

Apple Inc.

Apple iOS 12 Contacts on iPhone and iPad Common Criteria Configuration Guide

November 2018

Version 1.0

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Revision History

Version	Date	Description
1.0	November 2018	Initial Version

1 Introduction

1.1 Target of Evaluation

The TOE is the Apple iOS 12 Contacts on iPhone and iPad. The product provides access and management of user contact information within the devices. Note: The TOE is the application software only. The Apple iOS operating system has been separately validated (VID 10937).

Table 1 – Evaluated Platforms				
Device Name	Model	Processor	WiFi	Bluetooth
iPhone XS	A1920 A2097 A2098 A2099 A2100	A12 Bionic	802.11a/b/g/n/ac	5.0
iPhone XS Max	A1921 A2101 A2102 A2103 A2104	A12 Bionic	802.11a/b/g/n/ac	5.0
iPhone XR	A1984 A2105 A2106 A2107 A2108	A12 Bionic	802.11a/b/g/n/ac	5.0
iPhone X	A1901 A1902 A1865	A11	802.11a/b/g/n/ac 802.11a/b/g/n/ac 802.11a/b/g/n/ac	5.0
iPhone 8 Plus/ iPhone 8	A1864, A1897, A1898, A1899/ A1863, A1905, A1906, A1907	A11	802.11a/b/g/n/ac 802.11a/b/g/n/ac	5.0
iPhone 7 Plus/ iPhone 7	A1661, A1784, A1785, A1786/ A1660, A1778, A1779, A1780	A10	802.11a/b/g/n/ac 802.11a/b/g/n/ac	4.2 4.2
iPhone 6S Plus/ iPhone 6S	A1634, A1687, A1690, A1699/ A1633, A1688, A1691, A1700	A9	802.11a/b/g/n/ac 802.11a/b/g/n/ac	4.2 4.2
iPhone SE	A1662 A1723 A1724	A9	802.11a/b/g/n/ac 802.11a/b/g/n/ac 802.11a/b/g/n/ac	4.2
iPhone 6 Plus/ iPhone 6	A1522, A1524, A1593/ A1549, A1586, A1589	A8	802.11a/b/g/n/ac 802.11a/b/g/n/ac 802.11a/b/g/n/ac	4.0 4.0 4.0
iPhone 5s	A1453 A1457 A1518 A1528 A1530 A1533	A7	802.11a/b/g/n 802.11a/b/g/n 802.11a/b/g/n 802.11a/b/g/n 802.11a/b/g/n 802.11a/b/g/n	4.0 4.0 4.0 4.0 4.0 4.0
iPad mini 3	A1599 A1600 A1601	A7	802.11a/b/g/n 802.11a/b/g/n 802.11a/b/g/n	4.0 4.0 4.0
iPad mini 4	A1538 A1550	A8	802.11a/b/g/n 802.11a/b/g/n	4.2 4.2
iPad Air 2	A1566 A1567	A8X	802.11a/b/g/n/ac 802.11a/b/g/n/ac	4.2 4.2
iPad (5th gen)	A1822	A9X	802.11a/b/g/n/ac	4.2

	A1823		802.11a/b/g/n/ac	4.2
iPad Pro 12.9" (1st Gen)	A1584	A9X	802.11a/b/g/n/ac	4.2
	A1652		802.11a/b/g/n/ac	4.2
iPad Pro 9.7"	A1673	A9X	802.11a/b/g/n/ac	4.2
	A1674		802.11a/b/g/n/ac	4.2
iPad Pro 12.9" (2nd Gen)	A1670	A10X	802.11a/b/g/n/ac	4.2
	A1671		802.11a/b/g/n/ac	4.2
iPad Pro 10.5"	A1701	A10X	802.11a/b/g/n/ac	4.2
	A1709		802.11a/b/g/n/ac	4.2
iPad 9.7"	A1893	A10	802.11a/b/g/n/ac	4.2
	A1954			

Table 1 TOE Platforms

1.2 Document Purpose and Scope

This document describes the installation and Common Criteria evaluation related usage of the Apple iOS 12 Contacts on iPhone and iPad.

This guide will show you how to install and operate the software in a Common Criteria compliant manner. You will learn:

- How to verify the app version
- The secure communication mechanisms employed by the TOE
- Platform resources used by the TOE
- Evaluated functionality

2 Installation/Update

The Contacts App is loaded by default on the Common Criteria evaluated version of Apple iOS (VID 10937). However, if the app is deleted from the platform, it may be re-installed via the Apple App Store. All applications found on the Apple App Store are digitally signed.

2.1 Verifying Product Version

The Apple iOS 12 Contacts is a core Apple application. These applications are not updated separately from iOS and are versioned identically to the operating system. The following steps are followed in order to verify the application (and OS version).

- Tap the “Settings” application in iOS
- Tap the “General” option
- Tap the “About” option

The following is an example of this verification,

Network	Not Available
Songs	0
Videos	0
Photos	70
Capacity	64 GB
Available	53.86 GB
Version	12.0 (16A366)

If a new version of the OS/TOE are available, it will be indicated on this screen.

2.2 Other Assumptions

In order to use the TOE in the evaluated configuration, the TOE Platform (i.e., the iPhone or iPad) must also be configured to meet the requirements of the Protection Profile for Mobile Device Fundamentals Version 3.1 as set forth in the Security Target and guidance documentation for the Apple iOS 12 software (<https://niap-ccevs.org/Product/Compliant.cfm?PID=10937>), operating on one of the hardware platforms listed in Table 1.

3 Secure Communications

3.1 TLS Configuration

The Apple iOS 12 Contacts on iPhone and iPad application supports secure communications with Apple servers via HTTPS/TLS. In support of these communications, the following Ciphersuites are supported,

- TLS_RSA_WITH_AES_128_CBC_SHA256,
- TLS_RSA_WITH_AES_256_CBC_SHA256,
- TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384,
- TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA256,
- TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384,
- TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256,
- TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384.

Additionally, the following Elliptic Curve Extensions are supported,

- secp256r1,
- secp384r1.

All configuration of these connections is handled exclusively by the underlying platform (Apple iOS). No additional configuration is required to ensure proper usage.

3.2 Digital Certificates

The Apple iOS 12 Contacts on iPhone and iPad application leverages "Trusted" digital certificates that pre-installed in the iOS Trust Store. No configuration is required to facilitate the usage of these digital certificates. Additional information regarding the Apple iOS 12 Trust Store may be found at: <https://support.apple.com/en-us/HT209144>

The Apple iOS 12 Contacts on iPhone and iPad application additionally leverages pre-configured Reference Identifiers for connecting with the Apple Servers. Again, no configuration is required.

4 Resource Usage

The Apple iOS 12 Contacts on iPhone and iPad application uses the following resources,

- Network Connectivity: This is required for the TOE to facilitate communications with remote Apple Servers.
- Camera: This is required for the TOE to associate a picture with contacts.
- Location Services: This required so that users can share their location with contacts.

Additionally, the Apple iOS 12 Contacts on iPhone and iPad application is the Address Book resource for Apple iOS. Access to the Address Book is required because providing users access to the Address Book is the core purpose of the application.

5 Evaluated Functionality

In addition to the base functionality found in the Protection Profile for Application Software, the following functionality was also evaluated for the Apple iOS 12 Contacts on iPhone and iPad application.

- TLS Client Connections with Apple Servers

End of Document