

JAN. 2011 NIJ Special REPORT Test Results for Mobile Device Acquisition Tool: Mobilyze 1.1

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	Test Results for Mobile Device Acquisition Tool: Mobilyze 1.1
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Test Results for Mobile Device Acquisition Tool: Mobilyze Version 1.1



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Introduction

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

Test results provide the information necessary for developers to improve tools, users to make informed choices, and the legal community and others to understand the tools' capabilities. This approach to testing computer forensic tools is based on well–recognized methodologies for conformance and quality testing. The specifications and test methods posted on the CFTT Web site (<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 Mobilyze, version 1.1, 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 software packages and the CFTT tool methodology can be found on NIJ's computer forensics tool testing Web

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

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 and provide documentation of test case run details that support the report summary. Sections 2 and 3 provide a justification for the selection of test cases and assertions from the set of possible cases that are defined in the test plan for smart phone forensic tools. The test cases are selected, in general, based on features offered by the tool. Section 4 lists the hardware and software used to run the test case. Section 5 contains a description of each test case, test assertions used in the test case, the expected result and the actual result.

Test Results for Mobile Device Data Acquisition Tool

Tool Tested:	Mobilyze
Version:	1.1
Run Environment:	Mac OS X 10.5.4
Supplier:	BlackBag Technologies, Inc.
Address:	300 Piercy Rd, San Jose, CA 95138
Tel:	408.844.8890
WWW:	http://www.blackbagtech.com

1 Results Summary

Except for the following test cases: SPT-03, SPT-06, SPT-08, SPT-33, the tested tool acquired all supported data objects completely and accurately from the selected test mobile device (i.e., iPhone 3Gs). The exceptions were the following:

- Notification of device acquisition disruption was not successful. Test Case: SPT-03
- Maximum length address book entries reported in the preview-pane view were truncated. Test Case: SPT-06
- The delivery time for text messages displayed in the "Messages" tab are not reported. Test Case: SPT-08
- Non-ASCII address book entries and text messages are not properly reported in their native format. Test Case: SPT-33

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 base 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. Table 1a lists the test cases available in Mobilyze. Table 2a lists the test cases not available in Mobilyze.

Supported Test Cases	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-13
Acquire mobile device internal memory and	SPT-24
review reported data via supported generated	
report formats.	

 Table 1a: Selected Test Cases (iPhone 3Gs)

Supported Test Cases	Cases Selected for Execution
Acquire mobile device internal memory and	SPT-25
review reported data via the preview pane.	
After a successful mobile device internal	SPT-29
memory, alter the case file via third-party	
means and attempt to re-open the case.	
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.	

Table 2a: Omitted Test Cases (iPhone 3Gs)

Unsupported Test Cases	Cases omitted – not executed
Acquire mobile device internal memory and review application related data (i.e., word documents, spreadsheet, presentation documents).	SPT-11
Acquire mobile device internal memory and review Internet related data (i.e., bookmarks, visited sites.	SPT-12
Acquire SIM memory over supported interfaces (e.g., PC/SC reader).	SPT-14
Attempt acquisition of a non-supported SIM.	SPT-15
Begin SIM acquisition and interrupt connectivity by interface disengagement.	SPT-16
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 (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 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

Unsupported Test Cases	Cases omitted – not executed
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
Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates.	SPT-40

3 Results by Test Assertion

Table 3a summarizes the test results by assertion. The column labeled **Assertion** gives the text of each assertion. The column labeled **Tests** gives the number of test cases that use the given assertion. The column labeled **Anomaly** gives the section number in this report where the anomaly is discussed.

Table 3a: Assertions Tested: (iPhone 3Gs)

Assertions Tested	Tests	Anomaly
SPT–CA–01 If a cellular forensic tool provides support for connectivity	1	
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–02 If a cellular forensic tool attempts to connect to a non-	1	
supported 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	1	3.1
forensic tool is disrupted then the tool shall notify the user that		
connectivity has been disrupted.		
SPT–CA–04 If a cellular forensic tool completes acquisition of the	2	
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–05 If a cellular forensic tool completes acquisition of the	1	
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	1	
target device without error then equipment related information shall be		

Assertions Tested	Tests	Anomaly
presented in a useable format.		
SPT–CA–07 If a cellular forensic tool completes acquisition of the	1	
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	1	3.2
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	1	
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	1	
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	1	
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	1	
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	1	
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	1	
target device without error then maximum length datebook, calendar,		
note entries shall be presented in a useable format.		
SPT–CA–15 If a cellular forensic tool completes acquisition of the	1	
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	1	
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.		
SPT–CA–17 If a cellular forensic tool completes acquisition of the	1	
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	1	3.3
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	1	
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	1	
target device without error then the corresponding sender / recipient		
phone numbers for text messages shall be presented in a useable format.		
SPT–CA–21 If a cellular forensic tool completes acquisition of the	1	

Assertions Tested	Tests	Anomaly
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	1	
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	1	
target device without error then MMS messages and associated video		
shall be presented in a useable format.		
SPT–CA–24 If a cellular forensic tool completes acquisition of the	1	
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	1	
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	1	
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.		
SPT–CA–29 If a cellular forensic tool provides the user with an	2	
"Acquire All" device data objects acquisition option then the tool shall		
complete the acquisition of all data objects without error.		
SPT–CA–32 If a cellular forensic tool completes two consecutive	1	
logical acquisitions of the target device without error then the payload		
(data objects) on the mobile device shall remain consistent.		
SPT–AO–25 If a cellular forensic tool completes acquisition of the	1	
target device without error then the tool shall present the acquired data		
in a useable format via supported generated report formats.		
SPT–AO–26 If a cellular forensic tool completes acquisition of the	1	3.2
target device without error then the tool shall present the acquired data		
in a useable format in a preview-pane view.		
SPT–AO–27 If the case file or individual data objects are modified via	1	
third-party means then the tool shall provide protection mechanisms		
disallowing or reporting data modification.		
SPT-AO-40 If the cellular forensic tool supports display of non-ASCII	1	3.4
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-	1	3.4
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	1	
data objects then the tool shall present the user with a hash value for		
each supported data object.		

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

Table 4a: Assertions Not Tested (iPhone 3Gs)

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–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.
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–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 non-supported 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

Assertions Not Tested

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–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

Assertions Not Tested

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.

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.

The following sections provide detailed information for the anomalies specified in Table 3a.

3.1 Acquisition Disruption

Notification of device acquisition disruption was not successful for test case SPT–03. The acquisition was disrupted by removing the cable from the mobile device during acquisition. When disrupting connectivity to the mobile device during acquisition, the Mobilyze application locks up and forces the user to force quit the application.

3.2 PIM Data Acquisition

Maximum length address book entries containing 126 characters were truncated after the 87th character in the preview-pane view for test case SPT–06.

3.3 Acquisition of Date/Time stamps for Text Messages

Time stamps for text messages were not reported for text messages displayed in the "Messages" tab for test case SPT-08.

3.4 Acquisition of Non-ASCII Characters

Acquisition of address book entries and text messages containing non-ASCII characters (i.e., French accent marks and Chinese characters) were not properly reported in their native format for test case SPT–33. Address book entries containing the following non-ASCII characters were reported as follows:

阿•哈拉 - displayed as: ÈòøÊÅ∂ÂìàÊãâ Aurélien - displayed as: Aur√©lien

Text messages containing the following non-ASCII characters were reported as follows: 阿•哈拉阿•哈拉 - displayed as: ÈòøÊÅ∂ÂìàÊãâ ÈòøÊÅ∂ÂìàÊãâ ÈòøÊÅ∂ÂìàÊãâ Àéïōû - displayed as: √Ä√©√Ø≈ç√ª

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 test computer was used.

p630542 has the following configuration:

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

4.2 Mobile Devices

The following table contains the mobile device used.

Make	Model	OS	Network
Apple iPhone	3Gs	iPhone	AT&T

4.3 Internal Memory Data Objects

The following data objects were used to populate the internal memory of the smart phones.

Data Objects	Data Elements
Address Book Entries	
	Regular Length
	Maximum Length
	Special Character
	Blank Name
	Regular Length, email
	Regular Length, graphic
	Deleted Entry
	Non-ASCII Entry
PIM Data	
	Regular Length
	Maximum Length
	Deleted Entry
	Special Character
Call Logs	
	Incoming
	Outgoing
	Missed
	Incoming – Deleted
	Outgoing – Deleted
	Missed – Deleted
Text Messages	
	Incoming SMS – Read
	Incoming SMS – Unread
	Outgoing SMS
	Incoming EMS – Read
	Incoming EMS – Unread
	Outgoing EMS
	Incoming SMS – Deleted
	Outgoing SMS – Deleted
	Incoming EMS – Deleted
	Outgoing EMS – Deleted
	Non–ASCII EMS
MMS Messages	
	Incoming Audio
	Incoming Graphic
	Incoming Video
	Outgoing Audio
	Outgoing Graphic
	Outgoing Video
Stand-alone data files	
	Audio
	Graphic
	Video

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Data Objects	Data Elements
	Audio – Deleted
	Graphic – Deleted
	Video – Deleted
Application Data	
	Device Specific App Data
Location Data	
	GPS Coordinates

5 Test Results

The main item of interest for interpreting the test results is determining the conformance of the tool with the test assertions. Conformance with each assertion tested by a given test case is evaluated by examining the **Results** box of the test case details.

5.1 Test Results Report Key

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

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, media (i.e., 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

5.2.1 SPT-01 (iPhone 3Gs)

Test Case SPT	-01 Mobilyze 1.1
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
	the target attice that the total target that is a set of the target

Test Case SPT	-01 Mobilyze 1.1	
	device via all vendor supported interfaces (e.g., cable, Blue SPT-CA-04 If a cellular forensic tool completes acquisition of device without error then the tool shall have the ability to p acquired data objects in a useable format via either a preview generated report. SPT-CA-29 If a cellular forensic tool provides the user with a All" device data objects acquisition option then the tool shall the acquisition of all data objects without error. SPT-CA-30 If a cellular forensic tool provides the user with a individual device data objects then the tool shall complete th of all individually selected data objects without error. SPT-CA-31 If a cellular forensic tool provides the user with " Select Individual" device data objects for acquisition then 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.	f the target present w-pane or an "Acquire 11 complete a "Select All" he acquisition the ability to the tool shall we logical
Tester	rpa	
Name:		
Test Host:	P630542	
Test Date:	Wed Aug 25 12:33:04 EDT 2010	
Device:	iPhone3Gs	
Source	OS: WIN XP	
Setup:	Interface: cable	
Loq	Created by Mobilyze 1.1	
Highlights:	Acquisition started: Wed Aug 25 12:33:04 EDT 2010 Acquisition finished: Wed Aug 25 12:41:39 EDT 2010	
	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 (iPhone 3Gs)

Test Case SPT	-02 Mobilyze 1.1
Case	SPT-02 Attempt internal memory acquisition of a non-supported mobile
Summary:	device.
Assertions:	SPT-CA-02 If a cellular forensic tool attempts to connect to a non- supported device then the tool shall notify the user that the device is not supported.
Tester Name:	rpa
Test Host:	P630542
Test Date:	Wed Aug 25 12:42:26 EDT 2010
Device:	nonsupported device
Source	OS: WIN XP
Setup:	Interface: cable
Log	Created by Mobilyze 1.1
Highlights:	Acquisition started: Wed Aug 25 12:42:26 EDT 2010
	Acquisition finished: Wed Aug 25 12:47:24 EDT 2010
	Identification of non-supported devices was successful
Results:	
	Assertion & Expected Result Actual Result
	SPT-CA-02 Identification of non-supported devices. as expected
Analysis:	Expected results achieved

5.2.3 SPT-03 (iPhone 3Gs)

Test Case SPT	-03 Mobilyze 1.1	
Case	SPT-03 Begin mobile device internal memory acquisition as	nd interrupt
Summary:	connectivity by interface disengagement.	
Assertions:	SPT-CA-03 If connectivity between the mobile device and o tool is disrupted then the tool shall notify the user the been disrupted.	
Tester Name:	rpa	
Test Host:	P630542	
Test Date:	Wed Aug 25 12:59:29 EDT 2010	
Device:	iPhone3Gs	
Source	OS: WIN XP	
Setup:	Interface: cable	
Log Highlights:	Created by Mobilyze 1.1 Acquisition started: Wed Aug 25 12:59:29 EDT 2010 Acquisition finished: Wed Aug 25 13:03:19 EDT 2010	
	Device acquisition disruption notification was not successful	
	Notes: When disrupting connectivity to the mobile device being a Mobilyze application locks up and forces the user to issue	± '
Results:		
	Assertion & Expected Result	Actual Result
	SPT-CA-03 Notification of device acquisition	Not as
	disruption.	expected
Analysis:	Expected results Not achieved	

5.2.4 SPT-04 (iPhone 3Gs)

Test Case SP	r-04 Mobilyze 1.1	
Case Summary:	SPT-04 Acquire mobile device internal memory and review reported data via 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 Name:	rpa	
Test Host:	P630542	
Test Date:	Wed Aug 25 13:19:23 EDT 2010	
Device:	iPhone3Gs	
Source	OS: WIN XP	
Setup:	Interface: cable	
Loq	Created by Mobilyze 1.1	
Highlights:	Acquisition started: Wed Aug 25 13:19:23 EDT 2010	
	Acquisition finished: Wed Aug 25 13:23:20 EDT 2010	
	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	

5.2.5 SPT-05 (iPhone 3Gs)

Test Case SPT	-05 Mobilyze 1.1	
Case Summary:	SPT-05 Acquire mobile device internal mem and equipment related information (e.g.,	2 1
Assertions:	SPT-CA-05 If a cellular forensic tool comp device without error then subscriber-relating in a useable format. SPT-CA-06 If a cellular forensic tool comp device without error then equipment related in a useable format.	ted information shall be presented pletes acquisition of the target
Tester Name:	rpa	
Test Host:	P630542	
Test Date:	Wed Aug 25 13:27:43 EDT 2010	
Device:	iPhone3Gs	
Source	OS: WIN XP	
Setup:	Interface: cable	
Log Highlights:	Created by Mobilyze 1.1 Acquisition started: Wed Aug 25 13:27:43 Acquisition finished: Wed Aug 25 13:39:26 Subscriber and Equipment related data (i.4	EDT 2010
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 (iPhone 3Gs)

SPT-CA-08 Acquisition of maximum length address book entries.partialSPT-CA-09 Acquisition of address book entries containing special characters.as expectedSPT-CA-10 Acquisition of address book entries containing a blank name entry.as expected	Test Case SPT	-06 Mobilyze 1.1	
Summary: related data. Assertions: SFT-CA-07 If a cellular forensic tool completes acquisition of the targe device without error then address book entries shall be presented in a useable format. SFT-CA-08 If a cellular forensic tool completes acquisition of the targe device without error then address book entries containing special characters shall be presented in a useable format. SFT-CA-09 If a cellular forensic tool completes acquisition of the targe device without error then address book entries containing blank names sh be presented in a useable format. SFT-CA-10 If a cellular forensic tool completes acquisition of the targe device without error then datess book entries containing blank names sh be presented in a useable format. SFT-CA-10 If a cellular forensic tool completes acquisition of the targe device without error then mained address book entries shall be presented in a useable format. SFT-CA-13 If a cellular forensic tool completes acquisition of the targe device without error then facebook, calendar, note entries shall be presented in a useable format. SFT-CA-13 If a cellular forensic tool completes acquisition of the targe device without error then maximum length datebook, calendar, note entries shall be presented in a useable format. SFT-CA-14 If a entilular forensic tool completes acquisition of the targe shure without error then datebook, calendar, note entries shall be presented in a useable format. SFT-CA-16 If a cellular forensic tool completes acquisition of the targe shure without error then facebook, calendar, note entries shall be presented in a useable format. SFT-CA-16 Acquis			rted PIM
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blank name entry.			
		SPT-CA-10 Acquisition of address book entries containing a	as expected
SPT-CA-11 Acquisition of embedded email addresses within as expected		blank name entry.	
			as expected
address book entries.		=	-
			as expected
book entries.			

	SPT-CA-13 Acquisition of PIM data (i.e., datebook/calendar, notes).	NA
	SPT-CA-14 Acquisition of maximum length PIM data.	NA
Analysis:	Partial results achieved	

5.2.7 SPT-07 (iPhone 3Gs)

Test Case SPI	-07 Mobilyze 1.1	
Case Summary:	SPT-07 Acquire mobile device internal memory and review reported call logs 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.	
Assertions:		
Tester Name:	rpa	
Test Host:	P630542	
Test Date:	Thu Aug 26 08:52:15 EDT 2010	
Device:	iPhone3Gs	
Source	OS: WIN XP	
Setup:	Interface: cable	
Log	Created by Mobilyze 1.1	
Highlights:	Acquisition started: Thu Aug 26 08:52:15 EDT 2010 Acquisition finished: Thu Aug 26 09:01:30 EDT 2010	
	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	

5.2.8 SPT-08 (iPhone 3Gs)

Test Case SPT	-08 Mobilyze 1.1	
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 device without error then ASCII text messages (i.e., SMS, E presented in a useable format. SPT-CA-18 If a cellular forensic tool completes acquisition device without error then the corresponding date/time stamp messages shall be presented in a useable format. SPT-CA-19 If a cellular forensic tool completes acquisition device without error then the corresponding status (i.e., r text messages shall be presented in a useable format. SPT-CA-20 If a cellular forensic tool completes acquisition device without error then the corresponding sender / recipi numbers for text messages shall be presented in a useable format.	MS) shall be of the target s for text of the target ead, unread) for of the target ent phone
Tester Name:	rpa	
Test Host:	P630542	
Test Date:	Thu Aug 26 09:02:43 EDT 2010	
Device:	iPhone3Gs	
Source	OS: WIN XP	
Setup:	Interface: cable	
Loq	Created by Mobilyze 1.1	
Highlights:	Acquisition started: Thu Aug 26 09:02:43 EDT 2010 Acquisition finished: Thu Aug 26 09:15:20 EDT 2010	
	ALL text messages (SMS, EMS) were acquired Date/time stamps were partially reported for text messages Status flags were not reported for text messages - NA Sender and Recipient phone numbers associated with text mes correctly reported	sages were
	Notes: The delivery time for text messages are not 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.	partial
	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:	Partial results achieved	

5.2.9 SPT-09 (iPhone 3Gs)

Test Case SPT	-09 Mobilyze 1.1	
Case	SPT-09 Acquire mobile device internal memory and review reported MMS multi-	
Summary:	media related data (i.e., text, audio, graphics, video).	
Assertions:		
Tester Name:	rpa	
Test Host:	P630542	
Test Date:	Thu Aug 26 09:24:20 EDT 2010	
Device:	iPhone3Gs	
Source	OS: WIN XP	
Setup:	Interface: cable	
Log	Created by Mobilyze 1.1	
Highlights:	Acquisition started: Thu Aug 26 09:24:20 EDT 2010 Acquisition finished: Thu Aug 26 09:26:19 EDT 2010	
	ALL MMS messages (Audio, Image, Video) were acquired	
	Notes: The MMS attachments (i.e., audio, graphics, video files) are the associated textual portion of the message.	e not linked to
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 (iPhone 3Gs)

Test Case SPI	T-10 Mobilyze 1.1		
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 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.	All be presented in a suggested third-party sation of the target shall be presented in a suggested third-party sation of the target all be presented in a	
Tester	rpa		
Name:	гра		
Test Host:	P630542		
Test Date:	Thu Aug 26 09:27:51 EDT 2010		
Device:	iPhone3Gs		
Source	OS: WIN XP		
Setup:	Interface: cable		
Log Highlights:	Created by Mobilyze 1.1 Acquisition started: Thu Aug 26 09:27:51 EDT 2010 Acquisition finished: Thu Aug 26 09:47:16 EDT 2010 ALL stand-alone data files (Audio, Image, Video) were acquired		
Results:		1	
	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-13 (iPhone 3Gs)

Test Case SPT	-13 Mobilyze 1.1	
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 All" device data objects acquisition option then the to the acquisition of all data objects without error. SPT-CA-30 If a cellular forensic tool provides the user All" individual device data objects then the tool shall acquisition of all individually selected data objects w SPT-CA-31 If a cellular forensic tool provides the user "Select Individual" device data objects for acquisition acquire each exclusive data object without error.	ol shall complete with an "Select complete the rithout error. with the ability to
Tester Name:	Name: rpa	
Test Host:	P630542	
Test Date:	Thu Aug 26 09:49:50 EDT 2010	
Device:	iPhone3Gs	
Source	OS: WIN XP	
Setup:	Interface: cable	
Log Highlights:	Created by Mobilyze 1.1 Acquisition started: Thu Aug 26 09:49:50 EDT 2010 Acquisition finished: Thu Aug 26 09:52:34 EDT 2010 Acquire All acquisition was successful	
Results:		1
	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	

5.2.12 SPT-24 (iPhone 3Gs)

Test Case SPT	-24 Mobilyze 1.1	
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:	Thu Aug 26 09:59:32 EDT 2010	
Device:	iPhone3Gs	
Source	OS: WIN XP	
Setup:	Interface: cable	
Log Highlights:	Created by Mobilyze 1.1 Acquisition started: Thu Aug 26 09:59:32 EDT 2010 Acquisition finished: Thu Aug 26 10:05:00 EDT 2010 Complete representation of known data via generated reports was success	
Results:		
	Assertion & Expected Result	Actual Result
	SPT-A0-25 Comparison of known device data elements via generated reports.	as expected
Analysis:	Expected results achieved	

5.2.13 SPT-25 (iPhone 3Gs)

SPT-25 Acquire mobile device internal memory and review rep the preview pane.	ported data via
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.	
rpa	
P630542	
Thu Aug 26 10:05:23 EDT 2010	
iPhone3Gs	
OS: WIN XP	
Interface: cable	
Created by Mobilyze 1.1 Acquisition started: Thu Aug 26 10:05:23 EDT 2010 Acquisition finished: Thu Aug 26 10:13:36 EDT 2010 Complete representation of known data via preview-pane was not successful Notes: Maximum length address book entries were truncated in the preview-pane.	
Assertion & Expected Result	Actual Result
SPT-A0-26 Comparison of known device data elements via preview-pane.	Not as expected
	device without error then the tool shall present the acquisuseable format in a preview-pane view. rpa P630542 Thu Aug 26 10:05:23 EDT 2010 iPhone3Gs OS: WIN XP Interface: cable Created by Mobilyze 1.1 Acquisition started: Thu Aug 26 10:05:23 EDT 2010 Acquisition finished: Thu Aug 26 10:13:36 EDT 2010 Complete representation of known data via preview-pane was Notes: Maximum length address book entries were truncated in the p Assertion & Expected Result

5.2.14 SPT-29 (iPhone 3Gs)

Test Case SPT	-29 Mobilyze 1.1	
Case Summary:	SPT-29 After a successful mobile device internal memor the case file via third-party means and attempt to re-	
Assertions:	SPT-AO-27 If the case file or individual data objects third-party means then the tool shall provide protecti disallowing or reporting data modification.	
Tester Name:	rpa	
Test Host:	P630542	
Test Date:	Thu Aug 26 10:14:07 EDT 2010	
Device:	iPhone3Gs	
Source	OS: WIN XP	
Setup:	Interface: cable	
Log Highlights:	Created by Mobilyze 1.1 Acquisition started: Thu Aug 26 10:14:07 EDT 2010 Acquisition finished: Thu Aug 26 10:15:36 EDT 2010 Notification of modified device memory data was succes	sful
Results:		
	Assertion & Expected Result	Actual Result
	SPT-AO-27 Notification of modified device case data.	as expected
Analysis:	Expected results achieved	

5.2.15 SPT-33 (iPhone 3Gs)

Test Case SPT	-33 Mobilyze 1.1		
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 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:	Thu Aug 26 10:16:48 EDT 2010		
Device:	iPhone3Gs		
Source	OS: WIN XP		
Setup:	Interface: cable		
Log Highlights:	follows: 阿 哈拉 - displayed as: ÈòøÊÅ∂ÂlàÊãâ Aurélien - displayed as: Aur√©lien Text messages containing Unicode characters were report	isition started: Thu Aug 26 10:16:48 EDT 2010 g: ess book entries containing Unicode characters were reported as ows: 社立 - displayed as: ÈòøÊÅ∂ÂìàÊãâ lien - displayed as: Aurélien messages containing Unicode characters were reported as follows: 社拉阿・哈拉 - displayed as: ÈòøÊÅ∂ÂìàÊãâ ÈòøÊÅ∂ÂìàÊãâ	
Results:	Assertion & Expected Result	Actual Result	
	SPT-A0-40 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		

5.2.16 SPT-38 (iPhone 3Gs)

SPT-38 Acquire mobile device internal memory and review h	hash values for
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.	
rpa	
P630542	
Thu Aug 26 13:40:58 EDT 2010	
iPhone3Gs	
OS: WIN XP	
Interface: cable	
Created by Mobilyze 1.1 Acquisition started: Thu Aug 26 13:40:58 EDT 2010 Acquisition finished: Thu Aug 26 13:45:42 EDT 2010 Hash values were properly reported for individually acquired device data elements	
Assertion & Expected Result	Actual Result
SPT-AO-43 Acquire data, check known hash values for	as expected
	data objects then the tool shall present the user with a each supported data object. rpa P630542 Thu Aug 26 13:40:58 EDT 2010 iPhone3Gs OS: WIN XP Interface: cable Created by Mobilyze 1.1 Acquisition started: Thu Aug 26 13:40:58 EDT 2010 Acquisition finished: Thu Aug 26 13:45:42 EDT 2010 Hash values were properly reported for individually acqui elements Assertion & Expected Result

About the National Institute of Justice

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

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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.

Dissemination

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

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- 6. Practice fairness and openness in the research and development process.
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