming SMS - DeletedOutgoing SMS - DeletedIncoming SMS - DeletedIncoming EMS - DeletedIncoming GraphicIncoming GraphicIncoming GraphicIncoming GraphicIncoming VideoOutgoing AudioOutgoing VideoStand-alone data filesAudioGraphicVideoAudioAudio - DeletedAudio	Data Objects	Data Elements
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Graphic - Deleted Video - Deleted Application Data Device Specific App Data		
Video - Deleted Application Data Device Specific App Data		
Device Specific App Data		1
Device Specific App Data	Application Data	
		Device Specific App Data
	Location Data	
GPS Coordinates		GPS Coordinates

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 the **Log Highlights** box of the test report.

5.1 Test Results Report Key

The following table presents an explanation of each section of the test details in section 5.2. The Tester Name, Test Host, Test Date, Device, Source Setup and Log Highlights sections for each test case are populated by excerpts taken from the log files produced by the tool under test.

Heading	Description
First Line:	Test case ID, name, and version of tool tested.
Case Summary:	Test case summary from <i>Smart Phone Tool Test Assertion</i> and Test Plan.
Assertions:	The test assertions applicable to the test case, selected from Smart Phone Tool Test Assertion and Test Plan.
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, SIM.
Source Setup:	Acquisition interface.
Log Highlights:	Information extracted from various log files to illustrate
	conformance or non-conformance to the test assertions.
Results:	Expected and actual results for each assertion tested.
Analysis:	Whether or not the expected results were achieved.

Table 5 Test Results Report Key

5.2 Test Details

The test results are presented in this section.

5.2.1 SPT-01 (iPhone4 GSM)

Test Case SPT	2-01 Lantern v2.3
Case	SPT-01 Acquire mobile device internal memory over tool-supported interfaces
Summary:	(e.g., cable, Bluetooth, IrDA).
Assertions:	SPT-CA-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). SPT-CA-04 If a cellular forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview pane or generated report. SPT-CA-29 If a cellular forensic tool provides the user with an "Acquire All" device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. SPT-CA-30 If a cellular forensic tool provides the user with a "Select All" individual device data objects then the tool shall complete the acquisition

Test Case SPT	-01 Lantern v2.3	
	of all individually selected data objects without error. SPT-CA-31 If a cellular forensic tool provides the user with a "Select Individual" device data objects for acquisition then a acquire each exclusive data object without error. SPT-CA-32 If a cellular forensic tool completes two consecutiv acquisitions of the target device without error then the paylo objects) on the mobile device shall remain consistent.	the tool shall ve logical
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 08:51:41 EDT 2012	
Device:	iPhone4_GSM	
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 08:51:41 EDT 2012 Acquisition finished: Tue Sep 18 08:52:08 EDT 2012 Device connectivity was established via supported interface	
Results:	Assertion & Expected Result	Actual Result
	SPT-CA-01 Device connectivity via supported interfaces.	as expected
	SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected
	SPT-CA-29 Acquire-All data objects acquisition.	as expected
	SPT-CA-30 Select-All data objects acquisition.	as expected
	SPT-CA-31 Select-Individual data objects acquisition.	as expected
	SPT-CA-32 Perform back-to-back acquisitions, check device payload for modifications.	as expected
Analysis:	Expected results achieved	

5.2.2 SPT-02 (iPhone4 GSM)

Test Case SPT	-02 Lantern v2.3	
Case Summary:	SPT-02 Attempt internal memory acquisition of a non	supported mobile device.
Assertions:	SPT-CA-02 If a cellular forensic tool attempts to c device then the tool shall notify the user that the supported.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 08:55:35 EDT 2012	
Device:	unsupported_device	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Tue Sep 18 08:55:35 EDT 2012 Acquisition finished: Tue Sep 18 08:56:37 EDT 2012	
	Identification of nonsupported devices was not succ	essful
Notes : Acquisition of nonsupported devices (i.e., iPod Nano) did not provi- error message stating the device was not supported.		-
Results:		
	Assertion & Expected Result	Actual Result
	SPT-CA-02 Identification of nonsupported devices.	Not as expected

Test Case SPT-02 Lantern v2.3		
Analysis:	Expected results not achieved	

5.2.3 SPT-03 (iPhone4 GSM)

Test Case SPT	-03 Lantern v2.3	
Case Summary:	SPT-03 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.	
Assertions:	SPT-CA-03 If connectivity between the mobile device and cellular forensi tool is disrupted then the tool shall notify the user that connectivity been disrupted.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 08:59:06 EDT 2012	
Device:	iPhone4_GSM	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Tue Sep 18 08:59:06 EDT 2012	
	Acquisition finished: Tue Sep 18 08:59:50 EDT 2012	
	Device acquisition disruption notification was successful	
Results:		
	Assertion & Expected Result Actual Resul	t
	SPT-CA-03 Notification of device acquisition disruption. as expected	
Analysis:	Expected results achieved	

5.2.4 SPT-04 (iPhone4 GSM)

Test Case SPT	-04 Lantern v2.3	
Case	SPT-04 Acquire mobile device internal memory and review repo	orted data via
Summary:	the preview pane or generated reports for readability.	
Assertions:	SPT-CA-04 If a cellular forensic tool completes acquisition device without error then the tool shall have the ability to acquired data objects in a useable format via either a previ generated report.	present
Tester	rpa	
Name:		
Test Host:	p630542	
Test Date:	Tue Sep 18 09:02:43 EDT 2012	
Device:	iPhone4_GSM	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 09:02:43 EDT 2012	
	Acquisition finished: Tue Sep 18 09:16:31 EDT 2012	
	Readability and completeness of acquired data was successful	L
Results:		
	Assertion & Expected Result	Actual Result
	SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected

Test Case SPT	-04 Lantern v2.3
Analysis:	Expected results achieved

5.2.5 SPT-05 (iPhone4 GSM)

Test Case SPT	-05 Lantern v2.3		
Case Summary:	SPT-05 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMEI/MEID/ESN, MSISDN).		
Assertions:	SPT-CA-05 If a cellular forensic tool completes acquisition of the target device without error then subscriber-related information shall be presented in a useable format. SPT-CA-06 If a cellular forensic tool completes acquisition of the target device without error then equipment related information shall be presented in a useable format.		
Tester Name:	rpa		
Test Host:	p630542		
Test Date:	Tue Sep 18 10:58:14 EDT 2012		
Device:	iPhone4_GSM		
Source	OS: Mac OS X v10.6.8		
Setup:	Interface: cable		
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 10:58:14 EDT 2012 Acquisition finished: Tue Sep 18 10:59:14 EDT 2012 Subscriber and Equipment related data (i.e., MSISDN, IMEI) were acquired		
Results:			
	Assertion & Expected Result	Actual Result	
	SPT-CA-05 Acquisition of MSISDN, IMSI.	as expected	
	SPT-CA-06 Acquisition of IMEI/MEID/ESN.	as expected	
Analysis:	Expected results achieved		

5.2.6 SPT-06 (iPhone4 GSM)

Test Case SPT	-06 Lantern v2.3
Case	SPT-06 Acquire mobile device internal memory and review reported PIM
Summary:	related data.
Assertions:	SPT-CA-07 If a cellular forensic tool completes acquisition of the target
	device without error then address book entries shall be presented in a
	useable format.
	SPT-CA-08 If a cellular forensic tool completes acquisition of the target
	device without error then maximum length address book entries shall be
	presented in a useable format.
	SPT-CA-09 If a cellular forensic tool completes acquisition of the target
	device without error then address book entries containing special
	characters shall be presented in a useable format.
	SPT-CA-10 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing blank names shall
	be presented in a useable format.
	SPT-CA-11 If a cellular forensic tool completes acquisition of the target
	device without error then email addresses associated with address book entries shall be presented in a useable format.
	SPT-CA-12 If a cellular forensic tool completes acquisition of the target
	device without error then graphics associated with address book entries
	shall be presented in a useable format.
	SPT-CA-13 If a cellular forensic tool completes acquisition of the target
	device without error then datebook, calendar, note entries shall be
	presented in a useable format.
	SPT-CA-14 If a cellular forensic tool completes acquisition of the target
	device without error then maximum length datebook, calendar, note entries
	shall be presented in a useable format.

	-06 Lantern v2.3		
Cester Name:			
Cest Host:	p630542		
Cest Date:	Tue Sep 18 11:00:09 EDT 2012		
Device:	iPhone4_GSM		
Source	OS: Mac OS X v10.6.8		
Setup:	Interface: cable		
Log	Created by Lantern v2.3		
Highlights:	Acquisition started: Tue Sep 18 11:00:09 EDT 2012		
	Acquisition finished: Tue Sep 18 11:09:01 EDT 2012		
	Regular Length Address Book entries were acquired		
	Maximum Length Address Book entries were not acquired		
	Special Character Address Book entries were acquired		
	Blank Name Address Book entries were acquired		
	Email addresses within Address Book entries were acquired		
	Embedded graphics within Address Book entries were acquired		
	ALL PIM related data was acquired		
	Contact entries containing middle names only reported the fir name.	rst and last	
Results:		rst and last Actual	
Results:	name.		
Results:	name.	Actual	
Results:	name. Assertion & Expected Result SPT-CA-07 Acquisition of address book entries. SPT-CA-08 Acquisition of maximum length address book	Actual Result	
Results:	name. Assertion & Expected Result SPT-CA-07 Acquisition of address book entries. SPT-CA-08 Acquisition of maximum length address book entries.	Actual Result as expected	
Results:	name. Assertion & Expected Result SPT-CA-07 Acquisition of address book entries. SPT-CA-08 Acquisition of maximum length address book entries. SPT-CA-09 Acquisition of address book entries containing	Actual Result as expected Not as	
Results:	name. Assertion & Expected Result SPT-CA-07 Acquisition of address book entries. SPT-CA-08 Acquisition of maximum length address book entries. SPT-CA-09 Acquisition of address book entries containing special characters. SPT-CA-10 Acquisition of address book entries containing a	Actual Result as expected Not as expected	
Results:	name. Assertion & Expected Result SPT-CA-07 Acquisition of address book entries. SPT-CA-08 Acquisition of maximum length address book entries. SPT-CA-09 Acquisition of address book entries containing special characters. SPT-CA-10 Acquisition of address book entries containing a blank name entry.	Actual Result as expected Not as expected as expected as expected	
Results:	name. Assertion & Expected Result SPT-CA-07 Acquisition of address book entries. SPT-CA-08 Acquisition of maximum length address book entries. SPT-CA-09 Acquisition of address book entries containing special characters. SPT-CA-10 Acquisition of address book entries containing a blank name entry. SPT-CA-11 Acquisition of embedded email addresses within	Actual Result as expected Not as expected as expected	
Results:	name. Assertion & Expected Result SPT-CA-07 Acquisition of address book entries. SPT-CA-08 Acquisition of maximum length address book entries. SPT-CA-09 Acquisition of address book entries containing special characters. SPT-CA-10 Acquisition of address book entries containing a blank name entry. SPT-CA-11 Acquisition of embedded email addresses within address book entries.	Actual Result as expected Not as expected as expected as expected as expected	
Results:	name. Assertion & Expected Result SPT-CA-07 Acquisition of address book entries. SPT-CA-08 Acquisition of maximum length address book entries. SPT-CA-09 Acquisition of address book entries containing special characters. SPT-CA-10 Acquisition of address book entries containing a blank name entry. SPT-CA-11 Acquisition of embedded email addresses within address book entries. SPT-CA-12 Acquisition of embedded graphics within address	Actual Result as expected Not as expected as expected as expected	
Results:	name. Assertion & Expected Result SPT-CA-07 Acquisition of address book entries. SPT-CA-08 Acquisition of maximum length address book entries. SPT-CA-09 Acquisition of address book entries containing special characters. SPT-CA-10 Acquisition of address book entries containing a blank name entry. SPT-CA-11 Acquisition of embedded email addresses within address book entries. SPT-CA-12 Acquisition of embedded graphics within address book entries.	Actual Result as expected Not as expected as expected as expected as expected as expected	
Results:	name. Assertion & Expected Result SPT-CA-07 Acquisition of address book entries. SPT-CA-08 Acquisition of maximum length address book entries. SPT-CA-09 Acquisition of address book entries containing special characters. SPT-CA-10 Acquisition of address book entries containing a blank name entry. SPT-CA-11 Acquisition of embedded email addresses within address book entries. SPT-CA-12 Acquisition of embedded graphics within address book entries. SPT-CA-13 Acquisition of PIM data (i.e.,	Actual Result as expected Not as expected as expected as expected as expected	
Results:	name. Assertion & Expected Result SPT-CA-07 Acquisition of address book entries. SPT-CA-08 Acquisition of maximum length address book entries. SPT-CA-09 Acquisition of address book entries containing special characters. SPT-CA-10 Acquisition of address book entries containing a blank name entry. SPT-CA-11 Acquisition of embedded email addresses within address book entries. SPT-CA-12 Acquisition of embedded graphics within address book entries. SPT-CA-13 Acquisition of PIM data (i.e., datebook/calendar, notes).	Actual Result as expected Not as expected as expected as expected as expected as expected as expected	
Results:	name. Assertion & Expected Result SPT-CA-07 Acquisition of address book entries. SPT-CA-08 Acquisition of maximum length address book entries. SPT-CA-09 Acquisition of address book entries containing special characters. SPT-CA-10 Acquisition of address book entries containing a blank name entry. SPT-CA-11 Acquisition of embedded email addresses within address book entries. SPT-CA-12 Acquisition of embedded graphics within address book entries. SPT-CA-13 Acquisition of PIM data (i.e.,	Actual Result as expected Not as expected as expected as expected as expected as expected	
Results:	name. Assertion & Expected Result SPT-CA-07 Acquisition of address book entries. SPT-CA-08 Acquisition of maximum length address book entries. SPT-CA-09 Acquisition of address book entries containing special characters. SPT-CA-10 Acquisition of address book entries containing a blank name entry. SPT-CA-11 Acquisition of embedded email addresses within address book entries. SPT-CA-12 Acquisition of embedded graphics within address book entries. SPT-CA-13 Acquisition of PIM data (i.e., datebook/calendar, notes).	Actual Result as expected Not as expected as expected as expected as expected as expected as expected	

5.2.7 SPT-07 (iPhone4 GSM)

Test Case SPT	Test Case SPT-07 Lantern v2.3		
Case Summary:	SPT-07 Acquire mobile device internal memory and review reported call logs.		
Assertions:	SPT-CA-15 If a cellular forensic tool completes acquisition of the target device without error then call logs (incoming/outgoing/missed) shall be presented in a useable format. SPT-CA-16 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps and the duration of the call for call logs shall be presented in a useable format.		
Tester Name:	rpa		
Test Host:	p630542		
Test Date:	Tue Sep 18 11:14:57 EDT 2012		
Device:	iPhone4_GSM		
Source	OS: Mac OS X v10.6.8		
Setup:	Interface: cable		
Log	Created by Lantern v2.3		
Highlights:	Acquisition started: Tue Sep 18 11:14:57 EDT 2012		

3, 3, 3, , 1	
Assertion & Expected Result	Actual Result
SPT-CA-15 Acquisition of call logs.	as expected
SPT-CA-16 Acquisition of call log date/time stamps.	as expected
	SPT-CA-15 Acquisition of call logs.

5.2.8 SPT-08 (iPhone4 GSM)

Test Case SPT	-08 Lantern v2.3	
Case	SPT-08 Acquire mobile device internal memory and review report	rted text
Summary:	messages.	
Assertions:	SPT-CA-17 If a cellular forensic tool completes acquisition of device without error then ASCII text messages (i.e., SMS, EMS presented in a useable format. SPT-CA-18 If a cellular forensic tool completes acquisition of device without error then the corresponding date/time stamps messages shall be presented in a useable format. SPT-CA-19 If a cellular forensic tool completes acquisition of device without error then the corresponding status (i.e., rea text messages shall be presented in a useable format. SPT-CA-20 If a cellular forensic tool completes acquisition of device without error then the corresponding sender / recipien numbers for text messages shall be presented in a useable format.	S) shall be of the target for text of the target ad, unread) for of the target nt phone
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 11:16:56 EDT 2012	
Device:	iPhone4 GSM	
Source	OS: Mac OS X v10.6.8	
Setup:	US: Mac US X VIU.6.8 Interface: cable	
Secup.		
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 11:16:56 EDT 2012 Acquisition finished: Tue Sep 18 11:25:43 EDT 2012 ALL text messages (SMS, EMS) were acquired Correct date/time stamps were reported for all text messages Correct status flags were reported for all text messages Sender and Recipient phone numbers associated with text messa correctly reported	ages were
Results:	Assertion & Expected Result	Actual Result
	SPT-CA-17 Acquisition of text messages.	as expected
	SPT-CA-18 Acquisition of text message date/time stamps.	as expected
	SPT-CA-19 Acquisition of text message status flags.	as expected
	SPT-CA-20 Acquisition of sender/recipient phone number associated with text messages.	as expected
Analysis:	Expected results achieved	·

5.2.9 SPT-09 (iPhone4 GSM)

Test Case SPT-	-09 Lantern v2.3
Case	SPT-09 Acquire mobile device internal memory and review reported MMS multi-
Summary:	media related data (i.e., text, audio, graphics, video).

Test Case SPT	-09 Lantern v2.3	
Assertions:	SPT-CA-21 If a cellular forensic tool completes acquisition device without error then MMS messages and associated audic presented in a useable format. SPT-CA-22 If a cellular forensic tool completes acquisition device without error then MMS messages and associated graph be presented in a useable format. SPT-CA-23 If a cellular forensic tool completes acquisition device without error then MMS messages and associated video presented in a useable format.	o shall be n of the target nic files shall n of the target
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 11:27:14 EDT 2012	
Device:	iPhone4_GSM	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Tue Sep 18 11:27:14 EDT 2012	
	Acquisition finished: Tue Sep 18 11:30:27 EDT 2012	
	ALL MMS messages (Audio, Image, Video) were acquired	
Results:		
	Assertion & Expected Result	Actual Result
	SPT-CA-21 Acquisition of audio MMS messages.	as expected
	SPT-CA-22 Acquisition of graphic data image MMS messages.	as expected
	SPT-CA-23 Acquisition of video MMS messages.	as expected
Analysis:	Expected results achieved	

5.2.10 SPT-10 (iPhone4 GSM)

Test Case SPI	-10 Lantern v2.3
Case	SPT-10 Acquire mobile device internal memory and review reported stand-
Summary:	alone multi-media data (i.e., audio, graphics, video).
Assertions:	SPT-CA-24 If a cellular forensic tool completes acquisition of the target device without error then stand-alone audio files shall be presented in a useable format via either an internal application or suggested third-party application. SPT-CA-25 If a cellular forensic tool completes acquisition of the target device without error then stand-alone graphic files shall be presented in a useable format via either an internal application or suggested third-party application. SPT-CA-26 If a cellular forensic tool completes acquisition of the target device without error then stand-alone video files shall be presented in a useable format via either an internal application or suggested third-party application.
Tester	rpa
Name:	
Test Host:	p630542
Test Date: Device:	Tue Sep 18 11:31:42 EDT 2012 iPhone4 GSM
Source	OS: Mac OS X v10.6.8
Setup:	Interface: cable
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 11:31:42 EDT 2012 Acquisition finished: Tue Sep 18 11:38:01 EDT 2012
	ALL stand-alone data files (Audio, Image, Video) were acquired
Results:	

	Assertion & Expected Result	Actual Result
	SPT-CA-24 Acquisition of stand-alone audio files.	as expected
	SPT-CA-25 Acquisition of stand-alone graphic files.	as expected
	SPT-CA-26 Acquisition of stand-alone video files.	as expected
Analysis:	Expected results achieved	

5.2.11 SPT-12 (iPhone4 GSM)

Test Case SPT	-12 Lantern v2.3	
Case Summary:	SPT-12 Acquire mobile device internal memory and review Internet related data (i.e., bookmarks, visited sites.	
Assertions:	SPT-CA-28 If a cellular forensic tool completes acquisition of the target device without error then Internet related data (i.e., bookmarks, visited sites) cached to the device shall be acquired and presented in a useable format.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 11:52:05 EDT 2012	
Device:	iPhone4_GSM	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 11:52:05 EDT 2012 Acquisition finished: Tue Sep 18 11:52:54 EDT 2012	
	All Internet related data was acquired	
Results:		
	Assertion & Expected Result	Actual Result
	SPT-CA-28 Acquisition of Internet related data.	as expected
Analysis:	Expected results achieved	

5.2.12 SPT-13 (iPhone4 GSM)

Test Case SPT	-13 Lantern v2.3
Case	SPT-13 Acquire mobile device internal memory by selecting a combination of
Summary:	supported data elements.
Assertions:	SPT-CA-29 If a cellular forensic tool provides the user with an "Acquire All" device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. SPT-CA-30 If a cellular forensic tool provides the user with an "Select All" individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error.
Tester Name:	rpa
Test Host:	p630542
Test Date:	Tue Sep 18 11:55:03 EDT 2012
Device:	iPhone4_GSM
Source	OS: Mac OS X v10.6.8
Setup:	Interface: cable
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 11:55:03 EDT 2012
nightights.	Acquire All acquisition was successful

Results:		
Results.	Assertion & Expected Result	Actual Result
	SPT-CA-29 Acquire-All data objects acquisition.	as expected
	SPT-CA-30 Select-All data objects acquisition.	as expected
	SPT-CA-31 Select-Individual data objects acquisition.	as expected

5.2.13 SPT-24 (iPhone4 GSM)

Test Case SFI-	-24 Lantern v2.3	
Case	SPT-24 Acquire mobile device internal memory and review repo	rted data via
Summary:	supported generated report formats.	
Assertions:	SPT-A0-25 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format via supported generated report formats.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 13:24:07 EDT 2012	
Device:	iPhone4_GSM	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 13:24:07 EDT 2012	
	Acquisition finished: Tue Sep 18 13:32:48 EDT 2012	
	Complete representation of known data via generated reports	was successful
Results:		
	Assertion & Expected Result	Actual Result
	SPT-AO-25 Comparison of known device data elements via generated reports.	as expected
Analysis:	Expected results achieved	

5.2.14 SPT-25 (iPhone4 GSM)

Test Case SPT	-25 Lantern v2.3	
Case Summary:	SPT-25 Acquire mobile device internal memory and review report the preview pane.	rted data via
Assertions:	SPT-AO-26 If a cellular forensic tool completes acquisition of the target	
ASSERTIONS	device without error then the tool shall present the acquired data in a useable format in a preview pane view.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 13:33:13 EDT 2012	
Device:	iPhone4_GSM	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Tue Sep 18 13:33:13 EDT 2012	
	Acquisition finished: Tue Sep 18 13:33:52 EDT 2012	
	Complete representation of known data via preview pane was s	uccessful
Results:		
	Assertion & Expected Result	Actual
		Result

	-25 Lantern v2.3 SPT-AO-26 Comparison of known device data elements via preview-pane.	as expected
Analysis:	Expected results achieved	

5.2.15 SPT-33 (iPhone4 GSM)

Test Case SPT	-33 Lantern v2.3	
Case	SPT-33 Acquire mobile device internal memory and review	data containing
Summary:	non-ASCII characters.	
Assertions:	SPT-AO-40 If the cellular forensic tool supports display	
	characters then the application should present address h	oook entries in
	their native format.	
	SPT-AO-41 If the cellular forensic tool supports proper	
	ASCII characters then the application should present tex	t messages in their
	native format.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 13:34:35 EDT 2012	
Device:	iPhone4_GSM	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Tue Sep 18 13:34:35 EDT 2012	
	Acquisition finished: Tue Sep 18 13:35:22 EDT 2012	
	Non-ASCII Address book entries were acquired and properl	
	Non-ASCII text messages were acquired and properly displ	ayed
Results:		
	Assertion & Expected Result	Actual
		Result
	SPT-AO-40 Acquisition of non-ASCII address book	as expected
	entries/ADNs.	
	SPT-AO-41 Acquisition of non-ASCII text messages.	as expected
Analysis:	Expected results achieved	
<u> </u>		

5.2.16 SPT-38 (iPhone4 GSM)

Test Case SPT-	Test Case SPT-38 Lantern v2.3		
Case	SPT-38 Acquire mobile device internal memory and review hash values for		
Summary:	vendor supported data objects.		
Assertions:	SPT-AO-43 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.		
Tester Name:	rpa		
Test Host:	p630542		
Test Date:	Tue Sep 18 13:38:26 EDT 2012		
Device:	iPhone4_GSM		
Source	OS: Mac OS X v10.6.8		
Setup:	Interface: cable		
Log	Created by Lantern v2.3		
Highlights:	Acquisition started: Tue Sep 18 13:38:26 EDT 2012		
	Acquisition finished: Tue Sep 18 13:40:36 EDT 2012		
	Hash values were properly reported for individually acquired device data elements		

Results:		
	Assertion & Expected Result	Actual Result
	SPT-AO-43 Acquire data, check known hash values for consistency.	as expected
Analysis:	Expected results achieved	

5.2.17 SPT-40 (iPhone4 GSM)

Test Case SPT	-40 Lantern v2.3	
Case	SPT-40 Acquire mobile device internal memory and review data containing GPS	
Summary:	longitude and latitude coordinates.	
Assertions:	ns: SPT-AO-44 If the cellular forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 13:41:50 EDT 2012	
Device:	iPhone4_GSM	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Tue Sep 18 13:41:50 EDT 2012	
	Acquisition finished: Tue Sep 18 13:43:25 EDT 2012	
	GPS Coordinate data was successfully acquired	
Results:		
	Assertion & Expected Result Actual Result	t
	SPT-AO-44 Acquire data, check GPS data for consistency. as expected	
Analysis:	Expected results achieved	

5.2.18 SPT-01 (iPhone4 CDMA)

Test Case SPT	-01 Lantern v2.3
Case	SPT-01 Acquire mobile device internal memory over tool-supported interfaces
Summary:	(e.g., cable, Bluetooth, IrDA).
Assertions:	SPT-CA-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). SPT-CA-04 If a cellular forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview pane or generated report. SPT-CA-29 If a cellular forensic tool provides the user with an "Acquire All" device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. SPT-CA-30 If a cellular forensic tool provides the user with a "Select All" individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error. SPT-CA-32 If a cellular forensic tool provides the user with the ability to "Select Individual" device data object without error. SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.
Tester Name:	rpa

Test Case SPI	2-01 Lantern v2.3	
Test Host:	p630542	
Test Date:	Tue Sep 18 13:45:18 EDT 2012	
Device:	iPhone4_CDMA	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Tue Sep 18 13:45:18 EDT 2012	
	Acquisition finished: Tue Sep 18 13:49:03 EDT 2012	
_	Device connectivity was established via supported interface	
Results:	Assertion & Expected Result	Actual
Results:	Assertion & Expected Result	Actual Result
Results:	Assertion & Expected Result SPT-CA-01 Device connectivity via supported interfaces.	
Results:		Result
Results:	SPT-CA-01 Device connectivity via supported interfaces. SPT-CA-04 Readability and completeness of acquired data via	Result as expected
Results:	SPT-CA-01 Device connectivity via supported interfaces. SPT-CA-04 Readability and completeness of acquired data via supported reports.	Result as expected as expected
Results:	SPT-CA-01 Device connectivity via supported interfaces. SPT-CA-04 Readability and completeness of acquired data via supported reports. SPT-CA-29 Acquire-All data objects acquisition.	Result as expected as expected as expected
Results:	SPT-CA-01 Device connectivity via supported interfaces. SPT-CA-04 Readability and completeness of acquired data via supported reports. SPT-CA-29 Acquire-All data objects acquisition. SPT-CA-30 Select-All data objects acquisition. SPT-CA-31 Select-Individual data objects acquisition. SPT-CA-32 Perform back-to-back acquisitions, check device	Result as expected as expected as expected as expected
Results:	SPT-CA-01 Device connectivity via supported interfaces. SPT-CA-04 Readability and completeness of acquired data via supported reports. SPT-CA-29 Acquire-All data objects acquisition. SPT-CA-30 Select-All data objects acquisition. SPT-CA-31 Select-Individual data objects acquisition.	Result as expected as expected as expected as expected as expected
Results:	SPT-CA-01 Device connectivity via supported interfaces. SPT-CA-04 Readability and completeness of acquired data via supported reports. SPT-CA-29 Acquire-All data objects acquisition. SPT-CA-30 Select-All data objects acquisition. SPT-CA-31 Select-Individual data objects acquisition. SPT-CA-32 Perform back-to-back acquisitions, check device	Result as expected as expected as expected as expected as expected

5.2.19 SPT-02 (iPhone4 CDMA)

Case	SPT-02 Attempt internal memory acquisition of a nonsupported mobile device.	
Summary:		
Assertions:	SPT-CA-02 If a cellular forensic tool attempts to connect to a nonsupported device then the tool shall notify the user that the device is not supported.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 13:50:14 EDT 2012	
Device:	unsupported_device	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Tue Sep 18 13:50:14 EDT 2012	
	Acquisition finished: Tue Sep 18 13:53:05 EDT 2012	
	Identification of nonsupported devices was not successful	
	Notes:	
	Acquisition of nonsupported devices (i.e., iPod Nano) did not provide an	
	error message stating the device was not supported.	
Results:		
	Assertion & Expected Result Actual Result	
	SPT-CA-02 Identification of nonsupported devices. Not as expected	
	Expected results not achieved	

5.2.20 SPT-03 (iPhone4 CDMA)

Test Case SPT-03 Lantern v2.3

Case SPT-03 Begin mobile device internal memory acquisition and interrupt

	-03 Lantern v2.3 connectivity by interface disengagement.	
Summary:		
Assertions:	SPT-CA-03 If connectivity between the mobile device and ce	
	tool is disrupted then the tool shall notify the user that	connectivity has
	been disrupted.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 13:54:14 EDT 2012	
Device:	iPhone4_CDMA	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Tue Sep 18 13:54:14 EDT 2012	
	Acquisition finished: Tue Sep 18 13:55:32 EDT 2012	
	Device acquisition disruption notification was successful	
Results:		
	Assertion & Expected Result	Actual Result
	SPT-CA-03 Notification of device acquisition disruption.	as expected
Analysis:	Expected results achieved	

5.2.21 SPT-04 (iPhone4 CDMA)

Test Case SP	I-04 Lantern v2.3	
Case	SPT-04 Acquire mobile device internal memory and review repor	ted data via
Summary:	the preview pane or generated reports for readability.	
Assertions:	SPT-CA-04 If a cellular forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview pane or generated report.	
Tester	rpa	
Name:		
Test Host:	p630542	
Test Date:	Tue Sep 18 14:01:18 EDT 2012	
Device:	iPhone4_CDMA	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Tue Sep 18 14:01:18 EDT 2012	
	Acquisition finished: Tue Sep 18 14:02:30 EDT 2012	
	Readability and completeness of acquired data was successful	
Results:		
	Assertion & Expected Result	Actual Result
	SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected
Analysis:	Expected results achieved	

5.2.22 SPT-05 (iPhone4 CDMA)

Test Case SPT-05 Lantern v2.3		
Case	SPT-05 Acquire mobile device internal memory and review reported subscriber	
Summary:	and equipment related information (e.g., IMEI/MEID/ESN, MSISDN).	
Assertions:	SPT-CA-05 If a cellular forensic tool completes acquisition of the target	

Test Case SPT	-05 Lantern v2.3	
	device without error then subscriber-rela in a useable format. SPT-CA-06 If a cellular forensic tool com device without error then equipment relat in a useable format.	pletes acquisition of the target
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 14:12:08 EDT 2012	
Device:	iPhone4_CDMA	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:12:08 Acquisition finished: Tue Sep 18 14:12:46 IMEI, MEID/ESN were not acquired	
Results:	Assertion & Expected Result SPT-CA-05 Acquisition of MSISDN, IMSI. SPT-CA-06 Acquisition of IMEI/MEID/ESN.	Actual Result Not as expected Not as expected
Analysis:	Expected results not achieved	

5.2.23 SPT-06 (iPhone4 CDMA)

Test Case SPT	SPT-06 Acquire mobile device internal memory and review reported PIM
Case	
Summary:	related data.
Assertions:	SPT-CA-07 If a cellular forensic tool completes acquisition of the target device without error then address book entries shall be presented in a useable format. SPT-CA-08 If a cellular forensic tool completes acquisition of the target device without error then maximum length address book entries shall be presented in a useable format. SPT-CA-09 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing special characters shall be presented in a useable format. SPT-CA-10 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing blank names shall be presented in a useable format. SPT-CA-11 If a cellular forensic tool completes acquisition of the target device without error then email addresses associated with address book entries shall be presented in a useable format. SPT-CA-12 If a cellular forensic tool completes acquisition of the target device without error then graphics associated with address book entries shall be presented in a useable format. SPT-CA-13 If a cellular forensic tool completes acquisition of the target device without error then graphics associated with address book entries shall be presented in a useable format. SPT-CA-13 If a cellular forensic tool completes acquisition of the target device without error then datebook, calendar, note entries shall be presented in a useable format. SPT-CA-14 If a cellular forensic tool completes acquisition of the target device without error then maximum length datebook, calendar, note entries shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p630542
Test Date:	Tue Sep 18 14:14:40 EDT 2012
Device:	iPhone4_CDMA
Source	OS: Mac OS X v10.6.8
Setup:	Interface: cable
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:14:40 EDT 2012

Test Case SPT-	-06 Lantern v2.3	
	Regular Length Address Book entries were acquired Maximum Length Address Book entries were not acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired Embedded graphics within Address Book entries were acquired ALL PIM related data was acquired Motes: Contact entries containing middle names only reported the fin name.	rst and last
Results:	Assertion & Expected Result SPT-CA-07 Acquisition of address book entries. SPT-CA-08 Acquisition of maximum length address book entries. SPT-CA-09 Acquisition of address book entries containing special characters. SPT-CA-10 Acquisition of address book entries containing a blank name entry. SPT-CA-11 Acquisition of embedded email addresses within address book entries. SPT-CA-12 Acquisition of embedded graphics within address book entries. SPT-CA-13 Acquisition of PIM data (i.e., datebook/calendar, notes). SPT-CA-14 Acquisition of maximum length PIM data.	Actual Result as expected Not as expected as expected as expected as expected as expected as expected as expected as expected
Analysis:	Partial results achieved	

5.2.24 SPT-07 (iPhone4 CDMA)

Case	SPT-07 Acquire mobile device internal memory and revi	ew reported call logs
Summary:	bit of Acquire mobile device internal memory and ievi	ew reported carr rogs.
Assertions:	SPT-CA-15 If a cellular forensic tool completes acqui device without error then call logs (incoming/outgoin presented in a useable format. SPT-CA-16 If a cellular forensic tool completes acqui device without error then the corresponding date/time duration of the call for call logs shall be presented	g/missed) shall be sition of the target stamps and the
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 14:16:40 EDT 2012	
Device:	iPhone4_CDMA	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Tue Sep 18 14:16:40 EDT 2012	
	Acquisition finished: Tue Sep 18 14:18:17 EDT 2012	
	All Call Logs (incoming, outgoing, missed) were acqui	
	All Call Log date/time stamps data were correctly rep	orted
Results:		
	Assertion & Expected Result	Actual Result
	SPT-CA-15 Acquisition of call logs.	as expected
	SPT-CA-16 Acquisition of call log date/time stamps.	as expected

Test Case SPT-07 Lantern v2.3Analysis:Expected results achieved

5.2.25 SPT-08 (iPhone4 CDMA)

Test Case SPT	-08 Lantern v2.3	
Case	SPT-08 Acquire mobile device internal memory and review repor	ted text
Summary:	messages.	
Assertions:	SPT-CA-17 If a cellular forensic tool completes acquisition of device without error then ASCII text messages (i.e., SMS, EMS presented in a useable format. SPT-CA-18 If a cellular forensic tool completes acquisition of device without error then the corresponding date/time stamps messages shall be presented in a useable format. SPT-CA-19 If a cellular forensic tool completes acquisition of device without error then the corresponding status (i.e., rea text messages shall be presented in a useable format. SPT-CA-20 If a cellular forensic tool completes acquisition of device without error then the corresponding sender / recipier numbers for text messages shall be presented in a useable for	<pre>s) shall be of the target for text of the target id, unread) for of the target it phone</pre>
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 14:19:39 EDT 2012	
Device:	iPhone4 CDMA	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:19:39 EDT 2012 Acquisition finished: Tue Sep 18 14:20:52 EDT 2012 ALL text messages (SMS, EMS) were acquired Correct date/time stamps were reported for all text messages Correct status flags were reported for all text messages Sender and Recipient phone numbers associated with text messa correctly reported	ges were
Results:	Assertion & Expected Result	Actual Result
	SPT-CA-17 Acquisition of text messages.	as expected
	SPT-CA-18 Acquisition of text message date/time stamps.	as expected
	SPT-CA-19 Acquisition of text message status flags.	as expected
	SPT-CA-20 Acquisition of sender/recipient phone number associated with text messages.	as expected
Analysis:	Expected results achieved	

5.2.26 SPT-09 (iPhone4 CDMA)

Test Case SPT	-09 Lantern v2.3
Case	SPT-09 Acquire mobile device internal memory and review reported MMS multi-
Summary:	media related data (i.e., text, audio, graphics, video).
Assertions:	SPT-CA-21 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated audio shall be presented in a useable format. SPT-CA-22 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated graphic files shall be presented in a useable format. SPT-CA-23 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated vial be presented in a useable format.
Tester Name:	rpa

February 2013

Test Host:	p630542	
Test Date:	Tue Sep 18 14:20:41 EDT 2012	
Device:	iPhone4_CDMA	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Tue Sep 18 14:20:41 EDT 2012	
	A number of the state of the st	
	Acquisition finished: Tue Sep 18 14:21:49 EDT 2012	
Results:	Acquisition finished: Tue Sep 18 14:21:49 EDT 2012 ALL MMS messages (Audio, Image, Video) were acquired	
Results:		Actual Result
Results:	ALL MMS messages (Audio, Image, Video) were acquired	
Results:	ALL MMS messages (Audio, Image, Video) were acquired Assertion & Expected Result	Result

5.2.27 SPT-10 (iPhone4 CDMA)

Test Case SPI	-10 Lantern v2.3	
Case Summary:	SPT-10 Acquire mobile device internal memory and revi alone multi-media data (i.e., audio, graphics, video)	
Assertions:	SPT-CA-24 If a cellular forensic tool completes acqui device without error then stand-alone audio files sha useable format via either an internal application or application. SPT-CA-25 If a cellular forensic tool completes acqui device without error then stand-alone graphic files s useable format via either an internal application or application. SPT-CA-26 If a cellular forensic tool completes acqui device without error then stand-alone video files sha useable format via either an internal application or application.	<pre>11 be presented in a suggested third-party sition of the target hall be presented in a suggested third-party sition of the target 11 be presented in a</pre>
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 14:22:21 EDT 2012	
Device:	iPhone4_CDMA	
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Tue Sep 18 14:22:21 EDT 2012	
	Acquisition finished: Tue Sep 18 14:24:39 EDT 2012	
	ALL stand-alone data files (Audio, Image, Video) were	acquired
Results:		
	Assertion & Expected Result	Actual Result
	SPT-CA-24 Acquisition of stand-alone audio files.	as expected
	SPT-CA-25 Acquisition of stand-alone graphic files.	as expected
	SPT-CA-26 Acquisition of stand-alone video files.	as expected
Analysis:	Expected results achieved	

5.2.28 SPT-12 (iPhone4 CDMA)

Tost Caso CDT	-12 Lantern v2.3		
Case			
	SPT-12 Acquire mobile device internal memory and review Internet related data (i.e., bookmarks, visited sites.		
Summary:			
Assertions:	SPT-CA-28 If a cellular forensic tool completes acquisition of the target		
	device without error then Internet related data (i.e., bookmarks, visited		
	sites) cached to the device shall be acquired and presented in a useable		
	format.		
Tester Name:	rpa		
Test Host:	p630542		
Test Date:	Tue Sep 18 14:27:08 EDT 2012		
Device:	iPhone4_CDMA		
Source	OS: Mac OS X v10.6.8		
Setup:	Interface: cable		
Log	Created by Lantern v2.3		
Highlights:	Acquisition started: Tue Sep 18 14:27:08 EDT 2012		
	Acquisition finished: Tue Sep 18 14:27:50 EDT 2012		
	All Internet related data was acquired		
Results:			
	Assertion & Expected Result Actual Result		
	SPT-CA-28 Acquisition of Internet related data. as expected		
Analysis:	Expected results achieved		

5.2.29 SPT-13 (iPhone4 CDMA)

Test Case SPT	-13 Lantern v2.3	
Case	SPT-13 Acquire mobile device internal memory by selecti	ng a combination of
Summary:	supported data elements.	
Assertions:	SPT-CA-29 If a cellular forensic tool provides the user with an "Acquire All" device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. SPT-CA-30 If a cellular forensic tool provides the user with an "Select All" individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 14:25:36 EDT 2012	
Device:	iPhone4_CDMA	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:25:36 EDT 2012	
HIGHLIGHUS.	Acquisition finished: Tue Sep 18 14:26:25 EDT 2012 Acquisition finished: Tue Sep 18 14:26:25 EDT 2012	
	Acquire All acquisition was successful	
Results:		
	Assertion & Expected Result Actual Result	
	SPT-CA-29 Acquire-All data objects acquisition.	as expected
	SPT-CA-30 Select-All data objects acquisition.	as expected
	SPT-CA-31 Select-Individual data objects acquisition.	as expected
Analysis:	Expected results achieved	
±	-	

5.2.30 SPT-24 (iPhone4 CDMA)

Test Case SPT	-24 Lantern v2.3	
Case Summary:	SPT-24 Acquire mobile device internal memory and review reported generated report formats.	orted data via
Assertions:	SAPPOILEd generated report formats. SPT-AO-25 If a cellular forensic tool completes acquisition device without error then the tool shall present the acquire useable format via supported generated report formats.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 14:28:22 EDT 2012	
Device:	iPhone4_CDMA	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:28:22 EDT 2012 Acquisition finished: Tue Sep 18 14:31:19 EDT 2012 Complete representation of known data via generated reports	was successful
Results:		
	Assertion & Expected Result	Actual Result
	SPT-A0-25 Comparison of known device data elements via generated reports.	as expected
Analysis:	Expected results achieved	

5.2.31 SPT-25 (iPhone4 CDMA)

Test Case SPT	-25 Lantern v2.3	
Case Summary:	SPT-25 Acquire mobile device internal memory and review report the preview pane.	rted data via
Assertions:	SPT-AO-26 If a cellular forensic tool completes acquisition device without error then the tool shall present the acquire useable format in a preview pane view.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 14:28:58 EDT 2012	
Device:	iPhone4_CDMA	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:28:58 EDT 2012 Acquisition finished: Tue Sep 18 14:31:37 EDT 2012 Complete representation of known data via preview pane was s	uccessful
Results:		
	Assertion & Expected Result	Actual Result
	SPT-AO-26 Comparison of known device data elements via preview-pane.	as expected
Analysis:	Expected results achieved	

5.2.32 SPT-33 (iPhone4 CDMA)

Test Case SPT-33 Lantern v2.3

Case SPT-33 Acquire mobile device internal memory and review data containing

Test Case SPI	-33 Lantern v2.3	
Summary:	non-ASCII characters.	
Assertions:	SPT-AO-40 If the cellular forensic tool supports displa characters then the application should present address their native format. SPT-AO-41 If the cellular forensic tool supports proper ASCII characters then the application should present te native format.	book entries in display of non-
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 14:34:06 EDT 2012	
Device:	iPhone4_CDMA	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:34:06 EDT 2012 Acquisition finished: Tue Sep 18 14:39:08 EDT 2012 Non-ASCII Address book entries were acquired and properly displayed Non-ASCII text messages were acquired and properly displayed	
Results:		
	Assertion & Expected Result	Actual Result
	SPT-AO-40 Acquisition of non-ASCII address book entries/ADNs.	as expected
	SPT-AO-41 Acquisition of non-ASCII text messages.	as expected
Analysis:	Expected results achieved	

5.2.33 SPT-38 (iPhone4 CDMA)

Test Case SPT	-38 Lantern v2.3	
Case Summary:	SPT-38 Acquire mobile device internal memory and review have vendor supported data objects.	ash values for
Assertions:	SPT-AO-43 If the cellular forensic tool supports hashing f data objects then the tool shall present the user with a h each supported data object.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 14:34:40 EDT 2012	
Device:	iPhone4_CDMA	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:34:40 EDT 2012 Acquisition finished: Tue Sep 18 14:39:40 EDT 2012 Hash values were properly reported for individually acquired device data elements	
Results:	Assertion & Expected Result	Actual Result
	SPT-AO-43 Acquire data, check known hash values for consistency.	as expected
Analysis:	Expected results achieved	

5.2.34 SPT-40 (iPhone4 CDMA)

Test Case SPT	-40 Lantern v2.3	
Case Summary:	SPT-40 Acquire mobile device internal memory and review d longitude and latitude coordinates.	ata containing GPS
Assertions:	SPT-AO-44 If the cellular forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 14:35:11 EDT 2012	
Device:	iPhone4_CDMA	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:35:11 EDT 2012	
	Acquisition finished: Tue Sep 18 14:40:34 EDT 2012 GPS Coordinate data was successfully acquired	
Results:		
	Assertion & Expected Result	Actual Result
	SPT-AO-44 Acquire data, check GPS data for consistency.	as expected
Analysis:	Expected results achieved	

5.2.35 SPT-01 (iPhone 3.1.2)

Test Case SPI	-01 Lantern v2.3
Case	SPT-01 Acquire mobile device internal memory over tool-supported interfaces
Summary:	(e.g., cable, Bluetooth, IrDA).
Assertions:	SPT-CA-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). SPT-CA-04 If a cellular forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview pane or generated report. SPT-CA-29 If a cellular forensic tool provides the user with an "Acquire All" device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. SPT-CA-30 If a cellular forensic tool provides the user with a "Select All" individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error. SPT-CA-32 If a cellular forensic tool provides the user with the ability to "Select Individual" device data object without error. SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.
Tester	rpa
Name:	
Test Host:	p630542
Test Date:	Wed Sep 19 07:38:46 EDT 2012
Device:	iPhone_3.1.2
Source	OS: Mac OS X v10.6.8
Setup:	Interface: cable
Log	Created by Lantern v2.3
Highlights:	Acquisition started: Wed Sep 19 07:38:46 EDT 2012
	Acquisition finished: Wed Sep 19 07:45:58 EDT 2012
	Device connectivity was established via supported interface

Results:		
	Assertion & Expected Result	Actual Result
	SPT-CA-01 Device connectivity via supported interfaces.	as expected
	SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected
	SPT-CA-29 Acquire-All data objects acquisition.	as expected
	SPT-CA-30 Select-All data objects acquisition.	as expected
	SPT-CA-31 Select-Individual data objects acquisition.	as expected
	SPT-CA-32 Perform back-to-back acquisitions, check device payload for modifications.	as expected
Analysis:	Expected results achieved	

5.2.36 SPT-02 (iPhone 3.1.2)

Test Case SPT	-02 Lantern v2.3
Case Summary:	SPT-02 Attempt internal memory acquisition of a nonsupported mobile device.
Assertions:	SPT-CA-02 If a cellular forensic tool attempts to connect to a nonsupported device then the tool shall notify the user that the device is not supported.
Tester Name:	rpa
Test Host:	p630542
Test Date:	Wed Sep 19 07:59:19 EDT 2012
Device:	unsupported_device
Source	OS: Mac OS X v10.6.8
Setup:	Interface: cable
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 07:59:19 EDT 2012 Acquisition finished: Wed Sep 19 08:01:57 EDT 2012 Identification of nonsupported devices was not successful Notes: Acquisition of nonsupported devices (i.e., iPod Nano) did not provide an error message stating the device was not supported.
Results:	Assertion & Expected Result Actual Result SPT-CA-02 Identification of nonsupported devices. Not as expected
Analysis:	Expected results not achieved

5.2.37 SPT-03 (iPhone 3.1.2)

Test Case SPT-	Test Case SPT-03 Lantern v2.3	
Case	SPT-03 Begin mobile device internal memory acquisition and interrupt	
Summary:	connectivity by interface disengagement.	
Assertions:	SPT-CA-03 If connectivity between the mobile device and cellular forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 08:11:06 EDT 2012	
Device:	iPhone_3.1.2	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	

Test Case SPT	-03 Lantern v2.3	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:11:06 EDT 2012 Acquisition finished: Wed Sep 19 08:12:51 EDT 2012 Device acquisition disruption notification was successful	
Results:		
	Assertion & Expected Result	Actual Result
	SPT-CA-03 Notification of device acquisition disruption.	as expected
Analysis:	Expected results achieved	

5.2.38 SPT-04 (iPhone 3.1.2)

Test Case SP	I-04 Lantern v2.3	
Case Summary:	SPT-04 Acquire mobile device internal memory and review report the preview pane or generated reports for readability.	ted data via
Assertions:	SPT-CA-04 If a cellular forensic tool completes acquisition of device without error then the tool shall have the ability to acquired data objects in a useable format via either a previe generated report.	present
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 08:13:52 EDT 2012	
Device:	iPhone_3.1.2	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:13:52 EDT 2012 Acquisition finished: Wed Sep 19 08:15:18 EDT 2012	
	Readability and completeness of acquired data was successful	
Results:	Assertion & Expected Result	Actual Result
	SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected
Analysis:	Expected results achieved	

5.2.39 SPT-05 (iPhone 3.1.2)

Test Case SPT	-05 Lantern v2.3
Case	SPT-05 Acquire mobile device internal memory and review reported subscriber
Summary:	and equipment related information (e.g., IMEI/MEID/ESN, MSISDN).
Assertions:	SPT-CA-05 If a cellular forensic tool completes acquisition of the target device without error then subscriber-related information shall be presented in a useable format. SPT-CA-06 If a cellular forensic tool completes acquisition of the target device without error then equipment related information shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p630542
Test Date:	Wed Sep 19 08:16:13 EDT 2012
Device:	iPhone_3.1.2
Source	OS: Mac OS X v10.6.8
Setup:	Interface: cable

Test Case SPI	2-05 Lantern v2.3			
Log	Created by Lantern v2.3			
Highlights:	Acquisition started: Wed Sep 19 08:16:13 EDT 2012			
	Acquisition finished: Wed Sep 19 08:17:04 EDT 2012			
	Subscriber and Equipment related data (i.e., MSISDN, IMEI) were acquired			
Results:				
	Assertion & Expected Result	Actual Result		
	SPT-CA-05 Acquisition of MSISDN, IMSI.	as expected		
	SPT-CA-06 Acquisition of IMEI/MEID/ESN.	as expected		
Analysis:	Expected results achieved			

5.2.40 SPT-06 (iPhone 3.1.2)

Test Case SPT	-06 Lantern v2.3
Case	SPT-06 Acquire mobile device internal memory and review reported PIM
Summary:	related data.
Assertions:	SPT-CA-07 If a cellular forensic tool completes acquisition of the target device without error then address book entries shall be presented in a useable format. SPT-CA-08 If a cellular forensic tool completes acquisition of the target device without error then maximum length address book entries shall be presented in a useable format. SPT-CA-09 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing special characters shall be presented in a useable format. SPT-CA-10 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing blank names shall be presented in a useable format. SPT-CA-11 If a cellular forensic tool completes acquisition of the target device without error then email addresses associated with address book entries shall be presented in a useable format. SPT-CA-12 If a cellular forensic tool completes acquisition of the target device without error then email addresses associated with address book entries shall be presented in a useable format. SPT-CA-12 If a cellular forensic tool completes acquisition of the target device without error then graphics associated with address book entries shall be presented in a useable format. SPT-CA-13 If a cellular forensic tool completes acquisition of the target device without error then datebook, calendar, note entries shall be presented in a useable format. SPT-CA-14 If a cellular forensic tool completes acquisition of the target device without error then maximum length datebook, calendar, note entries shall be presented in a useable format.
manta Nama I	
Tester Name:	rpa
Test Host:	p630542
Test Date:	Wed Sep 19 08:17:40 EDT 2012
Device:	iPhone_3.1.2
Source	OS: Mac OS X v10.6.8
Setup:	Interface: cable
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:17:40 EDT 2012 Acquisition finished: Wed Sep 19 08:19:02 EDT 2012 Regular Length Address Book entries were acquired Maximum Length Address Book entries were not acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired
	Embedded graphics within Address Book entries were acquired ALL PIM related data was acquired Notes: Contact entries containing middle names only reported the first and last name.

Assertion & Expected Result	Actual Result
SPT-CA-07 Acquisition of address book entries.	as expected
SPT-CA-08 Acquisition of maximum length address book entries.	Not as expected
SPT-CA-09 Acquisition of address book entries containing special characters.	as expected
SPT-CA-10 Acquisition of address book entries containing a blank name entry.	as expected
SPT-CA-11 Acquisition of embedded email addresses within address book entries.	as expected
SPT-CA-12 Acquisition of embedded graphics within address book entries.	as expected
SPT-CA-13 Acquisition of PIM data (i.e., datebook/calendar, notes).	as expected
SPT-CA-14 Acquisition of maximum length PIM data.	as expected

5.2.41 SPT-07 (iPhone 3.1.2)

Test Case SPT	-07 Lantern v2.3		
Case	SPT-07 Acquire mobile device internal memory and revi	ew reported call logs.	
Summary:			
Assertions:	SPT-CA-15 If a cellular forensic tool completes acquisition of the target device without error then call logs (incoming/outgoing/missed) shall be presented in a useable format. SPT-CA-16 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps and the duration of the call for call logs shall be presented in a useable format.		
Tester Name:	rpa		
Test Host:	p630542		
Test Date:	Wed Sep 19 08:21:26 EDT 2012		
Device:	iPhone_3.1.2		
Source	OS: Mac OS X v10.6.8		
Setup:	Interface: cable		
Log	Created by Lantern v2.3		
Highlights:	Acquisition started: Wed Sep 19 08:21:26 EDT 2012		
	Acquisition finished: Wed Sep 19 08:22:37 EDT 2012		
	All Call Logs (incoming, outgoing, missed) were acqui	red	
	All Call Log date/time stamps data were correctly rep		
Results:			
	Assertion & Expected Result	Actual Result	
	SPT-CA-15 Acquisition of call logs.	as expected	
	SPT-CA-16 Acquisition of call log date/time stamps.	as expected	
Analysis:	Expected results achieved		

5.2.42 SPT-08 (iPhone 3.1.2)

Test Case SPT	-08 Lantern v2.3
Case	SPT-08 Acquire mobile device internal memory and review reported text
Summary:	messages.
Assertions:	SPT-CA-17 If a cellular forensic tool completes acquisition of the target device without error then ASCII text messages (i.e., SMS, EMS) shall be presented in a useable format. SPT-CA-18 If a cellular forensic tool completes acquisition of the target

Test Case SPT	-08 Lantern v2.3	
	device without error then the corresponding date/time stamps messages shall be presented in a useable format. SPT-CA-19 If a cellular forensic tool completes acquisition of device without error then the corresponding status (i.e., rea text messages shall be presented in a useable format. SPT-CA-20 If a cellular forensic tool completes acquisition of device without error then the corresponding sender / recipier numbers for text messages shall be presented in a useable for	of the target d, unread) for of the target ut phone
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 08:29:26 EDT 2012	
Device:	iPhone_3.1.2	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:29:26 EDT 2012 Acquisition finished: Wed Sep 19 08:30:43 EDT 2012 ALL text messages (SMS, EMS) were acquired Correct date/time stamps were reported for all text messages Correct status flags were reported for all text messages Sender and Recipient phone numbers associated with text messages were correctly reported	
Results:	Assertion & Expected Result	Actual Result
	SPT-CA-17 Acquisition of text messages.	as expected
	SPT-CA-18 Acquisition of text message date/time stamps.	as expected
	SPT-CA-19 Acquisition of text message status flags.	as expected
	SPT-CA-20 Acquisition of sender/recipient phone number associated with text messages.	as expected
	associated with text messages.	<u> </u>
Analysis:	Expected results achieved	

5.2.43 SPT-09 (iPhone 3.1.2)

Test Case SPT	-09 Lantern v2.3	
Case	SPT-09 Acquire mobile device internal memory and review reported MMS multi-	
Summary:	media related data (i.e., text, audio, graphics, video).	
Assertions:	SPT-CA-21 If a cellular forensic tool completes acquisition of the target	
	device without error then MMS messages and associated audio shall be	
	presented in a useable format.	
	SPT-CA-22 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated graphic files shall	
	be presented in a useable format.	
	SPT-CA-23 If a cellular forensic tool completes acquisition of the target	
	device without error then MMS messages and associated video shall be	
	presented in a useable format.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 08:31:29 EDT 2012	
Device:	iPhone_3.1.2	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Wed Sep 19 08:31:29 EDT 2012	
	Acquisition finished: Wed Sep 19 08:32:40 EDT 2012	
	ALL MMS messages (Audio, Image, Video) were acquired	
Results:		

	Result
SPT-CA-21 Acquisition of audio MMS messages.	as expected
SPT-CA-22 Acquisition of graphic data image MMS messages.	as expected
SPT-CA-23 Acquisition of video MMS messages.	as expected

5.2.44 SPT-10 (iPhone 3.1.2)

Test Case SP1	I-10 Lantern v2.3		
Case	SPT-10 Acquire mobile device internal memory and review reported stand-		
Summary:	alone multi-media data (i.e., audio, graphics, video).		
Assertions:	SPT-CA-24 If a cellular forensic tool completes acquisition of the target device without error then stand-alone audio files shall be presented in a useable format via either an internal application or suggested third-party application. SPT-CA-25 If a cellular forensic tool completes acquisition of the target device without error then stand-alone graphic files shall be presented in a useable format via either an internal application or suggested third-party application. SPT-CA-26 If a cellular forensic tool completes acquisition of the target device without error then stand-alone video files shall be presented in a useable format via either an internal application or suggested third-party application.		
Tester	rpa		
Name:	1 pu		
Test Host:	p630542		
Test Date:	Wed Sep 19 08:33:23 EDT 2012	1	
Device:	iPhone_3.1.2		
Source	OS: Mac OS X v10.6.8		
Setup:	Interface: cable		
Log	Created by Lantern v2.3		
Highlights:	Acquisition started: Wed Sep 19 08:33:23 EDT 2012		
	Acquisition finished: Wed Sep 19 08:34:42 EDT 2012		
	ALL stand-alone data files (Audio, Image, Video) were acquired		
Results:			
	Assertion & Expected Result	Actual Result	
	SPT-CA-24 Acquisition of stand-alone audio files.	as expected	
	SPT-CA-25 Acquisition of stand-alone graphic files.	as expected	
	SPT-CA-26 Acquisition of stand-alone video files.	as expected	
Analysis:	Expected results achieved		

5.2.45 SPT-12 (iPhone 3.1.2)

Test Case SPT-12 Lantern v2.3		
Case	SPT-12 Acquire mobile device internal memory and review Internet related	
Summary:	data (i.e., bookmarks, visited sites.	
Assertions:	SPT-CA-28 If a cellular forensic tool completes acquisition of the target device without error then Internet related data (i.e., bookmarks, visited sites) cached to the device shall be acquired and presented in a useable format.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 08:36:26 EDT 2012	

Test Case SP	I-12 Lantern v2.3		
Device:	iPhone_3.1.2		
Source	OS: Mac OS X v10.6.8		
Setup:	Interface: cable		
Log	Created by Lantern v2.3		
Highlights:	Acquisition started: Wed Sep 19 08:36:26 EDT 2012		
	Acquisition finished: Wed Sep 19 08:39:26 EDT 2012		
	Partial Internet related data was acquired		
	Notes:		
	Internet Bookmarks were not reported		
Results:			
	Assertion & Expected Result	Actual Result	
	SPT-CA-28 Acquisition of Internet related data.	Not as expected	
Analysis:	Expected results not achieved		

5.2.46 SPT-13 (iPhone 3.1.2)

Test Case SPI	-13 Lantern v2.3		
Case	SPT-13 Acquire mobile device internal memory by selecting a combination of		
Summary:	supported data elements.		
Assertions:	SPT-CA-29 If a cellular forensic tool provides the user with an "Acquire All" device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. SPT-CA-30 If a cellular forensic tool provides the user with an "Select All" individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error.		
Tester Name:	rpa		
Test Host:	p630542		
Test Date:	Wed Sep 19 08:40:34 EDT 2012		
Device:	iPhone_3.1.2		
Source	OS: Mac OS X v10.6.8		
Setup:	Interface: cable		
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:40:34 EDT 2012		
	Acquisition finished: Wed Sep 19 08:42:10 EDT 2012 Acquire All acquisition was successful		
Results:			
	Assertion & Expected Result	Actual Result	
	SPT-CA-29 Acquire-All data objects acquisition.	as expected	
	SPT-CA-30 Select-All data objects acquisition.	as expected	
	SPT-CA-31 Select-Individual data objects acquisition.	as expected	
Analysis:	Expected results achieved		

5.2.47 SPT-24 (iPhone 3.1.2)

Test Case SPT-24 Lantern v2.3	
Case	SPT-24 Acquire mobile device internal memory and review reported data via
Summary:	supported generated report formats.
Assertions:	SPT-AO-25 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format via supported generated report formats.

Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 08:42:45 EDT 2012	
Device:	iPhone_3.1.2	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Wed Sep 19 08:42:45 EDT 2012	
	Acquisition finished: Wed Sep 19 08:45:19 EDT 2012	
	1 1	
	Complete representation of known data via generated reports	s was successfu
- 1.	Complete representation of known data via generated reports	s was successfu
Results:		
Results:	Complete representation of known data via generated report. Assertion & Expected Result	Actual
Results:	Assertion & Expected Result	Actual Result
Results:	Assertion & Expected Result SPT-AO-25 Comparison of known device data elements via	Actual
Results:	Assertion & Expected Result	Actual Result
Results:	Assertion & Expected Result SPT-AO-25 Comparison of known device data elements via	Actual Result

5.2.48 SPT-25 (iPhone 3.1.2)

Test Case SPT	-25 Lantern v2.3		
Case	SPT-25 Acquire mobile device internal memory and review reported data via		
Summary:	the preview pane.		
Assertions:	SPT-AO-26 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format in a preview pane view.		
Tester Name:	rpa		
Test Host:	p630542		
Test Date:	Wed Sep 19 08:43:11 EDT 2012		
Device:	iPhone_3.1.2		
Source	OS: Mac OS X v10.6.8		
Setup:	Interface: cable		
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:43:11 EDT 2012 Acquisition finished: Wed Sep 19 08:45:35 EDT 2012 Complete representation of known data via preview pane was s	successful	
Results:			
	Assertion & Expected Result	Actual Result	
	SPT-AO-26 Comparison of known device data elements via preview-pane.	as expected	
Analysis:	Expected results achieved		

5.2.49 SPT-33 (iPhone 3.1.2)

Test Case SPT-33 Lantern v2.3	
Case	SPT-33 Acquire mobile device internal memory and review data containing
Summary:	non-ASCII characters.
Assertions:	SPT-AO-40 If the cellular forensic tool supports display of non-ASCII characters then the application should present address book entries in their native format. SPT-AO-41 If the cellular forensic tool supports proper display of non- ASCII characters then the application should present text messages in their native format.

Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 08:46:52 EDT 2012	
Device:	iPhone_3.1.2	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Wed Sep 19 08:46:52 EDT 2012 Acquisition finished: Wed Sep 19 08:48:16 EDT 2012	
	Non-ASCII Address book entries were acquired and proper Non-ASCII text messages were acquired and properly disp	
Results:	Non-ASCII Address book entries were acquired and proper	
Results:	Non-ASCII Address book entries were acquired and proper Non-ASCII text messages were acquired and properly disp	Actual
Results:	Non-ASCII Address book entries were acquired and proper Non-ASCII text messages were acquired and properly disp Assertion & Expected Result SPT-AO-40 Acquisition of non-ASCII address book	Actual Result

5.2.50 SPT-38 (iPhone 3.1.2)

Test Case SPT	-38 Lantern v2.3	
Case	SPT-38 Acquire mobile device internal memory and review hash	n values for
Summary:	vendor supported data objects.	
Assertions:	SPT-AO-43 If the cellular forensic tool supports hashing for data objects then the tool shall present the user with a has each supported data object.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 08:49:02 EDT 2012	
Device:	iPhone_3.1.2	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:49:02 EDT 2012 Acquisition finished: Wed Sep 19 08:51:59 EDT 2012 Hash values were properly reported for individually acquired elements	d device data
Results:		
	Assertion & Expected Result	Actual Result
	SPT-AO-43 Acquire data, check known hash values for consistency.	as expected
Analysis:	Expected results achieved	

5.2.51 SPT-40 (iPhone 3.1.2)

Test Case SPT-40 Lantern v2.3	
Case	SPT-40 Acquire mobile device internal memory and review data containing GPS
Summary:	longitude and latitude coordinates.
Assertions:	SPT-AO-44 If the cellular forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude

	coordinates for all GPS-related data in a useable format.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 08:49:25 EDT 2012	
Device:	iPhone_3.1.2	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:49:25 EDT 2012 Acquisition finished: Wed Sep 19 08:52:20 EDT 2012 GPS Coordinate data was successfully acquired	
Results:		
	Assertion & Expected Result	Actual Result
	SPT-AO-44 Acquire data, check GPS data for consistency.	as expected
Analysis:	Expected results achieved	

5.2.52 SPT-01 (iPhone 3.1.3)

Test Case SP	I-01 Lantern v2.3	
Case	SPT-01 Acquire mobile device internal memory over tool-suppor	ted interfaces
Summary:	(e.g., cable, Bluetooth, IrDA).	
Assertions:	SPT-CA-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). SPT-CA-04 If a cellular forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview pane or generated report. SPT-CA-29 If a cellular forensic tool provides the user with an "Acquire All" device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. SPT-CA-30 If a cellular forensic tool provides the user with a "Select All" individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error. SPT-CA-32 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error. SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.	
Tester	rpa	
Name:	i pu	
Test Host:	p630542	
Test Date:	Wed Sep 19 09:03:37 EDT 2012	
Device:	iPhone_3.1.3	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Wed Sep 19 09:03:37 EDT 2012	
	Acquisition finished: Wed Sep 19 09:06:32 EDT 2012	
	Device connectivity was established via supported interface	
Results:		1
	Assertion & Expected Result	Actual Result
	SPT-CA-01 Device connectivity via supported interfaces.	as expected
	SPT-CA-04 Readability and completeness of acquired data via	as expected
	supported reports.	

Test Case SPT-01 Lantern v2.3		
	SPT-CA-29 Acquire-All data objects acquisition.	as expected
	SPT-CA-30 Select-All data objects acquisition.	as expected
	SPT-CA-31 Select-Individual data objects acquisition.	as expected
	SPT-CA-32 Perform back-to-back acquisitions, check device payload for modifications.	as expected
Analysis:	Expected results achieved	

5.2.53 SPT-02 (iPhone 3.1.3)

Test Case SPT	-02 Lantern v2.3		
Case Summary:	SPT-02 Attempt internal memory acquisition of a nonsupported mobile device.		
Assertions:	SPT-CA-02 If a cellular forensic tool attempts to connect to a nonsupported device then the tool shall notify the user that the device is not supported.		
Tester Name:	rpa		
Test Host:	p630542		
Test Date:	Wed Sep 19 09:07:14 EDT 2012		
Device:	iPhone_3.1.3		
Source	OS: Mac OS X v10.6.8		
Setup:	Interface: cable		
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 09:07:14 EDT 2012 Acquisition finished: Wed Sep 19 09:10:46 EDT 2012 Identification of nonsupported devices was not successful Notes: Acquisition of nonsupported devices (i.e., iPod Nano) did not provide an error message stating the device was not supported.		
Results:	Assertion & Expected Result	Actual Result	
	SPT-CA-02 Identification of nonsupported devices.	Not as expected	
Analysis:	Expected results not achieved		

5.2.54 SPT-03 (iPhone 3.1.3)

Test Case SPT-	-03 Lantern v2.3	
Case	SPT-03 Begin mobile device internal memory acquisition and interrupt	
Summary:	connectivity by interface disengagement.	
Assertions:	SPT-CA-03 If connectivity between the mobile device and cellular forensic tool is disrupted then the tool shall notify the user that connectivity habeen disrupted.	is
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 09:12:34 EDT 2012	
Device:	lantern_iphone_3.1.3	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Wed Sep 19 09:12:34 EDT 2012	
	Acquisition finished: Wed Sep 19 09:14:46 EDT 2012	
	Device acquisition disruption notification was successful	
Results:		
	Assertion & Expected Result Actual Result	

February 2013

Results of Lantern 2.3

Test Case SPT-03 Lantern v2.3			
	SPT-CA-03 Notification of device acquisition disruption. as expected		
Analysis:	Expected results achieved		

5.2.55 SPT-04 (iPhone 3.1.3)

	T-04 Lantern v2.3	
Case	SPT-04 Acquire mobile device internal memory and review reported data via	
Summary:	the preview pane or generated reports for readability.	
Assertions:	SPT-CA-04 If a cellular forensic tool completes acquisition	
	device without error then the tool shall have the ability to	-
	acquired data objects in a useable format via either a previ	ew pane or
	generated report.	
Tester	rpa	
Name:		
Test Host:	p630542	
Test Date:	Wed Sep 19 09:26:14 EDT 2012	
Device:	iPhone_3.1.3	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Wed Sep 19 09:26:14 EDT 2012	
	Acquisition finished: Wed Sep 19 09:32:09 EDT 2012	
	Readability and completeness of acquired data was successful	-
Results:		
	Assertion & Expected Result	Actual Result
	SPT-CA-04 Readability and completeness of acquired data	as expected
	via supported reports.	
Analysis:	Expected results achieved	

5.2.56 SPT-05 (iPhone 3.1.3)

Test Case SPT	-05 Lantern v2.3		
Case	SPT-05 Acquire mobile device internal memory and review reported subscriber		
Summary:	and equipment related information (e.g., IMEI/MEID/ESN, MSISDN).		
Assertions:	SPT-CA-05 If a cellular forensic tool completes acquisition of the target device without error then subscriber-related information shall be presented in a useable format. SPT-CA-06 If a cellular forensic tool completes acquisition of the target device without error then equipment related information shall be presented in a useable format.		
Tester Name:	rpa		
Test Host:	p630542		
Test Date:	Wed Sep 19 09:33:16 EDT 2012		
Device:	iPhone_3.1.3		
Source	OS: Mac OS X v10.6.8		
Setup:	Interface: cable		
Loq	Created by Lantern v2.3		
Highlights:	Acquisition started: Wed Sep 19 09:33:16 EDT 2012		
	Acquisition finished: Wed Sep 19 09:36:08 EDT 2012		
	Subscriber and Equipment related data (i.e., MSISDN, IMEI) were acquired		
Results:			

Test Case SPT-05 Lantern v2.3		
	Assertion & Expected Result	Actual Result
	SPT-CA-05 Acquisition of MSISDN, IMSI.	as expected
	SPT-CA-06 Acquisition of IMEI/MEID/ESN.	as expected
Analysis:	Expected results achieved	

5.2.57 SPT-06 (iPhone 3.1.3)

Test Case SPT	-06 Lantern v2.3	
Case	SPT-06 Acquire mobile device internal memory and review repo	rted PIM
Summary:	related data.	
Summary: Assertions:	related data. SPT-CA-07 If a cellular forensic tool completes acquisition device without error then address book entries shall be pres useable format. SPT-CA-08 If a cellular forensic tool completes acquisition device without error then maximum length address book entrie presented in a useable format. SPT-CA-09 If a cellular forensic tool completes acquisition device without error then address book entries containing sp characters shall be presented in a useable format. SPT-CA-10 If a cellular forensic tool completes acquisition device without error then address book entries containing bl be presented in a useable format. SPT-CA-11 If a cellular forensic tool completes acquisition device without error then email addresses associated with ad entries shall be presented in a useable format. SPT-CA-12 If a cellular forensic tool completes acquisition device without error then email addresses associated with addresses book entries without error then graphics associated with addresses book device without error th	ented in a of the target s shall be of the target ecial of the target ank names shall of the target dress book of the target
	shall be presented in a useable format. SPT-CA-13 If a cellular forensic tool completes acquisition device without error then datebook, calendar, note entries si presented in a useable format. SPT-CA-14 If a cellular forensic tool completes acquisition device without error then maximum length datebook, calendar, shall be presented in a useable format.	hall be of the target
Tester Name:	rna	
Test Host:	rpa p630542	
Test Date:	Wed Sep 19 09:36:40 EDT 2012	
Device:	iPhone_3.1.3	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 09:36:40 EDT 2012 Acquisition finished: Wed Sep 19 09:39:09 EDT 2012	
	Regular Length Address Book entries were acquired Maximum Length Address Book entries were not acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired Embedded graphics within Address Book entries were acquired ALL PIM related data was acquired Notes: Contact entries containing middle names only reported the fi	rst and last
Pesulta	Maximum Length Address Book entries were not acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired Embedded graphics within Address Book entries were acquired ALL PIM related data was acquired	rst and last
Results:	Maximum Length Address Book entries were not acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired Embedded graphics within Address Book entries were acquired ALL PIM related data was acquired Notes: Contact entries containing middle names only reported the fi	rst and last Actual Result
Results:	Maximum Length Address Book entries were not acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired Embedded graphics within Address Book entries were acquired ALL PIM related data was acquired Notes: Contact entries containing middle names only reported the fi name.	Actual
Results:	Maximum Length Address Book entries were not acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired ALL PIM related data was acquired Notes: Contact entries containing middle names only reported the fi name. Assertion & Expected Result	Actual Result
Results:	Maximum Length Address Book entries were not acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired ALL PIM related data was acquired Notes: Contact entries containing middle names only reported the fi name. Assertion & Expected Result SPT-CA-07 Acquisition of address book entries.	Actual Result as expected

Test Case SPT	-06 Lantern v2.3	
	special characters.	
	SPT-CA-10 Acquisition of address book entries containing a blank name entry.	as expected
	SPT-CA-11 Acquisition of embedded email addresses within address book entries.	as expected
	SPT-CA-12 Acquisition of embedded graphics within address book entries.	as expected
	SPT-CA-13 Acquisition of PIM data (i.e., datebook/calendar, notes).	as expected
	SPT-CA-14 Acquisition of maximum length PIM data.	as expected
Analysis:	Partial results achieved	

5.2.58 SPT-07 (iPhone 3.1.3)

Test Case SPI	-07 Lantern v2.3		
Case Summary:	SPT-07 Acquire mobile device internal memory and review reported call logs.		
Assertions:	SPT-CA-15 If a cellular forensic tool completes acquisition of the target device without error then call logs (incoming/outgoing/missed) shall be presented in a useable format. SPT-CA-16 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps and the duration of the call for call logs shall be presented in a useable format.		
Tester Name:	rpa		
Test Host:	p630542		
Test Date:	Wed Sep 19 09:41:05 EDT 2012		
Device:	iPhone_3.1.3		
Source	OS: Mac OS X v10.6.8		
Setup:	Interface: cable		
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 09:41:05 EDT 2012		
inightights.	Acquisition finished: Wed Sep 19 09:53:16 EDT 2012		
	All Call Logs (incoming, outgoing, missed) were acqui All Call Log date/time stamps data were correctly rep		
Results:			
	Assertion & Expected Result	Actual Result	
	SPT-CA-15 Acquisition of call logs.	as expected	
	SPT-CA-16 Acquisition of call log date/time stamps.	as expected	
Analysis:	Expected results achieved		

5.2.59 SPT-08 (iPhone 3.1.3)

Test Case SPT	-08 Lantern v2.3
Case	SPT-08 Acquire mobile device internal memory and review reported text
Summary:	messages.
Assertions:	SPT-CA-17 If a cellular forensic tool completes acquisition of the target device without error then ASCII text messages (i.e., SMS, EMS) shall be presented in a useable format. SPT-CA-18 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps for text messages shall be presented in a useable format. SPT-CA-19 If a cellular forensic tool completes acquisition of the target device without error then the corresponding status (i.e., read, unread) for text messages shall be presented in a useable format. SPT-CA-20 If a cellular forensic tool completes acquisition of the target device without error then the corresponding sender / recipient phone numbers for text messages shall be presented in a useable format.

Test Case SPI	-08 Lantern v2.3	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 09:41:27 EDT 2012	
Device:	iPhone_3.1.3	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Wed Sep 19 09:41:27 EDT 2012 Acquisition finished: Wed Sep 19 09:53:58 EDT 2012	
	ALL text messages (SMS, EMS) were acquired Correct date/time stamps were reported for all text message Correct status flags were reported for all text messages Sender and Recipient phone numbers associated with text mes correctly reported	
Results:	Assertion & Expected Result	Actual
		Result
	SPT-CA-17 Acquisition of text messages.	as expected
	SPT-CA-18 Acquisition of text message date/time stamps.	as expected
	SPT-CA-19 Acquisition of text message status flags.	as expected
	SPT-CA-20 Acquisition of sender/recipient phone number associated with text messages.	as expected
Analysis:	Expected results achieved	

5.2.60 SPT-09 (iPhone 3.1.3)

Test Case SPT	-09 Lantern v2.3		
Case	SPT-09 Acquire mobile device internal memory and review reported MMS multi-		
Summary:	media related data (i.e., text, audio, graphics, video).		
Assertions:	SPT-CA-21 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated audio shall be presented in a useable format. SPT-CA-22 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated graphic files shall be presented in a useable format. SPT-CA-23 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated yide of the target device without error then MMS messages and associated video shall be presented in a useable format.		
Tester Name:	rpa		
Test Host:	p630542		
Test Date:	Wed Sep 19 09:41:50 EDT 2012		
Device:	iPhone 3.1.3		
Source	OS: Mac OS X v10.6.8		
Setup:	Interface: cable		
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 09:41:50 EDT 2012 Acquisition finished: Wed Sep 19 09:54:25 EDT 2012 ALL MMS messages (Audio, Image, Video) were acquired		
Results:	Assertion & Expected Result SPT-CA-21 Acquisition of audio MMS messages. SPT-CA-22 Acquisition of graphic data image MMS messages. SPT-CA-23 Acquisition of video MMS messages.	Actual Result as expected as expected as expected	
	SPI-CA-23 ACQUISITION OF VIGEO MMS messages.	as expected	

Test Case SPT-09 Lantern v2.3	
Analysis:	Expected results achieved

5.2.61 SPT-10 (iPhone 3.1.3)

Test Case SPT	-10 Lantern v2.3		
Case	SPT-10 Acquire mobile device internal memory and review reported stand-		
Summary:	alone multi-media data (i.e., audio, graphics, video).		
Assertions:	SPT-CA-24 If a cellular forensic tool completes acquisition of the target device without error then stand-alone audio files shall be presented in a useable format via either an internal application or suggested third-party application. SPT-CA-25 If a cellular forensic tool completes acquisition of the target device without error then stand-alone graphic files shall be presented in a useable format via either an internal application or suggested third-party application. SPT-CA-26 If a cellular forensic tool completes acquisition of the target device without error then stand-alone video files shall be presented in a useable format via either an internal application or suggested third-party application.		
Tester	rpa		
Name:	ipu		
Test Host:	p630542		
Test Date:	Wed Sep 19 09:42:17 EDT 2012		
Device:	iPhone_3.1.3		
Source	OS: Mac OS X v10.6.8		
Setup:	Interface: cable		
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 09:42:17 EDT 2012		
	Acquisition finished: Wed Sep 19 09:54:42 EDT 2012		
	ALL stand-alone data files (Audio, Image, Video) were	acquired	
Results:			
	Assertion & Expected Result	Actual Result	
	SPT-CA-24 Acquisition of stand-alone audio files.	as expected	
	SPT-CA-25 Acquisition of stand-alone graphic files.	as expected	
	SPT-CA-26 Acquisition of stand-alone video files.	as expected	
Analysis:	Expected results achieved		

5.2.62 SPT-12 (iPhone 3.1.3)

Test Case SPT-12 Lantern v2.3		
Case	SPT-12 Acquire mobile device internal memory and review Internet related	
Summary:	data (i.e., bookmarks, visited sites.	
Assertions:	SPT-CA-28 If a cellular forensic tool completes acquisition of the target device without error then Internet related data (i.e., bookmarks, visited sites) cached to the device shall be acquired and presented in a useable format.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 09:55:22 EDT 2012	
Device:	iPhone_3.1.3	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 09:55:22 EDT 2012 Acquisition finished: Wed Sep 19 10:00:25 EDT 2012	

Test Case SPT	-12 Lantern v2.3	
	Partial Internet related data was acquired	
	Notes: Internet Bookmarks were not reported	
Results:		
	Assertion & Expected Result	Actual Result
	SPT-CA-28 Acquisition of Internet related data.	Not as expected
Analysis:	Expected results not achieved	

5.2.63 SPT-13 (iPhone 3.1.3)

Test Case SPT	-13 Lantern v2.3		
Case	SPT-13 Acquire mobile device internal memory by selecting a combination of		
Summary:	supported data elements.		
Assertions:	SPT-CA-29 If a cellular forensic tool provides the user with an "Acquire All" device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. SPT-CA-30 If a cellular forensic tool provides the user with an "Select All" individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error.		
Tester Name:	rpa		
Test Host:	p630542		
Test Date:	Wed Sep 19 10:01:23 EDT 2012		
Device:	iPhone_3.1.3		
Source	OS: Mac OS X v10.6.8		
Setup:	Interface: cable		
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 10:01:23 EDT 2012		
	Acquisition finished: Wed Sep 19 10:01:25 EDT 2012 Acquisition finished: Wed Sep 19 10:04:17 EDT 2012		
	Acquire All acquisition was successful		
Results:			
	Assertion & Expected Result	Actual Result	
	SPT-CA-29 Acquire-All data objects acquisition.	as expected	
	SPT-CA-30 Select-All data objects acquisition.	as expected	
	SPT-CA-31 Select-Individual data objects acquisition.	as expected	
Analysis:	Expected results achieved		

5.2.64 SPT-24 (iPhone 3.1.3)

Test Case SPT	-24 Lantern v2.3
Case	SPT-24 Acquire mobile device internal memory and review reported data via
Summary:	supported generated report formats.
Assertions:	SPT-AO-25 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format via supported generated report formats.
Tester Name:	rpa
Test Host:	p630542
Test Date:	Wed Sep 19 10:05:02 EDT 2012
Device:	iPhone_3.1.3
Source	OS: Mac OS X v10.6.8
Setup:	Interface: cable

Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 10:05:02 EDT 2012 Acquisition finished: Wed Sep 19 10:17:31 EDT 2012	
	Complete representation of known data via generated report	s was successfu
Results:		1
Results:	Assertion & Expected Result	Actual Result
Results:	Assertion & Expected Result SPT-AO-25 Comparison of known device data elements via generated reports.	

5.2.65 SPT-25 (iPhone 3.1.3)

Test Case SPT	-25 Lantern v2.3	
Case	SPT-25 Acquire mobile device internal memory and review reported data via	
Summary:	the preview pane.	
Assertions:	SPT-A0-26 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format in a preview pane view.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 10:05:45 EDT 2012	
Device:	iPhone_3.1.3	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 10:05:45 EDT 2012 Acquisition finished: Wed Sep 19 10:17:59 EDT 2012 Complete representation of known data via preview pane was successful	
Results:		
	Assertion & Expected Result	Actual Result
	SPT-AO-26 Comparison of known device data elements via preview-pane.	as expected
Analysis:	Expected results achieved	

5.2.66 SPT-33 (iPhone 3.1.3)

Test Case SPT	Test Case SPT-33 Lantern v2.3		
Case	SPT-33 Acquire mobile device internal memory and review data containing		
Summary:	non-ASCII characters.		
Assertions:	SPT-AO-40 If the cellular forensic tool supports display of non-ASCII characters then the application should present address book entries in their native format. SPT-AO-41 If the cellular forensic tool supports proper display of non- ASCII characters then the application should present text messages in their native format.		
Tester Name:	rpa		
Test Host:	p630542		
Test Date:	Wed Sep 19 10:06:17 EDT 2012		
Device:	iPhone_3.1.3		
Source	OS: Mac OS X v10.6.8		
Setup:	Interface: cable		

Log	Created by Lantern v2.3	
Highlights:	Acquisition started: Wed Sep 19 10:06:17 EDT 2012	
	Acquisition finished: Wed Sep 19 10:18:17 EDT 2012	
	Non-ASCII Address book entries were acquired and proper Non-ASCII text messages were acquired and properly disp	
Deaultat		
Results:	Accortion C. Exposted Desult) atual
Results:	Assertion & Expected Result	Actual Result
Results:	Assertion & Expected Result SPT-AO-40 Acquisition of non-ASCII address book	
Results:		Result
Results:	SPT-AO-40 Acquisition of non-ASCII address book	Result as expect
Results:	SPT-AO-40 Acquisition of non-ASCII address book entries/ADNs.	Result

5.2.67 SPT-38 (iPhone 3.1.3)

Test Case SPT	-38 Lantern v2.3	
Case Summary:	SPT-38 Acquire mobile device internal memory and review hash values for vendor supported data objects.	
Assertions:	SPT-AO-43 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 10:06:49 EDT 2012	
Device:	iPhone_3.1.3	
Source	OS: Mac OS X v10.6.8	
Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 10:06:49 EDT 2012 Acquisition finished: Wed Sep 19 10:18:55 EDT 2012 Hash values were properly reported for individually acquired device data elements	
Results:	Assertion & Expected Result	Actual Result
	SPT-AO-43 Acquire data, check known hash values for consistency.	as expected
Analysis:	Expected results achieved	

5.2.68 SPT-40 (iPhone 3.1.3)

Test Case SPT	-40 Lantern v2.3
Case	SPT-40 Acquire mobile device internal memory and review data containing GPS
Summary:	longitude and latitude coordinates.
Assertions:	SPT-AO-44 If the cellular forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.
Tester Name:	rpa
Test Host:	p630542
Test Date:	Wed Sep 19 10:07:17 EDT 2012
Device:	iPhone_3.1.3
Source	OS: Mac OS X v10.6.8

Setup:	Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 10:07:17 EDT 2012 Acquisition finished: Wed Sep 19 10:19:11 EDT 2012 GPS Coordinate data was successfully acquired	
Results:	Assertion & Expected Result	Actual Result
	SPT-AO-44 Acquire data, check GPS data for consistency.	as expected
Analysis:	Expected results achieved	

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- 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.

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- 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.

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