

Lantern v4.6.8

Test Results for Mobile Device Acquisition Tool *July 23, 2017*





Test Results for Mobile Device Acquisition Tool:

Lantern v4.6.8

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Introduction

The Computer Forensics Tool Testing (CFTT) program is a joint project of the Department of Homeland Security (DHS), the National Institute of Justice, and the National Institute of Standards and Technology (NIST) Special Program Office and Information Technology Laboratory. CFTT is supported by other organizations, including the Federal Bureau of Investigation, the U.S. Department of Defense Cyber Crime Center, U.S. Internal Revenue Service Criminal Investigation Division Electronic Crimes Program, and the U.S. 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. The CFTT approach to testing computer forensics tools is based on well-recognized methodologies for conformance and quality testing. Interested parties in the computer forensics community can review and comment on the specifications and test methods posted on the CFTT Web site (http://www.cftt.nist.gov/).

This document reports the results from testing Lantern v4.6.8 across supported mobile devices.

Test results from other tools can be found on the DHS S&T-sponsored digital forensics web page, http://www.dhs.gov/science-and-technology/nist-cftt-reports.

How to Read This Report

This report is divided into four sections. Section 1 identifies and provides a summary of any significant anomalies observed in the test runs. This section is sufficient for most readers to assess the suitability of the tool for the intended use. Section 2 identifies the mobile devices used for testing. Section 3 lists testing environment, the internal memory data objects used to populate the mobile devices. Section 4 provides an overview of the test case results reported by the tool. The full test data is available at http://www.cftt.nist.gov/mobile_devices.htm.

Test Results for Mobile Device Acquisition Tool

Tool Tested: Lantern

Software Version: v4.6.8

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1 Results Summary

Katana Forensics – Lantern 4 provides users with the ability to acquire and analyze Android and iOS devices with an integrated file system viewer.

Lantern 4 was tested for its ability to acquire active data from the internal memory of supported mobile devices. Except for the following anomalies, the tool acquired all supported data objects completely and accurately for all mobile devices tested.

Connectivity:

- Connectivity was not established. (Devices: *iPhone 5S, iPad Air*) *Note: Connectivity issues have been addressed in Lantern v 4.6.9.*
- An error message is not generated when mobile device connectivity is disrupted during acquisition. (Devices: *Android*, *iOS*)

Subscriber, Equipment related data:

- The MSISDN and IMEI are not reported. (Devices: Android, iPhone 4)
- The IMEI is not reported. (Devices: *iPhone6S Plus, iPhone 7, iPhone 7 Plus, iPad Mini, iPad Pro*)

Personal Information Management (PIM) data:

- Metadata (i.e., graphics) for Address Book/Contact entries were not reported with the associated entry. (Devices: *Android*)
- The *Middle* name field for Address book/Contact entries is not reported in the preview pane or generated report. (Devices: *iPhone 6S Plus, iPhone 7, iPhone 7 Plus, iPad Mini, iPad Pro*)
- Memos are not reported within the preview pane. Note: found within the *Files* folder Long memos are truncated. (Device: *Galaxy S3*)
- Memos are not reported. (Device: *iPhone 6S Plus*) Note: Memos were recovered for all other *iOS devices*.
- · Call logs are not classified with a status i.e., *Incoming, Outgoing, or Missed.* (Device: *LG G5*)

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- · All phone numbers for Contact entries included in Group text messages (SMS, EMS) are not reported. (Devices: *iPhone 6S Plus, iPhone 7, iPhone 7 Plus, iPad Mini, iPad Pro*)
- Recovered *deleted* text messages are not marked with a status of *deleted*. (Device: *LG G5*)

Stand-alone Files:

- Audio files are not reported. (Devices: *LG G5*) *Note: Audio files are reported for all other Android devices*.
- · Video files are not reported. (Device: *iPhone 4*) *Note: Video files are reported for all other iOS devices.*

Internet Related Data:

Internet related data (i.e., bookmarks, history) were not reported. (Devices: LG G5, Samsung J3, Google Pixel XL, Samsung GS7, HTC 10, Samsung GS7 Edge, Galaxy Note3, Ellipsis 8)

GPS:

• GPS related data (e.g., longitude, latitude coordinates associated with a route or location) using the devices native "Maps" application was not reported. (Devices: Galaxy S3, Galaxy S5, Galaxy Note 3, Galaxy Tab E, iPhone 6S Plus, iPad Mini, iPad Pro)

For more test result details see section 4.

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2 Mobile Devices

The following table lists the mobile devices used for testing Lantern v4.6.8.

Make	Model	OS	Firmware	Network
Apple iPhone	4	iOS v4.3.3 (8J2)	04.10.01	GSM
Apple iPhone	5S	iOS 7.1 (11D167)	2.18.02	CDMA
Apple iPhone	6S Plus	iOS 9.2.1 (13C75)	1.23.00	CDMA
Apple iPhone	7	iOS 10.2 (14C92)	1.33.00	CDMA
Apple iPhone	7 Plus	iOS 10.2 (14C92)	1.33.00	CDMA
Apple iPad	Mini	iOS 9.2.1 (13B143)	4.32.00	CDMA
Apple iPad	Air	iOS 7.1 (11D167)	2.18.02	CDMA
Apple iPad	Pro	iOS 9.2.1 (13C75)	4.52.00	CDMA
Samsung Galaxy	S3 SGH-1747	Android 4.1.2	1747UCDMG2	GSM
Samsung Galaxy	S5 SM-G900V	Android 4.2.2	G900V.05	CDMA
LG	G5	Android 6.0.1	MMB29M	CDMA
Motorola Droid	Turbo2	Android 5.1.1	LCK23.130-23	CDMA
Samsung Galaxy	S6 Edge Plus – SM-G928V	Android 5.1.1	LMY47X.G928VVRU2AOJ2	CDMA
Samsung J3	J3 – SM-J320V	Android 6.0.1	MMB29M.J320VVRU2AP12	CDMA
Google Pixel XL	XL	Android 7.1.1	NMF26U	CDMA
Samsung GS7	GS7 – SM-G930V	Android 6.0.1	MMB29M.G930VVRU4AP13	CDMA
HTC 10	HTC6545LVW	Android 6.0.1	1.85.605.8.8.0_g CL774095	CDMA
Samsung GS7 Edge	GS7 Edge SM- 935V	Android 6.0.1	MMB29M.G935VVRS4APH1	CDMA
Samsung Galaxy Note 3	SM-N900V	Android 4.4.2	KOT49H.N900VVRUCNC4	CDMA
Samsung Galaxy	Tab S2	Android 5.1.1	LMY47X.T817BVRU2AOJ2	CDMA
Samsung Galaxy	Tab-E	Android 5.1.1	LMY47X.T567VVRU1AOH1	CDMA
Ellipsis 8	QTAQZ3	Android 4.4.2	КОТ49Н	CDMA

Table 1: Mobile Devices

3 Testing Environment

The tests were run in the NIST CFTT lab. This section describes the selected test execution environment, and the data objects populated onto the internal memory of mobile devices.

3.1 Execution Environment

Lantern v4.6.8 was installed on Windows 7 v6.1.7601.

3.2 Internal Memory Data Objects

Lantern v4.6.8 was measured by analyzing acquired data from the internal memory of pre-populated mobile devices. Table 2 defines the data objects and elements used for populating mobile devices provided the mobile device supports the data element.

Data Objects	Data Elements
Address Book Entries	Regular Length
	Maximum Length
	Special Character
	Blank Name
	Regular Length, email
	Regular Length, graphic
	Regular Length, Address
	Deleted Entry
	Non-Latin Entry
	Contact Groups
PIM Data: Datebook/Calendar; Memos	Regular Length
	Maximum Length
	Deleted Entry
	Special Character
	Blank Entry
Call Logs	Incoming
	Outgoing
	Missed
	Incoming – Deleted
	Outgoing – Deleted
T 13.6	Missed - Deleted
Text Messages	Incoming SMS – Read
	Incoming SMS – Unread
	Outgoing SMS
	Incoming EMS – Read
	Incoming EMS – Unread
	Outgoing EMS Deleted
	Incoming SMS – Deleted
	Outgoing SMS – Deleted
	Incoming EMS – Deleted

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Data Objects	Data Elements
	Outgoing EMS – Deleted
	Non-Latin SMS/EMS
MMS Messages	Incoming Audio
	Incoming Graphic
	Incoming Video
	Outgoing Audio
	Outgoing Graphic
	Outgoing Video
Application Data	Device Specific App Data
Stand-alone data files	Audio
	Graphic
	Video
	Audio – Deleted
	Graphic - Deleted
	Video - Deleted
Internet Data	Visited Sites
	Bookmarks
	E-mail
Location Data	GPS Coordinates
	Geo-tagged Data
Social Media Data	Facebook
	Twitter
	LinkedIn
	Instagram

Table 2: Internal Memory Data Objects

4 Test Results

This section provides the test cases results reported by the tool. Sections 4.1 - 4.4 identify the mobile device operating system type, media (e.g., Android, iOS) and the make and model of mobile devices used for testing Lantern v4.6.8.

The *Test Cases* column (internal memory acquisition) in sections 4.1 - 4.4 are comprised of two sub-columns that define a particular test category and individual sub-categories that are verified when acquiring the internal memory for supported mobile devices and Universal Integrated Circuit Cards (UICCs) within each test case. Each individual sub-category row results for each mobile device/UICC tested. The results are as follows:

As Expected: the mobile forensic application returned expected test results – the tool acquired and reported data from the mobile device/UICC successfully.

Partial: the mobile forensic application returned some of data from the mobile device/UICC.

Not As Expected: the mobile forensic application failed to return expected test results – the tool did not acquire or report supported data from the mobile device/UICC successfully.

NA: Not Applicable – the mobile forensic application is unable to perform the test or the tool does not provide support for the acquisition for a particular data element.

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4.1 Android Mobile Devices

The internal memory contents for Android devices were acquired and analyzed with Lantern v4.6.8.

All test cases pertaining to the acquisition of supported Android devices were successful with the exception of the following.

- An error message is not generated when mobile device connectivity is disrupted during data extraction for all Android devices.
- Subscriber and Equipment related data (i.e., MSISDN, IMEI) are not reported for all Android devices.
- · Graphic files associated with Contacts are not reported for all Android devices.
- · Call logs are not classified with a status i.e., *Incoming, Outgoing* or *Missed* for the LG G5.
- Recovered *deleted* text messages are not marked with a status of deleted for the LG G5.
- · Audio files are not reported for the LG G5.
- · Internet related data (i.e., bookmarks, history) are not reported for the LG G5, Samsung J3, Google Pixel XL, Samsung GS7, HTC 10, Samsung GS7 Edge, Galaxy Note 3, and the Ellipsis 8.
- · GPS related data created using the device's native *Map* application is not reported for the Galaxy S3, Galaxy S5, Galaxy Note3 and the Galaxy Tab E

See Table 3 and Table 4 below for more details.

	Lantern v4.6.8									
				Mobile De	vice Platforr	n: Android				
Test Cases – Internal Memory Acquisition		Galaxy S3	Galaxy S5	TG G2	Moto Droid Turbo 2	Galaxy S6 Edge +	Samsung J3	Google Pixel XL		
	Acquire All	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected		
Acquisition	Disrupted	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected		
D 4	Preview Pane	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected		
Reporting	Generated Reports	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected		
	IMEI	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected		
Equipment/ User Data	MEID/ESN	NA	NA	NA	NA	NA	NA	NA		
2342 2	MSISDN	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected		
PIM Data	Contacts	Partial	Partial	Partial	Partial	Partial	Partial	Partial		

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	Lantern v4.6.8									
		Mobile Device Platform: Android								
	s – Internal Acquisition	Galaxy S3	Galaxy S5	TG GS	Moto Droid Turbo 2	Galaxy S6 Edge +	Samsung J3	Google Pixel XL		
	Calendar	As	As	As	As	As	As	As		
	Memos/Notes	Expected NA	Expected NA	Expected NA	Expected NA	Expected NA	Expected NA	Expected NA		
	Incoming	As Expected	As Expected	Partial	As Expected	As Expected	As Expected	As Expected		
Call Logs	Outgoing	As Expected	As Expected	Partial	As Expected	As Expected	As Expected	As Expected		
	Missed	As Expected	As Expected	Partial	As Expected	As Expected	As Expected	As Expected		
SMS	Incoming	As Expected	As Expected	Partial	As Expected	As Expected	As Expected	As Expected		
Messages	Outgoing	As Expected	As Expected	Partial	As Expected	As Expected	As Expected	As Expected		
MAKG	Graphic	NA	NA	NA	NA	NA	NA	NA		
MMS Messages	Audio	NA	NA	NA	NA	NA	NA	NA		
	Video	NA	NA	NA	NA	NA	NA	NA		
	Graphic	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected		
Stand-alone Files	Audio	As Expected	As Expected	Not As Expected	As Expected	As Expected	As Expected	As Expected		
	Video	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected		
Application Data	Documents (txt, pdf files)	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected		
	Facebook	NA	NA	NA	NA	NA	NA	NA		
Social	Twitter	NA	NA	NA	NA	NA	NA	NA		
Media Data	LinkedIn	NA	NA	NA	NA	NA	NA	NA		
	Instagram	NA	NA	NA	NA	NA	NA	NA		
	Bookmarks	As Expected	As Expected	Not As Expected	As Expected	As Expected	Not As Expected	Not As Expected		
Internet Data	History	As Expected	As Expected	Not As Expected	As Expected	As Expected	Not As Expected	Not As Expected		
	Email	NA	NA	NA	NA	NA	NA	NA		
GPS Data	Coordinates/ Geo-tagged	Not As Expected	Not As Expected	As Expected	As Expected	As Expected	As Expected	As Expected		

Lantern v4.6.8								
				Mobile De	vice Platforr	n: Android		
	s — Internal Acquisition	g g g				Google Pixel XL		
Non-Latin Character	Reported in native format	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected
Hashing	Case File/ Individual Files	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected
Case File Data Protection	Modify Case Data	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected

Table 3: Android Mobile Devices

Lantern v4.6.8									
				Mobile De	vice Platforr	n: Android			
Test Cases – Internal Memory Acquisition		Samsung GS7	HTC 10	Samsung GS7 Edge	Galaxy Note 3	Galaxy Tab S2	Galaxy Tab E	Ellipsis 8	
	Acquire All	As							
Acquisition	Disrupted	Expected Not As Expected							
Reporting	Preview Pane	As Expected							
Keporung	Generated Reports	As Expected							
	IMEI	Not As Expected							
Equipment/ User Data	MEID/ESN	NA							
OSCI Data	MSISDN	Not As Expected							
	Contacts	Partial							
PIM Data	Calendar	As Expected							
	Memos/Notes	Not As Expected							
Call Logs	Incoming	As Expected	As Expected	As Expected	As Expected	NA	NA	NA	

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	Lantern v4.6.8									
		Mobile Device Platform: Android								
	s – Internal Acquisition	Samsung GS7	HTC 10	Samsung GS7 Edge	Galaxy Note 3	Galaxy Tab S2	Galaxy Tab E	Ellipsis 8		
	Outgoing	As Expected	As Expected	As Expected	As Expected	NA	NA	NA		
	Missed	As Expected	As Expected	As Expected	As Expected	NA	NA	NA		
SMS	Incoming	As Expected	As Expected	As Expected	As Expected	NA	NA	NA		
Messages	Outgoing	As Expected	As Expected	As Expected	As Expected	NA	NA	NA		
	Graphic	NA	NA	NA	NA	NA	NA	NA		
MMS Messages	Audio	NA	NA	NA	NA	NA	NA	NA		
O	Video	NA	NA	NA	NA	NA	NA	NA		
	Graphic	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected		
Stand-alone Files	Audio	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected		
	Video	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected		
Application Data	Documents (txt, pdf files)	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected		
	Facebook	NA	NA	NA	NA	NA	NA	NA		
Social	Twitter	NA	NA	NA	NA	NA	NA	NA		
Media Data	LinkedIn	NA	NA	NA	NA	NA	NA	NA		
	Instagram	NA	NA	NA	NA	NA	NA	NA		
	Bookmarks	Not As Expected	Not As Expected	Not As Expected	Not As Expected	As Expected	As Expected	Not As Expected		
Internet Data	History	Not As Expected	Not As Expected	Not As Expected	Not As Expected	As Expected	As Expected	Not As Expected		
	Email	NA	NA	NA NA	NA NA	NA	NA NA	NA NA		
GPS Data	Coordinates/ Geo-tagged	As Expected	As Expected	As Expected	Not As Expected	As Expected	Not As Expected	As Expected		
Non-Latin Character	Reported in native format	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected		
Hashing	Case File/ Individual Files	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected		

Lantern v4.6.8								
				Mobile De	vice Platforr	n: Android		
	s — Internal Acquisition	Samsung GS7	HTC 10	Samsung GS7 Edge	Galaxy Note 3	Galaxy Tab S2	Galaxy Tab E	Ellipsis 8
Case File	Modify Case	As	As	As	As	As	As	As
Data Protection	Data	Expected	Expected	Expected	Expected	Expected	Expected	Expected

Table 4: Android Mobile Devices

4.2 iOS Mobile Devices

The internal memory contents for iOS devices were acquired and analyzed with Lantern v4.6.8.

All test cases pertaining to the acquisition of supported iOS devices were successful with the exception of the following across all iOS devices.

- · Connectivity was not established for the iPhone 5s and iPad Air.
- · An error message is not generated when mobile device connectivity is disrupted during data extraction for all iOS devices.
- Subscriber and Equipment related data (i.e., MSISDN, IMEI) are not reported for the iPhone 4.
- Equipment related data (i.e., IMEI) is not reported for the iPhone 6S Plus, iPhone 7, iPhone 7 Plus, iPad Mini and iPad Pro.
- · Contact entries containing fields for *FIRST*, *MIDDLE* and *LAST* name are not reported completely for the iPhone 6S Plus, iPhone 7, iPhone 7 Plus, iPad Mini, and iPad Pro. The *MIDDLE* name field is not included. *Note: contacts can be viewed completely within the AddressBook.db.sqlite file*.
- Memos are not reported for the iPhone 6S Plus.
- · All contact entries/phone numbers are not reported for outgoing group SMS messages for the iPhone 6S Plus, iPhone 7, iPhone 7 Plus, iPad Mini and the iPad Pro
- Stand-alone video files are not reported for the iPhone 4.
- Social media related data (i.e., Facebook, Twitter, Instagram) are not reported for the iPhone 6S Plus, iPhone 7, iPhone 7 Plus, iPad Mini and the iPad Pro.
- GPS related data created using the device's native *Map* application is not reported for the iPhone 6S Plus, iPad Mini and the iPad Pro.

See Table 5 below for more details.

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	Lantern v4.6.8											
		Mobile Device Platform: iOS										
	s – Internal Acquisition	iPhone 4	iPhone 6S Plus	iPhone 7	iPhone 7 Plus	iPad Mini	iPad Pro					
	Acquire All	As	As	As	As	As	As					
Acquisition	Disrupted	Expected Not As Expected	Expected Not As Expected	Expected Not As Expected	Expected Not As Expected	Expected Not As Expected	Expected Not As Expected					
Reporting	Preview-Pane	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected					
Reporting	Generated	As	As	As	As	As	As					
	Reports	Expected	Expected	Expected	Expected	Expected	Expected					
	IMEI	Not As	Not As	Not As	Not As	Not As	Not As					
Equipment/ User Data	MEID/ESN	Expected NA	Expected NA	Expected NA	Expected NA	Expected NA	Expected NA					
	MSISDN	Not As Expected	As Expected	As Expected	As Expected	As Expected	As Expected					
	Contacts	As Expected	Partial	Partial	Partial	Partial	Partial					
PIM Data	Calendar	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected					
	Memos/Notes	As Expected	Not As Expected	As Expected	As Expected	As Expected	As Expected					
	Incoming	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected					
Call Logs	Outgoing	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected					
	Missed	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected					
SMS	Incoming	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected					
Messages	Outgoing	As Expected	Partial	Partial	Partial	Partial	Partial					
	Graphic	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected					
MMS Messages	Audio	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected					
	Video	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected					
	Graphic	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected					
Stand-alone Files	Audio	NA	NA	NA	NA	NA	NA					
	Video	Not As Expected	As Expected	As Expected	As Expected	As Expected	As Expected					
Application Data	Documents (txt, pdf files)	NA	NA	NA	NA	NA	NA					

	Lantern v4.6.8										
		Mobile Device Platform: iOS									
Test Cases – Internal Memory Acquisition		iPhone 4	iPhone 6S Plus	iPhone 7	iPhone 7 Plus	iPad Mini	iPad Pro				
	Facebook	NA	NA	NA	NA	NA	NA				
Social Media Data	Twitter	NA	NA	NA	NA	NA	NA				
	LinkedIn	NA	NA	NA	NA	NA	NA				
	Instagram	NA	NA	NA	NA	NA	NA				
	Bookmarks	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected				
Internet Data	History	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected				
	Email	As Expected	NA	NA	NA	NA	NA				
GPS Data	Coordinates/ Geo-tagged	As Expected	Not As Expected	As Expected	As Expected	Not As Expected	Not As Expected				
Non-Latin Character	Reported in native format	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected				
Hashing	Case File/ Individual Files	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected				
Case File Data Protection	Modify Case Data	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected				

Table 5: iOS Mobile Devices

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