

**April 2022**

**Test Results for Mobile Device Acquisition Tool:  
Cellebrite Inspector v10.5**

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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 (NIJ), and the National Institute of Standards and Technology Special Program Office (SPO) and Information Technology Laboratory (ITL). CFTT is supported by other organizations, including the Federal Bureau of Investigation, the U.S. Department of Defense Cyber Crime Center, U.S. Internal Revenue Service Criminal Investigation Division Electronic Crimes Program, and the U.S. Department of Homeland Security's Bureau of Immigration and Customs Enforcement, U.S. Customs and Border Protection and U.S. Secret Service. The objective of the CFTT program is to provide measurable assurance to practitioners, researchers, and other applicable users that the tools used in computer forensics investigations provide accurate results. Accomplishing this requires the development of specifications and test methods for computer forensics tools and subsequent testing of specific tools against those specifications.

Test results provide the information necessary for developers to improve tools, users to make informed choices, and the legal community and others to understand the tools' capabilities. 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 Cellebrite Inspector v10.5 across supported mobile devices.

Test results from other tools can be found on the DHS Science & Technology 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.



# Test Results for Mobile Device Acquisition Tool

**Tool Tested:** Inspector

**Software Version:** v10.5

**Supplier:** Cellebrite, Inc.

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**Fax:** (415) 361-4077

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## 1 Results Summary

Cellebrite's Inspector v10.5 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.

### ***Personal Information Management (PIM) data:***

- Calendar data is not reported. (Devices: *Galaxy Note 10, Galaxy S10, Galaxy Note 8, Galaxy S9, Huawei P20 Pro, LG G6, LG V30, Motorola Droid Turbo 2, Google Pixel 2, HTC U11*)

### ***MMS Messages:***

MMS text, attachments and messages with multiple contacts are not reported.  
(Device: *HTC U11*)

### ***Stand-alone files:***

- Audio files are not reported. (Devices: *Galaxy Note 10, Galaxy S10, Galaxy Note 8, Galaxy S9, Huawei P20 Pro, LG G6, LG V30, Motorola Droid Turbo 2, Google Pixel 2, HTC U11, iPhone 7, iPhone 8, iPhone X, iPhone XR, iPhone SE, iPhone 11*)
- Document files are not reported. (Devices: *Galaxy Note 10, Galaxy S10, Galaxy Note 8, Galaxy S9, Huawei P20 Pro, LG G6, LG V30, Motorola Droid Turbo 2, Google Pixel 2, HTC U11, iPhone 7, iPhone 8, iPhone X, iPhone XR, iPhone SE, iPhone 11*)

### ***Social media Data:***

Social media related data (i.e., WhatsApp) is not reported. (Devices: *Galaxy Note 10, Galaxy S10, Galaxy Note 8, Galaxy S9, Huawei P20 Pro, LG V30, Google Pixel 2*)

***Internet Data:***

Internet data (browser history, bookmarks) are not reported. (Devices: *Galaxy Note 10, Galaxy S10, Galaxy Note 8, Galaxy S9, Huawei P20 Pro, LG G6, LG V30, Google Pixel 2, HTC U11*)

***GPS Location Data:***

GPS related data (coordinates, locations, geotagged pictures/videos) are not reported. (Devices: *Galaxy Note 10, Galaxy S10, Galaxy Note 8, Galaxy S9, Huawei P20 Pro, LG G6, LG V30, Motorola Droid Turbo 2, Google Pixel 2*)

**NOTE:**

- Audio, Document files and Calendar entries can be manually found for the Galaxy Note 10, Galaxy S10, Galaxy Note 8, Galaxy S9, Huawei P20 Pro, LG G6, LG V30, Motorola Droid Turbo 2, Google Pixel 2 and HTC U11.
- Audio and Document files can be manually found for the iPhone 8, iPhone X, iPhone XR, iPhone SE and iPhone 11.

For more test result details see section 4.

## 2 Mobile Devices

The following table lists the mobile devices used for testing Inspector v10.5.

Make	Model	OS	Firmware	Network
Apple iPhone	7	iOS 10.2 (14C92)	1.33.00	CDMA
Apple iPhone	8	iOS 11.3.1 (15E302)	1.89.00	CDMA
Apple iPhone	X	iOS 11.3.1 (15E302)	1.89.00	CDMA
Apple iPhone	XR	iOS 15.1 NQCK2LL/A	7.02.00	CDMA
Apple iPhone	SE	iOS 15.1 MX9N2LL/A	1.06.00	CDMA
Apple iPhone 11	11	iOS 15.1 (15E302)	3.0.00	CDMA
Samsung	Galaxy Note 10	Android 9	SM-N97OU1	CDMA
Samsung Galaxy	S10	Android 9	SM-G973U1	CDMA
Samsung	Galaxy Note 8	Android 7.1.1	NMF26XN950 U1UEU1AQ1f	CDMA
Samsung Galaxy	S9	Android 8.0.0	G960U1UEU1 ARB7	CDMA
Huawei	P20 Pro	Android 8.1.0	CLTL2981010 6 (C636)	CDMA
LG	G6	Android 7.0	US99715a	CDMA
LG	V30	Android 8.0.0	OPR11706230 26	CDMA
Motorola Droid	Turbo2	Android 5.1.1	LCK23.130-23	CDMA
Google	Pixel 2	Android 8.1.0	OPM171019.0 29	CDMA
HTC U11	U11	Android 7.1.1	12861730	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

Cellebrite's Inspector v10.5 was installed on Windows 10 Pro version 10.0.19042.1586.

### 3.2 Internal Memory Data Objects

Cellebrite's Inspector v10.5 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	<i>Regular Length</i> <i>Maximum Length</i> <i>Special Character</i> <i>Blank Name</i> <i>Regular Length, email</i> <i>Regular Length, graphic</i> <i>Regular Length, Address</i> <i>Deleted Entry</i> <i>Non-Latin Entry</i> <i>Contact Groups</i>
PIM Data: Datebook/Calendar; Memos	<i>Regular Length</i> <i>Maximum Length</i> <i>Deleted Entry</i> <i>Special Character</i> <i>Blank Entry</i>
Call Logs	<i>Incoming</i> <i>Outgoing</i> <i>Missed</i> <i>Incoming – Deleted</i> <i>Outgoing – Deleted</i> <i>Missed - Deleted</i>
Text Messages	<i>Incoming SMS – Read</i> <i>Incoming SMS – Unread</i> <i>Outgoing SMS</i> <i>Incoming EMS – Read</i> <i>Incoming EMS – Unread</i> <i>Outgoing EMS</i> <i>Incoming SMS – Deleted</i> <i>Outgoing SMS – Deleted</i> <i>Incoming EMS – Deleted</i> <i>Outgoing EMS – Deleted</i> <i>Non-Latin SMS/EMS</i>
MMS Messages	<i>Incoming Audio</i> <i>Incoming Graphic</i> <i>Incoming Video</i> <i>Outgoing Audio</i> <i>Outgoing Graphic</i> <i>Outgoing Video</i>
Application Data	<i>Device Specific App Data</i>



<b>Data Objects</b>	<b>Data Elements</b>
Stand-alone data files	<i>Audio</i> <i>Graphic</i> <i>Video</i> <i>Audio – Deleted</i> <i>Graphic - Deleted</i> <i>Video - Deleted</i>
Internet Data	<i>Visited Sites</i> <i>Bookmarks</i> <i>E-mail</i>
Location Data	<i>GPS Coordinates</i> <i>Geo-tagged Data</i>
Social Media Data	<i>Facebook</i> <i>Twitter</i> <i>LinkedIn</i> <i>Instagram</i> <i>Pinterest</i> <i>SnapChat</i> <i>WhatsApp</i>

**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 (e.g., Android, iOS) and the make and model of mobile devices used for testing Cellebrite’s Inspector v10.5.

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 Inspector v10.5. All test cases pertaining to the acquisition of supported Android devices were successful with the exception of the following across all Android devices.

- Calendar events / entries are not reported for the Galaxy Note 10, Galaxy S10, Galaxy Note 8, Galaxy S9, Huawei P20 Pro, LG G6, LG V30, Motorola Droid Turbo 2, Google Pixel 2 and HTC U11.
- MMS messages and messages addressed to multiple contacts are not reported for the HTC U11.
- Audio files are not reported for the Galaxy Note 10, Galaxy S10, Galaxy Note 8, Galaxy S9, Huawei P20 Pro, LG G6, LG V30, Motorola Droid Turbo 2, Google Pixel 2 and HTC U11.
- Document (pdf) files are not reported for the Galaxy Note 10, Galaxy S10, Galaxy Note 8, Galaxy S9, Huawei P20 Pro, LG G6, LG V30, Motorola Droid Turbo 2, Google Pixel 2 and HTC U11.
- Social media related data (i.e., WhatsApp) is not reported for the Galaxy Note 10, Galaxy S10, Galaxy Note 8, Galaxy S9, Huawei P20 Pro, LG V30, and Google Pixel 2.
- Internet data (browser history, bookmarks) are not reported for the Galaxy Note 10, Galaxy S10, Galaxy Note 8, Galaxy S9, Huawei P20 Pro, LG G6, LG V30, Google Pixel 2 and HTC U11.
- GPS related data (coordinates, locations, geotagged pictures/videos) are not reported for the Galaxy Note 10, Galaxy S10, Galaxy Note 8, Galaxy S9, Huawei P20 Pro, LG G6, LG V30, Motorola Droid Turbo 2 and Google Pixel 2.

### **NOTE:**

- Audio, Document files and Calendar entries can be manually found for the Galaxy Note 10, Galaxy S10, Galaxy Note 8, Galaxy S9, Huawei P20 Pro, LG G6, LG V30, Motorola Droid Turbo 2, Google Pixel 2 and HTC U11.

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

**Internal Memory Acquisition**  
**Cellebrite Inspector v10.5**  
*Mobile Device Platform: Android*

<b>Test Cases:</b>	<b>Galaxy Note 10</b>	<b>Galaxy S10</b>	<b>Galaxy Note 8</b>	<b>Galaxy S9</b>	<b>Huawei P20 Pro</b>	<b>LG G6</b>	<b>LG V30</b>
Acquisition: Acquire All	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Acquisition: Disrupted	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Reporting: Preview-Pane	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Reporting: Generated Reports	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Equipment/User Data: IMEI/MEID/ESN	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Equipment/User Data: MSISDN	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
PIM Data: Contacts	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
PIM Data: Calendar	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>
PIM Data: Memos/Notes	NA	NA	NA	NA	NA	NA	NA
Call Logs: Incoming	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Call Logs: Outgoing	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Call Logs: Missed	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
SMS Messages: Incoming	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
SMS Messages: Outgoing	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
MMS Messages: Graphic	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
MMS Messages: Audio	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
MMS Messages: Video	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Stand-alone Files: Graphic	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Stand-alone Files: Audio	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>
Stand-alone Files: Video	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Application Data: Documents (txt, pdf files)	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>

<b>Test Cases:</b>	Galaxy Note 10	Galaxy S10	Galaxy Note 8	Galaxy S9	Huawei P20 Pro	LG G6	LG V30
Social Media Data: Facebook	NA	NA	NA	NA	NA	NA	NA
Social Media Data: Twitter	NA	NA	NA	NA	NA	NA	NA
Social Media Data: LinkedIn	NA	NA	NA	NA	NA	NA	NA
Social Media Data: Instagram	NA	NA	NA	NA	NA	NA	NA
Social Media Data: Pinterest	NA	NA	NA	NA	NA	NA	NA
Social Media Data: SnapChat	NA	NA	NA	NA	NA	NA	NA
Social Media Data: WhatsApp	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>	NA	<i>Not As Expected</i>
Internet Data: Bookmarks	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>
Internet Data: History	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>
Internet Data: Email	NA	NA	NA	NA	NA	NA	NA
GPS Data: Coordinates/Geo-tagged	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>
Non-Latin Character: Reported in native format	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
Hashing: Case File/ Individual Files	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
Case File Data Protection: Modify Case Data	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
SQLite Data: Report Active Data	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
SQLite Data: Run SQLite Commands	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>

**Table 3a: Android Devices**

**Internal Memory Acquisition**  
**Cellebrite Inspector v10.5**  
*Mobile Device Platform: Android*

<b>Test Cases:</b>	Motorola Droid Turbo 2	Google Pixel 2	HTC U11
Acquisition: Acquire All	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
Acquisition: Disrupted	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
Reporting: Preview-Pane	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
Reporting: Generated Reports	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
Equipment/User Data: IMEI/MEID/ESN	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
Equipment/User Data: MSISDN	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
PIM Data: Contacts	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
PIM Data: Calendar	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>
PIM Data: Memos/Notes	<i>NA</i>	<i>NA</i>	<i>NA</i>
Call Logs: Incoming	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
Call Logs: Outgoing	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
Call Logs: Missed	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
SMS Messages: Incoming	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
SMS Messages: Outgoing	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
MMS Messages: Graphic	<i>As Expected</i>	<i>As Expected</i>	<i>Not As Expected</i>
MMS Messages: Audio	<i>As Expected</i>	<i>As Expected</i>	<i>Not As Expected</i>
MMS Messages: Video	<i>As Expected</i>	<i>As Expected</i>	<i>Not As Expected</i>
Stand-alone Files: Graphic	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
Stand-alone Files: Audio	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>
Stand-alone Files: Video	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
Application Data: Documents (txt, pdf files)	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>

<b>Test Cases:</b>	<b>Motorola Droid Turbo 2</b>	<b>Google Pixel 2</b>	<b>HTC U11</b>
Social Media Data: Facebook	NA	NA	NA
Social Media Data: Twitter	NA	NA	NA
Social Media Data: LinkedIn	NA	NA	NA
Social Media Data: Instagram	NA	NA	NA
Social Media Data: Pinterest	NA	NA	NA
Social Media Data: SnapChat	NA	NA	NA
Social Media Data: WhatsApp	NA	<i>Not As Expected</i>	NA
Internet Data: Bookmarks	<i>As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>
Internet Data: History	<i>As Expected</i>	<i>Not As Expected</i>	<i>Not As Expected</i>
Internet Data: Email	NA	NA	NA
GPS Data: Coordinates/Geo-tagged	<i>Not As Expected</i>	<i>Not As Expected</i>	<i>As Expected</i>
Non-Latin Character: Reported in native format	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
Hashing: Case File/ Individual Files	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
Case File Data Protection: Modify Case Data	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
SQLite Data: Report Active Data	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>
SQLite Data: Run SQLite Commands	<i>As Expected</i>	<i>As Expected</i>	<i>As Expected</i>

**Table 3b: Android Devices**

## **4.2 iOS Mobile Devices**

The internal memory contents for iOS devices were acquired and analyzed with Inspector v10.5.

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

- Audio files are not reported for the iPhone 7, iPhone 8, iPhone X, iPhone XR, iPhone SE and iPhone 11.
- Document (pdf) files are not reported for the iPhone 7, iPhone 8, iPhone X, iPhone XR, iPhone SE and iPhone 11.

**NOTE:**

- Audio and Document files can be manually found for the iPhone 8, iPhone X, iPhone XR, iPhone SE and iPhone 11.

See Table 4 below for more details.



**Internal Memory Acquisition**  
**Cellebrite Inspector v10.5**  
*Mobile Device Platform: iOS*

<b>Test Cases:</b>	<b>iPhone 7</b>	<b>iPhone 8</b>	<b>iPhone X</b>	<b>iPhone XR</b>	<b>iPhone SE</b>	<b>iPhone 11</b>
Acquisition: Acquire All	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Acquisition: Disrupted	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Reporting: Preview-Pane	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Reporting: Generated Reports	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Equipment/User Data: IMEI/MEID/ESN	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Equipment/User Data: MSISDN	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
PIM Data: Contacts	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
PIM Data: Calendar	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
PIM Data: Memos/Notes	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Call Logs: Incoming	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Call Logs: Outgoing	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Call Logs: Missed	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
SMS Messages: Incoming	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
SMS Messages: Outgoing	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
MMS Messages: Graphic	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
MMS Messages: Audio	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
MMS Messages: Video	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Stand-alone Files: Graphic	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Stand-alone Files: Audio	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>
Stand-alone Files: Video	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>	As <i>Expected</i>
Application Data: Documents (txt, pdf files)	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>	Not As <i>Expected</i>

Test Cases:	iPhone 7	iPhone 8	iPhone X	iPhone XR	iPhone SE	iPhone 11
Social Media Data: Facebook	NA	NA	NA	NA	NA	NA
Social Media Data: Twitter	NA	NA	NA	NA	NA	NA
Social Media Data: LinkedIn	NA	NA	NA	NA	NA	NA
Social Media Data: Instagram	NA	NA	NA	NA	NA	NA
Social Media Data: Pinterest	NA	NA	NA	NA	NA	NA
Social Media Data: SnapChat	NA	NA	NA	NA	NA	NA
Social Media Data: WhatsApp	NA	As Expected	As Expected	As Expected	As Expected	As Expected
Internet Data: 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
Internet Data: Email	NA	NA	NA	NA	NA	NA
GPS Data: Coordinates/Geo-tagged	As Expected	As Expected	As Expected	As Expected	As Expected	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
SQLite Data: Report Active Data	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected
SQLite Data: Run SQLite Commands	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected

**Table 4: iOS Devices**