Apple iOS 14 and iPadOS 14: Contacts Common Criteria Configuration Guide

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1 Introduction

This guide provides instructions to configure and operate Apple iOS 14 and iPadOS 14: Contacts in the Common Criteria evaluated configuration.

1.1 Target of Evaluation

The evaluated application is the Contacts application that is bundled with Apple iOS 14 and iPadOS 14. Contacts provides access and management of user contact information within the devices. Contacts was evaluated on the following platforms:

Table 1 – Evaluated Platforms

Device Name	Model	OS	Processor
iPhone 12 Pro Max	A2342 A2410 A2411 A2412	iOS	Apple A14 Bionic
iPhone 12 Pro	A2341 A2406 A2407 A2408	iOS	Apple A14 Bionic
iPhone 12	A2172 A2402 A2403 A2404	iOS	Apple A14 Bionic
iPhone 12 mini	A2176 A2398 A2399 A2400	iOS	Apple A14 Bionic
iPhone 11 Pro Max	A2161 A2218 A2219 A2220	iOS	Apple A13 Bionic
iPhone 11 Pro	A2160 A2215 A2217	iOS	Apple A13 Bionic
iPhone 11	A2111 A2221 A2223	iOS	Apple A13 Bionic
iPhone SE (2nd generation)	A2275 A2296 A2298	iOS	Apple A13 Bionic
iPhone Xs Max	A1921 A2101 A2102 A2104	iOS	Apple A12 Bionic
iPhone Xs	A1920 A2097 A2098 A2099 A2100	iOS	Apple A12 Bionic
iPhone XR	A1984 A2105	iOS	Apple A12 Bionic

Device Name	Model	OS	Processor
	A2106 A2107 A2108		
iPhone X	A1865 A1901 A1902	iOS	Apple A11 Bionic
iPhone 8 Plus	A1864 A1897 A1898 A1899	iOS	Apple A11 Bionic
iPhone 8	A1863 A1905 A1906 A1907	iOS	Apple A11 Bionic
iPhone 7 Plus	A1661 A1784 A1785 A1786	iOS	Apple A10 Fusion
iPhone 7	A1660 A1778 A1779 A1780	iOS	Apple A10 Fusion
iPhone 6s Plus	A1634 A1687 A1690 A1699	iOS	Apple A9
iPhone 6s	A1633 A1688 A1691 A1700	iOS	Apple A9
iPhone SE	A1662 A1723 A1724	iOS	Apple A9
iPad Air (4th generation)	A2316 A2324 A2072 A2325	iPadOS	Apple A14 Bionic
iPad Pro 12.9-inch (4th generation)	A2229 A2232 A2069 A2233	iPadOS	Apple A12Z Bionic
iPad Pro 11-inch (2nd generation)	A2228 A2068 A2230 A2331	iPadOS	Apple A12Z Bionic
iPad Pro 12.9-inch (3rd generation)	A1876 A1895 A1983 A2014	iPadOS	Apple A12X Bionic
iPad Pro 11-inch (1st generation)	A1980 A1934	iPadOS	Apple A12X Bionic

Device Name	Model	OS	Processor
	A1979 A2013		
iPad (8th generation)	A2270 A2428 A2429 A2430	iPadOS	Apple A12 Bionic
iPad Air (3rd generation)	A2123 A2152 A2153 A2154	iPadOS	Apple A12 Bionic
iPad mini (5th generation)	A2124 A2125 A2126 A2133	iPadOS	Apple A12 Bionic
iPad Pro 12.9-inch (2nd generation)	A1670 A1671 A1821	iPadOS	Apple A10X Fusion
iPad Pro (10.5-inch)	A1701 A1709 A1852	iPadOS	Apple A10X Fusion
iPad (7th generation)	A2198 A2199 A2200	iPadOS	Apple A10 Fusion
iPad (6th generation)	A1893 A1954	iPadOS	Apple A10 Fusion
iPad Pro (12.9-inch)	A1584 A1652	iPadOS	Apple A9X
iPad Pro (9.7-inch)	A1673 A1674 A1675	iPadOS	Apple A9X
iPad (5th generation)	A1822 A1823	iPadOS	Apple A9

1.2 Document Purpose and Scope

This document describes the installation and Common Criteria evaluation related usage of Apple iOS 14 and iPadOS 14: Contacts on iPhone and iPad devices.

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

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

2 Installation/Update

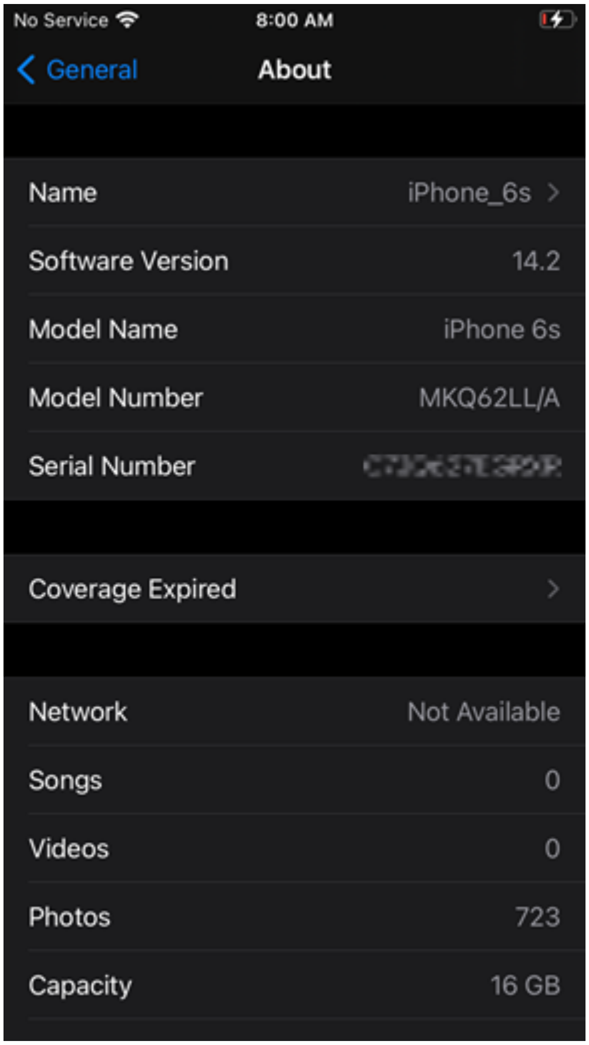
Contacts is loaded by default on Apple iOS 14 and iPadOS 14. However, if Contacts is deleted from the platform, it may be re-installed via the Apple App Store. All applications found on the Apple App Store are digitally signed.

2.1 Checking the Version

Contacts is a core Apple application, so it is versioned with the OS. The following steps are followed in order to verify the application (and OS) version.

1. Open the "Settings" app.
2. Tap the "General" option.
3. Tap the "About" option to view the current version.

An example of this version verification process for iOS can be found in Figure 1. Note that the Software Version field indicates version 14.2.

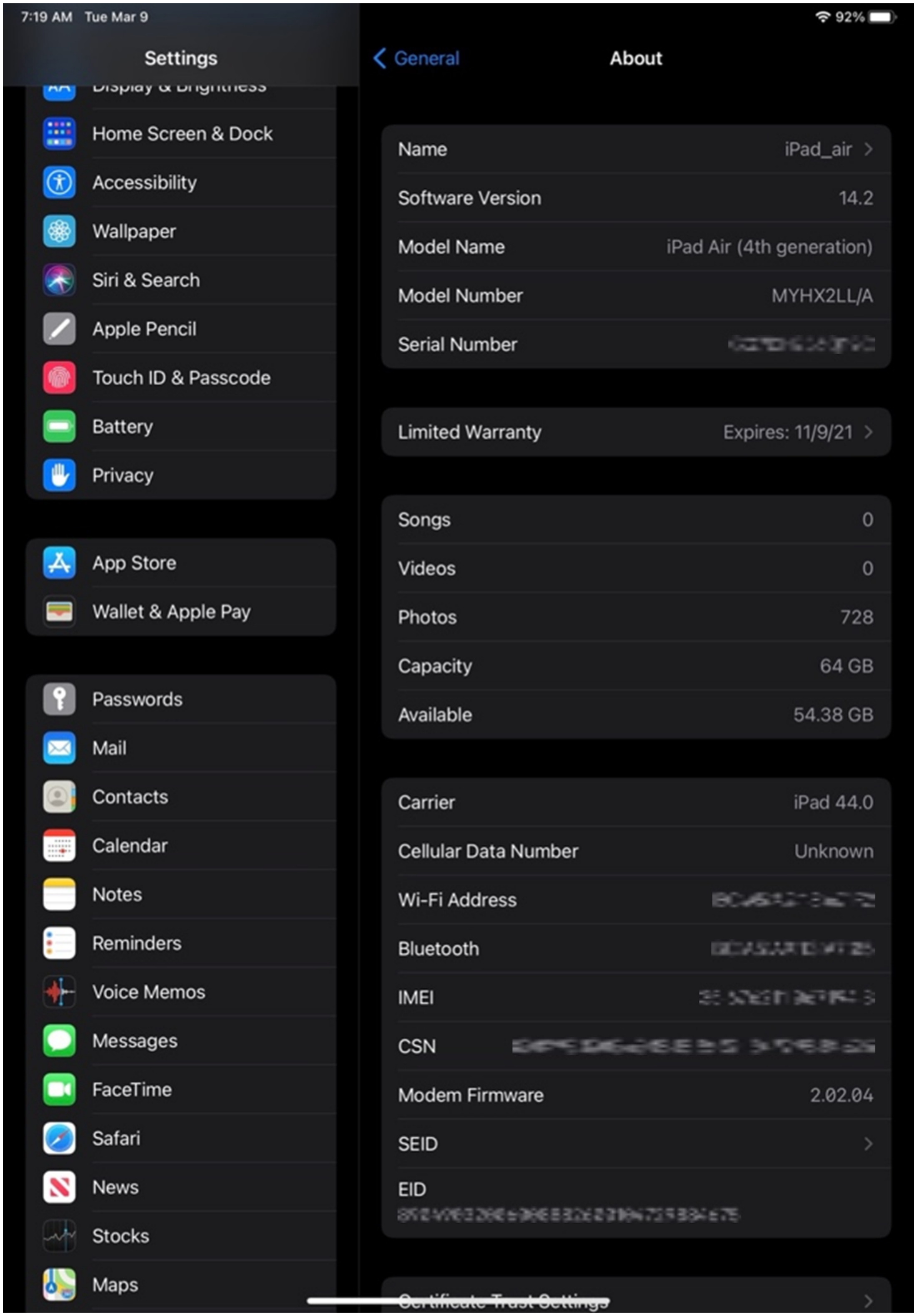


About

Name	iPhone_6s ›
Software Version	14.2
Model Name	iPhone 6s
Model Number	MKQ62LL/A
Serial Number	[redacted]
Coverage Expired	›
Network	Not Available
Songs	0
Videos	0
Photos	723
Capacity	16 GB

Figure 1 – iOS Version Verification

An example of this version verification process for iPadOS can be found in Figure 2. Note that the Software Version field indicates version 14.2.



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Settings

- Display & Brightness
- Home Screen & Dock
- Accessibility
- Wallpaper
- Siri & Search
- Apple Pencil
- Touch ID & Passcode
- Battery
- Privacy

- App Store
- Wallet & Apple Pay

- Passwords
- Mail
- Contacts
- Calendar
- Notes
- Reminders
- Voice Memos
- Messages
- FaceTime
- Safari
- News
- Stocks
- Maps

< General About

Name	iPad_air >
Software Version	14.2
Model Name	iPad Air (4th generation)
Model Number	MYHX2LL/A
Serial Number	[redacted]
Limited Warranty	Expires: 11/9/21 >
Songs	0
Videos	0
Photos	728
Capacity	64 GB
Available	54.38 GB
Carrier	iPad 44.0
Cellular Data Number	Unknown
Wi-Fi Address	[redacted]
Bluetooth	[redacted]
IMEI	[redacted]
CSN	[redacted]
Modem Firmware	2.02.04
SEID	>
EID	[redacted]
Certificate Trust Settings	>

Figure 2 – iPadOS Version Verification

2.2 Installing Updates

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).

1. Open the “Settings” app.
2. Tap the “General” option.
3. Tap the “Software Update” option to view and install any updates.

2.3 Other Assumptions

In order to use Contacts in the evaluated configuration, the Platform (i.e., the iPhone or iPad) must also be configured to meet the requirements of the Protection Profile for Application Software Version 1.3 as set forth in the Security Target and guidance documentation for the Apple iOS 14 and iPadOS 14 software operating on one of the hardware platforms listed in Table 1.

3 Secure Communications

3.1 TLS Configuration

Contacts supports synchronization of a user's contacts with Apple servers or other user-configured servers via HTTPS/TLS.

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

3.2 Digital Certificates

Contacts leverages "Trusted" digital certificates that pre-installed in the iOS and iPadOS Trust Store. No configuration is required to facilitate the usage of these digital certificates. Additional information regarding the Apple iOS 14 and iPadOS 14 Trust Store may be found at: https://support.apple.com/HT210770. Additional trust anchors may be added by the user by performing the following steps:

1. Copy the CA certificate to the device.
2. Open the certificate.
3. Open the Settings app.
4. Select 'Profile Downloaded'.
5. Tap 'Install'.
6. Enter your passcode to authorize the installation.
7. Tap 'Install' to acknowledge the warning.
8. Tap 'Install' to confirm the installation.
9. In the Settings app, go to 'General -> 'About' -> 'Certificate Trust Settings'.
10. Tap the toggle next to the certificate to enable the certificate as a trust anchor.

Contacts additionally leverages pre-configured reference identifiers for connecting with the Apple servers. Again, no configuration is required. When connecting to non-Apple servers, the reference identifier is automatically created from the configured DNS name or IP address.

4 Resource Usage

Contacts uses the following resources:

- Network Connectivity: This is used for Contacts to communicate with remote Apple servers or other user-configured servers to synchronize contacts.
- Camera: This is used for Contacts to associate a picture with contacts.
- Photo Library: This is used to access photos and associate them with contacts.
- Address Book: This is required for Contacts to operate as it is intended.

5 Acronyms

Table 2 – Acronyms

Acronym	Definition
DNS	Domain Name System
HTTPS	Hypertext Transfer Protocol Secure
IP	Internet Protocol
OS	Operating System
TLS	Transport Layer Security

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