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October 2010

**Test Results for Mobile Device Acquisition Tool:
Zdziarski's Method**

37
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39

40 **Contents**

41

42	Introduction	1
43	How to Read This Report.....	1
44	1 Results Summary.....	3
45	2 Test Case Selection	3
46	3 Results by Test Assertion	5
47	4 Testing Environment	10
48	4.1 Test Computers.....	10
49	4.2 Mobile Devices.....	10
50	4.3 Internal Memory Data Objects	11
51	5 Test Results	12
52	5.1 Test Results Report Key.....	12
53	5.2 Test Details.....	13
54	5.2.1 SPT-01 (iPhone 3Gs).....	13
55	5.2.2 SPT-02 (iPhone 3Gs).....	14
56	5.2.3 SPT-03 (iPhone 3Gs).....	15
57	5.2.4 SPT-05 (iPhone 3Gs).....	16
58	5.2.5 SPT-06 (iPhone 3Gs).....	17
59	5.2.6 SPT-07 (iPhone 3Gs).....	18
60	5.2.7 SPT-08 (iPhone 3Gs).....	19
61	5.2.8 SPT-09 (iPhone 3Gs).....	20
62	5.2.9 SPT-10 (iPhone 3Gs).....	21
63	5.2.10 SPT-11 (iPhone 3Gs).....	22
64	5.2.11 SPT-12 (iPhone 3Gs).....	23
65	5.2.12 SPT-13 (iPhone 3Gs).....	24
66	5.2.13 SPT-32 (iPhone 3Gs).....	25
67	5.2.14 SPT-33 (iPhone 3Gs).....	27
68	5.2.15 SPT-40 (iPhone 3Gs).....	28

69

70 Introduction

71

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

86

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

93

94 This document reports the results from testing Zdziarski's method, against the *Smart*
95 *Phone Tool Test Assertions and Test Plan*, available at the CFTT Web site
96 (www.cfft.nist.gov/mobile_devices.htm).

97

98

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

102

103 How to Read This Report

104

105 This report is divided into five sections. Section 1 is a summary of the results from the
106 test runs. This section is sufficient for most readers to assess the suitability of the tool for
107 the intended use. The remaining sections of the report describe how the tests were
108 conducted and provide documentation of test case run details that support the report
109 summary. Sections 2 and 3 provide justification for the selection of test cases and
110 assertions from the set of possible cases defined in the test plan for smart phone forensic
111 tools. The test cases are selected, in general, based on features offered by the tool.
112 Section 4 lists the hardware and software used to run the test cases. Section 5 contains a

113 description of each test case, test assertions used in the test case, the expected result and
114 the actual result.
115

115 **Test Results for Mobile Device Data Acquisition Tool**

Tool Tested: JZ_Method

Run Environment: Mac OS X 10.5.4

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

116

117 **1 Results Summary**

118 The tested tool acquired all supported data objects completely and accurately from the
119 selected test mobile device (i.e., iPhone 3Gs). No anomalies were found.

120

121 **2 Test Case Selection**

122 Test cases used to test mobile device acquisition tools are defined in *Smart Phone Tool*
123 *Test Assertions and Test Plan Version 1.0*. To test a tool, test cases are selected from the
124 *Test Plan* document based on the features offered by the tool. Not all test cases or test
125 assertions are appropriate for all tools. There is a core set of base cases that are executed
126 for every tool tested. Tool features guide the selection of additional test cases. If a given
127 tool implements a given feature then the test cases linked to that feature are run. Table 1a
128 lists the test cases available for Zdziarski's method. Table 2a lists the test cases not
129 available in Zdziarski's method.

130

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

Supported Test Cases	Cases Selected for Execution
Base Cases	SPT-01, SPT-02, SPT-03, SPT-05, SPT-06, SPT-07, SPT-08, SPT-09, SPT-10, SPT-11, SPT-12, SPT-13
Perform a physical acquisition and review reports for recoverable deleted data.	SPT-32
Acquire mobile device internal memory and review data containing non-ASCII characters.	SPT-33
Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates.	SPT-40

132

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

Unsupported Test Cases	Cases omitted - not executed
Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.	SPT-04
Acquire SIM memory over supported interfaces (e.g., PC/SC reader).	SPT-14

Unsupported Test Cases	Cases omitted - not executed
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 mobile device internal memory and review reported data via supported generated report formats.	SPT-24
Acquire mobile device internal memory and review reported data via the preview pane.	SPT-25
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
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 mobile device internal memory and review hash values for vendor supported data objects.	SPT-38
Acquire SIM memory and review hash values for vendor supported data objects.	SPT-39

135 3 Results by Test Assertion

136 Table 3a summarizes the test results by assertion. The column labeled **Assertion** gives
 137 the text of each assertion. The column labeled **Tests** gives the number of test cases that
 138 use the given assertion. The column labeled **Anomaly** gives the section number in this
 139 report where the anomaly is discussed. No anomalies were found.

140

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

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 device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).	1	
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.	1	
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.	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 acquired data objects in a useable format via either a preview-pane or generated report.	1	
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.	1	
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.	1	
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.	1	
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 presented in a useable format.	1	
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.	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 in a useable format.	1	
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.	1	
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.	1	
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.	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 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 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 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 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 presented in a useable format.	1	
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.	1	
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.	1	
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.	1	
SPT-CA-27 If a cellular forensic tool completes acquisition of the target	1	

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.	1	
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.	2	
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.	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 tool shall acquire each exclusive data object without error.	2	
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.	2	
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.	1	
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.	1	
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.	1	
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.	1	
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.	1	
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.	1	
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	1	

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.	1	
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.	1	
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.	1	
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.	1	

142

143

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

146

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

Assertions Not Tested		
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 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-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.
SPT-AO-25 If a cellular forensic tool completes acquisition of the SIM 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 target device without error then the tool shall present the acquired data in a useable format in a preview-pane view.
SPT-AO-26 If a cellular forensic tool completes acquisition of the SIM 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 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-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-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.

148

149 **4 Testing Environment**

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

153 **4.1 Test Computers**

154 One test computer was used.

155

156 **Magnum** has the following configuration:

157

158 Mac mini

159 Intel Core 2 Duo

160 Processor Speed: 1.83 GHz

161 Memory: 1 GB

162 Boot ROM Version: MM21.009A.B00

163

164 **4.2 Mobile Devices**

165 The following table contains the mobile device used.

166

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

167

168 **4.3 Internal Memory Data Objects**

169 The following data objects were used to populate the internal memory of the smart
 170 phones.
 171

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

Data Objects	Data Elements
Stand-alone data files	
	Audio
	Graphic
	Video
	Audio – Deleted
	Graphic – Deleted
	Video – Deleted
Application Data	
	Device Specific App Data
Location Data	
	GPS Coordinates

172

173 5 Test Results

174 The main item of interest for interpreting the test results is determining the conformance
 175 of the tool with the test assertions. Conformance with each assertion tested by a given test
 176 case is evaluated by examining the **Results** box of the test case details.
 177

178 5.1 Test Results Report Key

179 A summary of the actual test results is presented in this report. The following table
 180 presents a description of each section of the test report summary.
 181

182 **Table 5 Test Results Report Key**

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 and Test Plan</i> .
Assertions:	The test assertions applicable to the test case, selected from <i>Smart Phone Tool Test Assertion and Test Plan</i> .
Tester Name:	Name or initials of person executing test procedure.
Test Host:	Host computer executing the test.
Test Date:	Time and date that test was started.
Device:	Source mobile device.
Source Setup:	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.

183

184 **5.2 Test Details**185 **5.2.1 SPT-01 (iPhone 3Gs)**

Test Case SPT-01 jz method											
Case Summary:	SPT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).										
Assertions:	<p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p>										
Tester Name:	rpa										
Test Host:	Magnum										
Test Date:	Wed Sep 8 10:27:49 EDT 2010										
Device:	iPhone3Gs										
Source Setup:	OS: WIN XP Interface: cable										
Log Highlights:	<p>Created by jz_method</p> <p>Acquisition started: Wed Sep 8 10:27:49 EDT 2010</p> <p>Acquisition finished: Wed Sep 8 10:33:00 EDT 2010</p> <p>Device connectivity was established via supported interface</p>										
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>SPT-CA-01 Device connectivity via supported interfaces.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-04 Readability and completeness of acquired data via supported reports.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-29 Acquire-All data objects acquisition.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-32 Perform back-to-back acquisitions, check device payload for modifications.</td> <td>as expected</td> </tr> </tbody> </table>	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-32 Perform back-to-back acquisitions, check device payload for modifications.	as expected
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-32 Perform back-to-back acquisitions, check device payload for modifications.	as expected										
Analysis:	Expected results achieved										

186

187

187 **5.2.2 SPT-02 (iPhone 3Gs)**

Test Case SPT-02 jz_method					
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 connect to a non-supported device then the tool shall notify the user that the device is not supported.				
Tester Name:	rpa				
Test Host:	Magnum				
Test Date:	Wed Sep 8 10:33:51 EDT 2010				
Device:	unsupported_device				
Source Setup:	OS: WIN XP Interface: cable				
Log Highlights:	Created by jz_method Acquisition started: Wed Sep 8 10:33:51 EDT 2010 Acquisition finished: Wed Sep 8 11:52:21 EDT 2010 Identification of non-supported devices was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>SPT-CA-02 Identification of non-supported devices.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-02 Identification of non-supported devices.	as expected
Assertion & Expected Result	Actual Result				
SPT-CA-02 Identification of non-supported devices.	as expected				
Analysis:	Expected results achieved				

188

189

189 **5.2.3 SPT-03 (iPhone 3Gs)**

Test Case SPT-03 jz_method					
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 forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.				
Tester Name:	rpa				
Test Host:	Magnum				
Test Date:	Wed Sep 8 11:53:43 EDT 2010				
Device:	iPhone3Gs				
Source Setup:	OS: WIN XP Interface: cable				
Log Highlights:	Created by jz_method Acquisition started: Wed Sep 8 11:53:43 EDT 2010 Acquisition finished: Wed Sep 8 11:56:05 EDT 2010 Device acquisition disruption notification was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>SPT-CA-03 Notification of device acquisition disruption.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-03 Notification of device acquisition disruption.	as expected
Assertion & Expected Result	Actual Result				
SPT-CA-03 Notification of device acquisition disruption.	as expected				
Analysis:	Expected results achieved				

190

191

191 **5.2.4 SPT-05 (iPhone 3Gs)**

Test Case SPT-05 jz_method							
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:	Magnum						
Test Date:	Wed Sep 8 12:21:10 EDT 2010						
Device:	iPhone3Gs						
Source Setup:	OS: WIN XP Interface: cable						
Log Highlights:	Created by jz_method Acquisition started: Wed Sep 8 12:21:10 EDT 2010 Acquisition finished: Wed Sep 8 12:34:20 EDT 2010 Subscriber and Equipment related data (i.e., MSISDN, IMEI) were acquired						
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>SPT-CA-05 Acquisition of MSISDN, IMSI.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-06 Acquisition of IMEI/MEID/ESN.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-05 Acquisition of MSISDN, IMSI.	as expected	SPT-CA-06 Acquisition of IMEI/MEID/ESN.	as expected
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						

192

193

193 **5.2.5 SPT-06 (iPhone 3Gs)**

Test Case SPT-06 jz_method																			
Case Summary:	SPT-06 Acquire mobile device internal memory and review reported PIM related data.																		
Assertions:	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>																		
Tester Name:	rpa																		
Test Host:	Magnum																		
Test Date:	Wed Sep 8 12:38:39 EDT 2010																		
Device:	iPhone3Gs																		
Source Setup:	OS: WIN XP Interface: cable																		
Log Highlights:	<p>Created by jz_method</p> <p>Acquisition started: Wed Sep 8 12:38:39 EDT 2010</p> <p>Acquisition finished: Wed Sep 8 12:45:52 EDT 2010</p> <p>All address book entries were successfully acquired</p> <p>ALL PIM related data was acquired</p>																		
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>SPT-CA-07 Acquisition of address book entries.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-08 Acquisition of maximum length address book entries.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-09 Acquisition of address book entries containing special characters.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-10 Acquisition of address book entries containing a blank name entry.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-11 Acquisition of embedded email addresses within address book entries.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-12 Acquisition of embedded graphics within address book entries.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-13 Acquisition of PIM data (i.e., datebook/calendar, notes).</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-14 Acquisition of maximum length PIM data.</td> <td>as expected</td> </tr> </tbody> </table>	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.	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
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.	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																		
Analysis:	Expected results achieved																		

194

195

195 **5.2.6 SPT-07 (iPhone 3Gs)**

Test Case SPT-07 jz_method							
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:	Magnum						
Test Date:	Wed Sep 8 14:07:51 EDT 2010						
Device:	iPhone3Gs						
Source Setup:	OS: WIN XP Interface: cable						
Log Highlights:	Created by jz_method Acquisition started: Wed Sep 8 14:07:51 EDT 2010 Acquisition finished: Wed Sep 8 14:11:16 EDT 2010 All Call Logs (incoming, outgoing, missed) were acquired All Call Log date/time stamps data were correctly reported						
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>SPT-CA-15 Acquisition of call logs.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-16 Acquisition of call log date/time stamps.</td> <td>as expected</td> </tr> </tbody> </table>	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
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						

196

197

197 **5.2.7 SPT-08 (iPhone 3Gs)**

Test Case SPT-08 jz_method											
Case Summary:	SPT-08 Acquire mobile device internal memory and review reported text messages.										
Assertions:	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>										
Tester Name:	rpa										
Test Host:	Magnum										
Test Date:	Wed Sep 8 14:16:06 EDT 2010										
Device:	iPhone3Gs										
Source Setup:	OS: WIN XP Interface: cable										
Log Highlights:	<p>Created by jz_method</p> <p>Acquisition started: Wed Sep 8 14:16:06 EDT 2010</p> <p>Acquisition finished: Wed Sep 8 14:22:50 EDT 2010</p> <p>ALL text messages (SMS, EMS) were acquired</p> <p>Correct date/time stamps were reported for all text messages</p> <p>Correct status flags were reported for all text messages</p> <p>Sender and Recipient phone numbers associated with text messages were correctly reported</p>										
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>SPT-CA-17 Acquisition of text messages.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-18 Acquisition of text message date/time stamps.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-19 Acquisition of text message status flags.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-20 Acquisition of sender/recipient phone number associated with text messages.</td> <td>as expected</td> </tr> </tbody> </table>	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
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										

198
199

199 **5.2.8 SPT-09 (iPhone 3Gs)**

Test Case SPT-09 jz_method									
Case Summary:	SPT-09 Acquire mobile device internal memory and review reported MMS multi-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:	Magnum								
Test Date:	Wed Sep 8 14:23:28 EDT 2010								
Device:	iPhone3Gs								
Source Setup:	OS: WIN XP Interface: cable								
Log Highlights:	Created by jz_method Acquisition started: Wed Sep 8 14:23:28 EDT 2010 Acquisition finished: Wed Sep 8 14:25:42 EDT 2010 ALL MMS messages (Audio, Image, Video) were acquired								
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>SPT-CA-21 Acquisition of audio MMS messages.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-22 Acquisition of graphic data image MMS messages.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-23 Acquisition of video MMS messages.</td> <td>as expected</td> </tr> </tbody> </table>	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
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								

200
201

201 **5.2.9 SPT-10 (iPhone 3Gs)**

Test Case SPT-10 jz_method									
Case Summary:	SPT-10 Acquire mobile device internal memory and review reported stand-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 Name:	rpa								
Test Host:	Magnum								
Test Date:	Thu Sep 9 07:47:56 EDT 2010								
Device:	iPhone3Gs								
Source Setup:	OS: WIN XP Interface: cable								
Log Highlights:	Created by jz_method Acquisition started: Thu Sep 9 07:47:56 EDT 2010 Acquisition finished: Thu Sep 9 08:09:30 EDT 2010 ALL stand-alone data files (Audio, Image, Video) were acquired								
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>SPT-CA-24 Acquisition of stand-alone audio files.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-25 Acquisition of stand-alone graphic files.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-26 Acquisition of stand-alone video files.</td> <td>as expected</td> </tr> </tbody> </table>	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
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								

202

203

203 **5.2.10 SPT-11 (iPhone 3Gs)**

Test Case SPT-11 jz_method					
Case Summary:	SPT-11 Acquire mobile device internal memory and review application related data (i.e., word documents, spreadsheet, presentation documents).				
Assertions:	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.				
Tester Name:	rpa				
Test Host:	Magnum				
Test Date:	Thu Sep 9 08:11:19 EDT 2010				
Device:	iPhone3Gs				
Source Setup:	OS: WIN XP Interface: cable				
Log Highlights:	<p>Created by jz_method Acquisition started: Thu Sep 9 08:11:19 EDT 2010 Acquisition finished: Fri Sep 10 14:54:45 EDT 2010</p> <p>Partial Application data was acquired</p> <p>Notes: Partial data (i.e., filename) was recovered. Application data was pushed onto the device an email attachment. For data types that the iphone does not natively support the attachments are opened with via Safari and not saved to flash memory.</p>				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>SPT-CA-27 Acquisition of application related data.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-27 Acquisition of application related data.	as expected
Assertion & Expected Result	Actual Result				
SPT-CA-27 Acquisition of application related data.	as expected				
Analysis:	Expected results achieved				

204

205

205 **5.2.11 SPT-12 (iPhone 3Gs)**

Test Case SPT-12 jz_method					
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:	Magnum				
Test Date:	Mon Sep 13 10:01:23 EDT 2010				
Device:	iPhone3Gs				
Source Setup:	OS: WIN XP Interface: cable				
Log Highlights:	Created by jz_method Acquisition started: Mon Sep 13 10:01:23 EDT 2010 Acquisition finished: Mon Sep 13 10:29:04 EDT 2010 All Internet related data was acquired				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>SPT-CA-28 Acquisition of Internet related data.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-28 Acquisition of Internet related data.	as expected
Assertion & Expected Result	Actual Result				
SPT-CA-28 Acquisition of Internet related data.	as expected				
Analysis:	Expected results achieved				

206

207

207 **5.2.12 SPT-13 (iPhone 3Gs)**

Test Case SPT-13 jz_method									
Case Summary:	SPT-13 Acquire mobile device internal memory by selecting a combination of 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:	Magnum								
Test Date:	Fri Sep 10 15:05:32 EDT 2010								
Device:	iPhone3Gs								
Source Setup:	OS: WIN XP Interface: cable								
Log Highlights:	Created by jz_method Acquisition started: Fri Sep 10 15:05:32 EDT 2010 Acquisition finished: Fri Sep 10 15:06:13 EDT 2010 Acquire All acquisition was successful								
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>SPT-CA-29 Acquire-All data objects acquisition.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-30 Select-All data objects acquisition.</td> <td>as expected</td> </tr> <tr> <td>SPT-CA-31 Select-Individual data objects acquisition.</td> <td>as expected</td> </tr> </tbody> </table>	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
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								

208

209

209 **5.2.13 SPT-32 (iPhone 3Gs)**

Test Case SPT-32 jz_method											
Case Summary:	SPT-32 Perform a physical acquisition and review reports for recoverable deleted data.										
Assertions:	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>										
Tester Name:	rpa										
Test Host:	Magnum										
Test Date:	Mon Sep 13 15:01:12 EDT 2010										
Device:	iPhone3Gs										
Source Setup:	OS: WIN XP Interface: cable										
Log Highlights:	<p>Created by jz_method Acquisition started: Mon Sep 13 15:01:12 EDT 2010 Acquisition finished: Mon Sep 13 15:07:39 EDT 2010</p> <p>Deleted address book entries were not recovered Deleted PIM data was recovered Deleted PIM data was not recovered Deleted Call log data was recovered Deleted Call log data was not recovered Deleted text message data was recovered Deleted audio data was recovered Deleted graphic data was recovered Deleted video data was recovered</p>										
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>SPT-AO-32 Physical acquisition, recovery of deleted address book entries.</td> <td>as expected</td> </tr> <tr> <td>SPT-AO-33 Physical acquisition, recovery of deleted PIM data.</td> <td>as expected</td> </tr> <tr> <td>SPT-AO-34 Physical acquisition, recovery of deleted call logs.</td> <td>as expected</td> </tr> <tr> <td>SPT-AO-35 Physical acquisition, recovery of deleted SMS</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-AO-32 Physical acquisition, recovery of deleted address book entries.	as expected	SPT-AO-33 Physical acquisition, recovery of deleted PIM data.	as expected	SPT-AO-34 Physical acquisition, recovery of deleted call logs.	as expected	SPT-AO-35 Physical acquisition, recovery of deleted SMS	as expected
Assertion & Expected Result	Actual Result										
SPT-AO-32 Physical acquisition, recovery of deleted address book entries.	as expected										
SPT-AO-33 Physical acquisition, recovery of deleted PIM data.	as expected										
SPT-AO-34 Physical acquisition, recovery of deleted call logs.	as expected										
SPT-AO-35 Physical acquisition, recovery of deleted SMS	as expected										

Test Case SPT-32 jz_method		
	messages.	
	SPT-AO-36 Physical acquisition, recovery of deleted EMS messages.	as expected
	SPT-AO-37 Physical acquisition, recovery of deleted stand-alone audio files.	as expected
	SPT-AO-38 Physical acquisition, recovery of deleted graphic files.	as expected
	SPT-AO-39 Physical acquisition, recovery of deleted video files.	as expected
Analysis:	Expected results achieved	

210

211

211 **5.2.14 SPT-33 (iPhone 3Gs)**

Test Case SPT-33 jz_method							
Case Summary:	SPT-33 Acquire mobile device internal memory and review data containing 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:	Magnum						
Test Date:	Mon Sep 13 10:45:37 EDT 2010						
Device:	iPhone3Gs						
Source Setup:	OS: WIN XP Interface: cable						
Log Highlights:	Created by jz_method Acquisition started: Mon Sep 13 10:45:37 EDT 2010 Acquisition finished: Mon Sep 13 10:52:21 EDT 2010 Non-ASCII Address book entries were acquired and properly displayed Non-ASCII text messages were acquired and properly displayed						
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>SPT-AO-40 Acquisition of non-ASCII address book entries/ADNs.</td> <td>as expected</td> </tr> <tr> <td>SPT-AO-41 Acquisition of non-ASCII text messages.</td> <td>as expected</td> </tr> </tbody> </table>	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
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						

212

213

213 **5.2.15 SPT-40 (iPhone 3Gs)**

Test Case SPT-40 jz_method					
Case Summary:	SPT-40 Acquire mobile device internal memory and review data containing GPS 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:	Magnum				
Test Date:	Mon Sep 13 10:29:55 EDT 2010				
Device:	iPhone3Gs				
Source Setup:	OS: WIN XP Interface: cable				
Log Highlights:	Created by jz_method Acquisition started: Mon Sep 13 10:29:55 EDT 2010 Acquisition finished: Mon Sep 13 10:37:29 EDT 2010 GPS Coordinate data was successfully acquired				
Results:	<table border="1"> <thead> <tr> <th>Assertion & Expected Result</th> <th>Actual Result</th> </tr> </thead> <tbody> <tr> <td>SPT-AO-44 Acquire data, check GPS data for consistency.</td> <td>as expected</td> </tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-AO-44 Acquire data, check GPS data for consistency.	as expected
Assertion & Expected Result	Actual Result				
SPT-AO-44 Acquire data, check GPS data for consistency.	as expected				
Analysis:	Expected results achieved				

214

215