Test Results for Mobile Device Acquisition Tool: Data Pilot Desktop v2.0.112

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Introduction

The Computer Forensics Tool Testing (CFTT) program is a joint project of the Department of Homeland Security's (DHS) Science and Technology Directorate, the National Institute of Justice, and the National Institute of Standards and Technology's (NIST) Special Programs 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's Criminal Investigation Division Electronic Crimes Program, and 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 website (https://www.cftt.nist.gov/).

This document reports the results from testing Data Pilot Desktop v2.0.112 across supported mobile devices.

Test results from other tools can be found on the DHS S&T-sponsored digital forensics webpage, 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.

Test Results for Mobile Device Acquisition Tool

Tool Tested: Data Pilot Desktop

Software Version: v2.0.112

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1 Results Summary

Data Pilot Desktop v2.0.112 was tested for its ability to acquire active data from the internal memory of supported mobile devices.

The data reported for the devices below varies based upon the data extraction technique supported. For instance, a physical and/or file system extraction will provide the user with more data than a logical extraction. Each supported data extraction technique was performed. Except for the following anomalies, the tool acquired all supported data objects completely and accurately for all mobile devices tested.

Equipment related data:

IMEI is not reported. (Devices: Google Pixel 4, Google Pixel 6 Pro, Galaxy S10)

Personal Information Management (PIM) data:

- Contacts are not reported. (Devices: Google Pixel 6, Google Pixel 6 Pro, One Plus 10 Pro)
- Notes or Memo entries are not reported. (Devices: Google Pixel 4, Google Pixel 6, Google Pixel 6 PRO, Galaxy S9, Galaxy S10, Galaxy Note 8, One Plus 9, One Plus 10 Pro, Galaxy Note 10, Huawei P20 Pro)
- Notes or Memo entries are partially reported. (Devices: *all iOS*)

MMS Messages:

MMS message with audio file attachments is partially reported. (Devices: *Huawei P20 Pro, iPhone 13 Mini*)

Social media Data:

- Social media related data (Facebook, LinkedIn, Instagram, Pinterest, SnapChat) is not reported. (Devices: Google Pixel 4, Galaxy S9, Galaxy S10, Galaxy Note 8, Galaxy Note 10, Huawei P20 Pro)
- Social media related data (Twitter, WhatsApp) is partially reported. (Devices: Google Pixel 4, Galaxy S10, Galaxy Note 8, Galaxy Note 10)
- Social media related data (Facebook, Twitter, LinkedIn, Instagram, Pinterest, SnapChat) is not reported. (Devices: *Google Pixel 6, Google Pixel 6 Pro, One Plus 9, One Plus 10 Pro, iPhone XR, iPhone 8, iPhone SE, iPhone 11, iPhone 13 Pro, iPhone 13 Pro Max, iPhone 13 Mini*)
- Social media related data (Facebook) is partially reported. (Device: *iPhone X*)
- Social media related data (Twitter, LinkedIn, Instagram, Pinterest, SnapChat) is not reported. (Device: *iPhone X*)
- Social media related data (WhatsApp) is not reported. (Devices: Galaxy S9, One Plus 9, Huawei P20 Pro)
- Social media related data (TikTok) is partially reported. (Device: One Plus 9
- Social media related data (WhatsApp) is partially reported. (Devices: *Google Pixel 6, Google Pixel 6 Pro, One Plus 10 Pro*)
- Social media related data (TikTok) is not reported. (Device: *One Pus 10 Pro*)
- Social media related data (Twitter) is partially reported. (Devices: Galaxy S9, Huawei P20 Pro)

Internet Data:

- Internet data (browser history, bookmarks, emails) is not reported. (Devices: Google Pixel 4, Google Pixel 6, Google Pixel 6 Pro, Galaxy S9, Galaxy S10, Galaxy Note 8, One Plus 9, One Plus 10 Pro, Galaxy Note 10, Huawei P20 Pro)
- Internet data (browser history) is not reported. (Devices: *iPhone 8, iPhone XR*)

GPS Location Data:

- GPS related data (coordinates, locations, geo-tagged pictures) is not reported. (Devices: Google Pixel 4, Google Pixel 6, Google Pixel 6 Pro, Galaxy S9, Galaxy S10, One Plus 9, One Plus 10 Pro, Galaxy Note 10, Huawei P20 Pro)
- GPS related data (coordinates, locations) is not reported. (Devices: *iPhone 8, iPhone XR, iPhone SE, iPhone 11, iPhone 13 Mini*)

NOTE:

- Complete Acquisition was selected as acquisition method for all devices.
- The tool was unable to report data from the following devices: Galaxy S22, Galaxy ZFold 3 5G, iPhone 13 (after 3 attempts data parsing from iTunes backup failed).

For more test result details see section 4.

2 Mobile Devices

The following table lists the mobile devices used for testing Data Pilot Desktop v2.0.112.

Make	Model Name	OS	Model #	CDMA
Apple iPhone	8	iOS 11.3.1	15E302	CDMA
Apple iPhone	X	iOS 11.3.1	15E302	CDMA
Apple iPhone	XR	iOS 15.1	NQCK2LL/A	CDMA
Apple iPhone	SE	iOS 15.1	MX9N2LL/A	CDMA
Apple iPhone	11	iOS 15.1	15E302	CDMA
Apple iPhone	13 Mini	iOS 15.6	MNGD3LL/A	CDMA
Apple iPhone	13 Pro	iOS 15.6	MNDT3LL/A	CDMA
Apple iPhone	13 Pro Max	iOS 15.6	MNCP34LL/A	CDMA
Google	Pixel 4	Android 10	G0201	CDMA
Google	Pixel 6	Android 12	GR1YH	CDMA
Google	Pixel 6 Pro	Android 12	GF5KQ	CDMA
Samsung Galaxy	S9	Android 8.0.0	SM-G960U1	CDMA
Samsung Galaxy	S10	Android 9	SM-G973U1	CDMA
Samsung Galaxy	Note 8	Android 7.1.1	SM-N950U1	CDMA
Samsung Galaxy	Note 10	Android 9	SM-N97OU1	CDMA
Huawei	P20 Pro	Android 8.1.0	CLTL2981010 6 (C636)	CDMA
One Plus	9	Android 11	LE2115	CDMA
One Plus	10 Pro	Android 12	NE2215	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

Data Pilot Desktop v2.0.112 was installed on Windows 10 Pro version 10.0.19044 Build 19044.

3.2 Internal Memory Data Objects

Data Pilot Desktop v2.0.112 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 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-Latin SMS/EMS
MMS Messages	Incoming Audio Incoming Graphic Incoming Video Outgoing Audio Outgoing Graphic Outgoing Video

Data Objects	Data Elements
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 Pinterest SnapChat WhatsApp

Table 2: Internal Memory Data Objects

4 Test Results

This section provides the test cases results reported by the tool. Sections 4.1 - 4.2 identify the mobile device operating system type, media type such as Android and iOS, the make and model of mobile devices used for testing Data Pilot Desktop v2.0.112.

The *Test Cases* column (internal memory acquisition) in sections 4.1 - 4.2 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 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 tool does not provide support for the acquisition for a particular data element.

4.1 Android Mobile Devices

The internal memory contents for Android devices were acquired and analyzed with Data Pilot Desktop v2.0.112. All test cases pertaining to the acquisition of supported Android devices were successful except for the following across all Android devices.

- Equipment related data (IMEI number) is not reported for the Google Pixel 4, Pixel 6 Pro and Galaxy S10.
- Contacts are not reported for the Google Pixel 6, Google Pixel 6 Pro and One Plus 10 Pro.
- Memo entries are not reported for the Google Pixel 4, Google Pixel 6, Google Pixel 6 PRO, Galaxy S9, Galaxy S10, Galaxy Note 8, Galaxy Note 10, Huawei P20 Pro, One Plus 9 and One Plus 10 PRO.
- Incoming audio MMS attachment is not reported with text portion of the message for the Huawei P20 Pro.
- Social media related data (Facebook, LinkedIn, Instagram, Pinterest, SnapChat) is not reported for the Google Pixel 4, Galaxy S9, Galaxy S10, Galaxy Note 8, Galaxy Note 10 and Huawei P20 Pro.
- Social media related data (Twitter, WhatsApp) is partially reported, only graphic files associated with the account are reported under a file system folder when the case is exported into pdf file, for the Google Pixel 4, Galaxy S10, Galaxy Note 8 and Galaxy Note 10.
- Social media related data (Facebook, Twitter, LinkedIn, Instagram, Pinterest, SnapChat) is not reported for the Google Pixel 6, Google Pixel 6 PRO, One Plus 9 and One Plus 10 Pro.
- Social media related data (WhatsApp) is not reported for the Galaxy S9, One Plus
 9 and Huawei P20 Pro.
- Social media related data (TikTok) is partially reported for the One Plus 9, only graphic files are reported.
- Social media related data (WhatsApp) is partially reported (only graphic files are reported) for the Google Pixel 6, Google Pixel 6 Pro and One Plus 10 Pro.
- Social media related data (TikTok) is not reported for the One Plus 10 Pro.
- Social media related data (Twitter) is partially reported for the Galaxy S9 and Huawei P20 Pro.
- Internet data (browser history, bookmarks, emails) is not reported for the Google Pixel 4, Google Pixel 6, Google Pixel 6 Pro, Galaxy S9, Galaxy S10, Galaxy Note 8, One Plus 9, One Plus 10 Pro, Galaxy Note 10 and Huawei P20 Pro.
- GPS related data (coordinates, locations, geotagged pictures & videos) is not reported for the Google Pixel 4, Google Pixel 6, Google Pixel 6 Pro, Galaxy S9, Galaxy S10, One Plus 9, One Plus 10 Pro, Galaxy Note 10 and Huawei P20 Pro.

NOTE:

Deleted data recovered for the Google Pixel 6 and Google Pixel 6 Pro: standalone graphic file.

See Table 3a, 3b below for more details.

Internal Memory Acquisition Data Pilot Desktop v2.0.112

Mobile Device Platform: Android

Test Cases:	Google Pixel 4	Google Pixel 6	Google Pixel 6 PRO	Galaxy S9	Galaxy S10	Galaxy Note 8
Acquisition:	As	As	As	As	As	As
Acquire All	Expected	Expected	Expected	Expected	Expected	Expected
Acquisition: Disrupted	As	As	As	As	As	As
	Expected	Expected	Expected	Expected	Expected	Expected
Reporting:	As	As	As	As	As	As
Preview-Pane	Expected	Expected	Expected	Expected	Expected	Expected
Reporting:	As	As	As	As	As	As
Generated Reports	Expected	Expected	Expected	Expected	Expected	Expected
Equipment/User Data:	Not As	As	Not As	As	Not As	As
IMEI/MEID/ESN	Expected	Expected	Expected	Expected	Expected	Expected
Equipment/User Data: MSISDN	As	As	As	As	As	As
	Expected	Expected	Expected	Expected	Expected	Expected
PIM Data:	As	Not As	Not As	As	As	As
Contacts	Expected	Expected	Expected	Expected	Expected	Expected
PIM Data:	As	As	As	As	As	As
Calendar	Expected	Expected	Expected	Expected	Expected	Expected
PIM Data:	Not As	Not As	Not As	Not As	Not As	Not As
Memos/Notes	Expected	Expected	Expected	Expected	Expected	Expected
Call Logs:	As	As	As	As	As	As
Incoming	Expected	Expected	Expected	Expected	Expected	Expected
Call Logs:	As	As	As	As	As	As
Outgoing	Expected	Expected	Expected	Expected	Expected	Expected
Call Logs:	As	As	As	As	As	As
Missed	Expected	Expected	Expected	Expected	Expected	Expected
SMS Messages:	As	As	As	As	As	As
Incoming	Expected	Expected	Expected	Expected	Expected	Expected
SMS Messages:	As	As	As	As	As	As
Outgoing	Expected	Expected	Expected	Expected	Expected	Expected
MMS Messages:	As	As	As	As	As	As
Graphic	Expected	Expected	Expected	Expected	Expected	Expected
MMS Messages:	As	As	As	As	As	As
Audio	Expected	Expected	Expected	Expected	Expected	Expected
MMS Messages:	As	As	As	As	As	As
Video	Expected	Expected	Expected	Expected	Expected	Expected
Stand-alone Files:	As	As	As	As	As	As
Graphic	Expected	Expected	Expected	Expected	Expected	Expected
Stand-alone Files:	As	As	As	As	As	As
Audio	Expected	Expected	Expected	Expected	Expected	Expected
Stand-alone Files:	As	As	As	As	As	As
Video	Expected	Expected	Expected	Expected	Expected	Expected
Application Data: Documents (txt, pdf files)	As	As	As	As	As	As
	Expected	Expected	Expected	Expected	Expected	Expected

Test Cases:	Google Pixel 4	Google Pixel 6	Google Pixel 6 PRO	Galaxy S9	Galaxy S10	Galaxy Note 8
Social Media Data:	Not As	Not As	Not As	Not As	Not As	Not As
	Expected	Expected	Expected	Expected	Expected	Expected
Facebook Social Media Data: Twitter	Partial	Not As Expected	Not As Expected	Partial	Partial	Partial
Social Media Data:	Not As	Not As	Not As	Not As	Not As	Not As
LinkedIn	Expected	Expected	Expected	Expected	Expected	Expected
Social Media Data:	Not As	Not As	Not As	Not As	Not As	Not As
Instagram	Expected	Expected	Expected	Expected	Expected	Expected
Social Media Data:	Not As	Not As	Not As	Not As	Not As	Not As
Pinterest	Expected	Expected	Expected	Expected	Expected	Expected
Social Media Data:	Not As	Not As	Not As	Not As	Not As	Not As
SnapChat	Expected	Expected	Expected	Expected	Expected	Expected
Social Media Data: WhatsApp	Partial	Partial	Partial	Not As Expected	Partial	Partial
Internet Data:	Not As	Not As	Not As	Not As	Not As	Not As
Bookmarks	Expected	Expected	Expected	Expected	Expected	Expected
Internet Data:	Not As	Not As	Not As	Not As	Not As	Not As
History	Expected	Expected	Expected	Expected	Expected	Expected
Internet Data:	Not As	Not As	Not As	Not As	Not As	Not As
Email	Expected	Expected	Expected	Expected	Expected	Expected
GPS Data:	Not As	Not As	Not As	Not As	Not As	As
Coordinates/Geo-tagged	Expected	Expected	Expected	Expected	Expected	Expected
Non-Latin Character:	As	As	As	As	As	As
Reported in native format	Expected	Expected	Expected	Expected	Expected	Expected
Hashing:	As	As	As	As	As	As
Case File/ Individual Files	Expected	Expected	Expected	Expected	Expected	Expected
Case File Data Protection:	As	As	As	As	As	As
Modify Case Data	Expected	Expected	Expected	Expected	Expected	Expected
SQLite Data:	As	As	As	As	As	As
Report Active Data	Expected	Expected	Expected	Expected	Expected	Expected
SQLite Data: Run SQLite Commands	NA	NA	NA	NA	NA	NA

Table 3a: Android Devices

Internal Memory Acquisition Data Pilot Desktop v2.0.122

Mobile Device Platform: Android

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Test Cases:	Galaxy Note 10	One Plus 9	One Plus 10 PRO	Huawei P20 Pro
Acquisition: Acquire All	As	As	As	As
	Expected	Expected	Expected	Expected
Acquisition:	As	As	As	As
Disrupted	Expected	Expected	Expected	Expected
Reporting:	As	As	As	As
Preview-Pane Reporting:	Expected	Expected	Expected	Expected
	As	As	As	As
Generated Reports Equipment/User Data:	Expected	Expected	Expected	Expected
	As	As	As	As
IMEI/MEID/ESN	Expected	Expected	Expected	Expected
Equipment/User Data: MSISDN	As	As	As	As
	Expected	Expected	Expected	Expected
PIM Data:	As	As	Not As	As
Contacts	Expected	Expected	Expected	Expected
PIM Data:	As	As	As	As Expected
Calendar PIM Data:	Expected Not As	Expected Not As	Expected Not As	Not As
Memos/Notes Call Logs:	Expected	Expected	Expected	Expected
	As	NA	As	As
Incoming	Expected	N/A	Expected	Expected
Call Logs:	As	NA	As	As
Outgoing	Expected		Expected	Expected
Call Logs:	As	NA	As	As
Missed	Expected		Expected	Expected
SMS Messages:	As	As	As	As
Incoming	Expected	Expected	Expected	Expected
SMS Messages:	As	As	As	As
Outgoing MMS Messages:	Expected	Expected	Expected	Expected
	As	NA	As	As
Graphic MMS Messages:	Expected As	NA NA	Expected As	Expected Partial
Audio	Expected		Expected	
MMS Messages:	As	NA	As	As
Video	Expected		Expected	Expected
Stand-alone Files:	As	As	As	As
Graphic	Expected	Expected	Expected	Expected
Stand-alone Files:	As	As	As	As
Audio	Expected	Expected	Expected	Expected
Stand-alone Files:	As	As	As	As
Video Application Data:	Expected	Expected	Expected	Expected
	As	As	As	As
Documents (txt, pdf files)	Expected	Expected	Expected	Expected

Test Cases:	Galaxy Note 10	One Plus 9	One Plus 10 PRO	Huawei P20 Pro
Social Media Data:	Not As	Not As	Not As	Not As
Facebook Social Media Data: Twitter	Expected Partial	Expected Not As Expected	Expected Not As Expected	Expected Partial
Social Media Data:	Not As	Not As	Not As	Not As
LinkedIn	Expected	Expected	Expected	Expected
Social Media Data:	Not As	Not As	Not As	Not As
Instagram	Expected	Expected	Expected	Expected
Social Media Data:	Not As	Not As	Not As	Not As
Pinterest	Expected	Expected	Expected	Expected
Social Media Data:	Not As	Not As	Not As	Not As
SnapChat	Expected	Expected	Expected	Expected
Social Media Data: WhatsApp	Partial	Not As Expected	Partial	Not As Expected
Social Media Data: TikTok	Not As Expected	Partial	Not As Expected	NA
Internet Data:	Not As	Not As	Not As	Not As
Bookmarks	Expected	Expected	Expected	Expected
Internet Data:	Not As	Not As	Not As	Not As
History	Expected	Expected	Expected	Expected
Internet Data:	Not As	Not As	Not As	Not As
Email	Expected	Expected	Expected	Expected
GPS Data:	Not As	Not As	Not As	Not As
Coordinates/Geo-tagged	Expected	Expected	Expected	Expected
Non-Latin Character:	As	As	As	As
Reported in native format	Expected	Expected	Expected	Expected
Hashing:	As	As	As	As
Case File/ Individual Files	Expected	Expected	Expected	Expected
Case File Data Protection:	As	As	As	As
Modify Case Data	Expected	Expected	Expected	Expected
SQLite Data: Report Active Data	NA	NA	NA	NA
SQLite Data: Run SQLite Commands	NA	NA	NA	NA

Table 3b: Android Devices

4.2 iOS Mobile Devices

The internal memory contents for iOS devices were acquired and analyzed with Data Pilot Desktop v2.0.112.

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

- Memo or Note entries are partially reported, long memo entries are truncated, for all iOS devices.
- Incoming audio MMS messages has to be opened with a third-party tool for the iPhone 13 Mini.
- Social media related data (Facebook, Twitter, LinkedIn, Instagram, Pinterest and SnapChat) is not reported for the iPhone 8, iPhone XR, iPhone SE, iPhone 11, Phone 13 Pro, iPhone 13 Pro Max and iPhone 13 Mini.
- Social media related data (Facebook) is partially reported, only pictures are reported for the iPhone X.
- Social media related data (Twitter, LinkedIn, Instagram, Pinterest, SnapChat) is not reported for the iPhone X.
- Internet data (browser history) is not reported for the iPhone 8 and iPhone XR.
- Only geo-tagged graphic files are reported but latitude and longitude coordinates from places visited using the device's map application are not reported for the iPhone 8, iPhone XR, iPhone SE, iPhone 13 Pro, iPhone 13 Pro Max and iPhone 13 Mini.

NOTE:

Deleted data recovered for the iPhone 11: memos but its status is incorrectly reported as active.

See Table 4a, 4b below for more details.

Internal Memory Acquisition Data Pilot Desktop v2.0.112

Mobile Device Platform: iOS

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Test Cases:	iPhone 8	iPhone X	iPhone XR	iPhone SE	iPhone 11	iPhone 13 Mini
Acquisition: Acquire All	As	As	As	As	As	As
	Expected	Expected	Expected	Expected	Expected	Expected
Acquisition:	As	As	As	As	As	As
Disrupted	Expected	Expected	Expected	Expected	Expected	Expected
Reporting:	As	As	As	As	As	As
Preview-Pane	Expected	Expected	Expected	Expected	Expected	Expected
Reporting:	As	As	As	As	As	As
Generated Reports	Expected	Expected	Expected	Expected	Expected	Expected
Equipment/User Data: IMEI/MEID/ESN	As	As	As	As	As	As
	Expected	Expected	Expected	Expected	Expected	Expected
Equipment/User Data:	As	As	As	As	As	As
MSISDN	Expected	Expected	Expected	Expected	Expected	Expected
PIM Data:	As	As	As	As	As	As
Contacts	Expected	Expected	Expected	Expected	Expected	Expected
PIM Data:	As	As	As	As	As	As
Calendar	Expected	Expected	Expected	Expected	Expected	Expected
PIM Data: Memos/Notes	Partial	Partial	Partial	Partial	Partial	Partial
Call Logs:	As	As	NA	As	As	As
Incoming	Expected	Expected		Expected	Expected	Expected
Call Logs:	As	As	NA	As	As	As
Outgoing	Expected	Expected		Expected	Expected	Expected
Call Logs:	As	As	NA	As	As	As
Missed	Expected	Expected		Expected	Expected	Expected
SMS Messages:	As	As	As	As	As	As
Incoming	Expected	Expected	Expected	Expected	Expected	Expected
SMS Messages:	As	As	As	As	As	As
Outgoing	Expected	Expected	Expected	Expected	Expected	Expected
MMS Messages:	As	As	As	As	As	As
Graphic	Expected	Expected	Expected	Expected	Expected	Expected
MMS Messages: Audio	As Expected	As Expected	As Expected	As Expected	As Expected	Partial
MMS Messages:	As	As	As	As	As	As
Video	Expected	Expected	Expected	Expected	Expected	Expected
Stand-alone Files:	As	As	As	As	As	As
Graphic	Expected	Expected	Expected	Expected	Expected	Expected
Stand-alone Files:	As	As	As	As	As	As
Audio	Expected	Expected	Expected	Expected	Expected	Expected
Stand-alone Files:	As	As	As	As	As	As
Video	Expected	Expected	Expected	Expected	Expected	Expected
Application Data:	As	As	As	As	As	As
Documents (txt, pdf files)	Expected	Expected	Expected	Expected	Expected	Expected

Test Cases:	iPhone 8	iPhone X	iPhone XR	iPhone SE	iPhone 11	iPhone 13 Mini
Social Media Data:	Not As	Partial	Not As	Not As	Not As	Not As
Facebook	Expected		Expected	Expected	Expected	Expected
Social Media Data:	Not As	Not As	Not As	Not As	Not As	Not As
Twitter	Expected	Expected	Expected	Expected	Expected	Expected
Social Media Data:	Not As	Not As	Not As	Not As	Not As	Not As
LinkedIn	Expected	Expected	Expected	Expected	Expected	Expected
Social Media Data:	Not As	Not As	Not As	Not As	Not As	Not As
Instagram	Expected	Expected	Expected	Expected	Expected	Expected
Social Media Data:	Not As	Not As	Not As	Not As	Not As	Not As
Pinterest	Expected	Expected	Expected	Expected	Expected	Expected
Social Media Data:	Not As	Not As	Not As	Not As	Not As	Not As
SnapChat	Expected	Expected	Expected	Expected	Expected	Expected
Social Media Data:	As	As	As	As	As	As
WhatsApp	Expected	Expected	Expected	Expected	Expected	Expected
Internet Data:	As	As	Not As	As	As	As
Bookmarks	Expected	Expected	Expected	Expected	Expected	Expected
Internet Data: History	Not As Expected	As Expected	Not As Expected	NA	NA	As Expected
Internet Data: Email	NA	NA	NA	NA	NA	NA
GPS Data: Coordinates/Geo-tagged	Partial	As Expected	Partial	Partial	Partial	Partial
Non-Latin Character:	As	As	As	As	As	As
Reported in native format	Expected	Expected	Expected	Expected	Expected	Expected
Hashing:	As	As	As	As	As	As
Case File/ Individual Files	Expected	Expected	Expected	Expected	Expected	Expected
Case File Data Protection:	As	As	As	As	As	As
Modify Case Data	Expected	Expected	Expected	Expected	Expected	Expected
SQLite Data:	As	As	As	As	As	As
Report Active Data	Expected	Expected	Expected	Expected	Expected	Expected
SQLite Data: Run SQLite Commands	NA	NA	NA	NA	NA	NA

Table 4a: iOS Devices

	3	8 3
	6 1	e 1 fax
	one Pro	onc M
	iPhone 1. Pro	iPhone 13 Pro Max
Test Cases:	ij	.11 _
Acquisition:	As	As
Acquire All	Expected	Expected
Acquisition:	As	As
Disrupted	Expected	Expected
Reporting:	As	As
Preview-Pane	Expected	Expected
Reporting:	As	As
Generated Reports	Expected	Expected
Equipment/User Data:	As	As
IMEI/MEID/ESN	Expected	Expected
Equipment/User Data:	As	As
MSISDN	Expected	Expected
PIM Data:	As	As
Contacts	Expected	Expected
PIM Data:	As	As
Calendar	Expected	Expected
PIM Data:	Partial	Partial
Memos/Notes	1 017 01011	1 017 01011
Call Logs:	As	As
Incoming	Expected	Expected
Call Logs:	As	As
Outgoing	Expected	Expected
Call Logs:	As	As
Missed	Expected	Expected
	As	As
SMS Messages: Incoming	Expected	Expected
SMS Messages:	As	As
Outgoing	Expected	Expected
MMS Messages:	As	As
Graphic	Expected	Expected
MMS Messages:	As	As
Audio	Expected	Expected
MMS Messages:	As	As
Video	Expected	Expected
Stand-alone Files:	As	As
Graphic	Expected	Expected
Stand-alone Files:	As	As
Audio	Expected	Expected
Stand-alone Files:	As	As
Video	Expected	Expected
	As	As
Application Data:	Expected	AS Expected
Documents (txt, pdf files)		•
Social Media Data:	Not As	Not As
Facebook	Expected	Expected
Social Media Data:	Not As	Not As
Twitter	Expected	Expected

Test Cases:	iPhone 13 Pro	iPhone 13 Pro Max
Social Media Data:	Not As	Not As
LinkedIn	Expected	Expected
Social Media Data:	Not As	Not As
Instagram	Expected	Expected
Social Media Data:	Not As	Not As
Pinterest	Expected	Expected
Social Media Data:	Not As	Not As
SnapChat	Expected	Expected
Social Media Data:	As	As
WhatsApp	Expected	Expected
Internet Data:	As	As
Bookmarks	Expected	Expected
Internet Data:	As	As
History	Expected	Expected
Internet Data: Email	NA	NA
GPS Data: Coordinates/Geo-tagged	Partial	Partial
Non-Latin Character:	As	As
Reported in native format	Expected	Expected
Hashing:	As	As
Case File/ Individual Files	Expected	Expected
Case File Data Protection:	As	As
Modify Case Data	Expected	Expected
SQLite Data:	As	As
Report Active Data	Expected	Expected
SQLite Data: Run SQLite Commands	NA	NA

Table 4b: iOS Devices