



Apple Inc.
Certification Authority
Certification Practice Statement
Apple Application Integration

Version 6.7
Effective Date: August 6, 2020



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1. Introduction

This Certification Practice Statement (“CPS”) describes the practices employed by Apple Inc. (“Apple”) acting as the Certification Authority (“AAI Sub-CA”) that issues subordinate CAs and end-entity certificates in support of Apple applications.

These practices, and the structure of this document, are designed to align to the requirements defined in the Apple Certificate Policy (“CP”). Where the CP defines policies that all applicable Apple Sub-CAs are required to follow, this CPS provides more detailed information about the practices relating to certificate lifecycle services, such as issuance, management, revocation, renewal, and rekeying, as well as details relating to other business, legal, and technical matters specific to the AAI Sub-CA

1.1. Trademarks

Apple, OS X, macOS, iOS, and watchOS are trademarks of Apple Inc., in the United States and other countries.

1.2. Table of acronyms

Please refer to the CP for a table of acronyms used within this document.

1.3. Definitions

For the purposes of this CPS:

- Apple OS refers to macOS, iOS, and/or watchOS.
- Apple Push Notification Service (“APNs”) refers to the Apple mobile service that allows for propagation of information to iOS devices using notifications pushed from the provider to the target iOS device.
- “Apple Push Certificates Portal” refers to an Apple Internet site where Push Notification Certificates can be managed (e.g. downloaded, revoked, etc.) by Subscribers. The management options available to Subscribers may vary by certificate type.
- “Keychain” refers to Apple’s password management system in macOS and iOS. A Keychain can contain various types of data, including passwords, private keys, and digital certificates.
- “AppleCare” refers to Apple’s hardware warranty and support service.
- “AirDrop” refers to Apple’s ad-hoc service for sharing files between devices.
- “Apple Pay” refers to Apple’s mobile payment service.
- “Person to Person Payments” refers to features of iOS and watchOS that allow users to send and receive money.

Please refer to the CP for all other definitions used within this document.



2. General business practices

This section establishes and sets forth the general business practices for the AAI Sub-CA.

2.1. Identification

For the purposes of this CPS, the term Apple PKI refers collectively to Apple PKI Service Providers and End Entities. Apple PKI Service Providers consist of (1) Apple Certification Authorities ("CAs"), including the Apple Root CA and the AAI Sub-CA, and their related management teams that generate, issue, distribute, revoke and manage cryptographic keys and Certificates, (2) Apple Registration Authorities ("Apple RAs"), and (3) the Apple CA Policy Authority ("Apple PA," or "PA"). End Entities are Subscribers of Certificates.

The AAI Sub-CA issues and administers Certificates in accordance with policies in the Apple CP document.

2.2. Community and applicability

This CPS is applicable to the following end-entity certificates issued by the AAI Sub-CA:

- Apple ID Certificates ("Apple ID Certificates")
- Server Push Service Production Certificates ("Server Push Production Certificates")
- Server Push Service Development Certificates ("Server Push Development Certificates")
- AppleCare Profile Signing Certificates ("Profile Signing Certificates")
- Apple ID Validation Record Signing Certificates ("Validation Record Certificates")
- Apple Safari Extension Signing Certificates
- Apple Encryption Certificates for Apple Entities
- Apple Encryption Certificates for non-Apple Entities
- Apple Signing Certificates for Apple Entities
- Apple Signing Certificates for non-Apple Entities

Certificates used exclusively for functions internal to Apple products and/or Apple processes are not included within the scope of this CPS.

2.3. Contact details

The CA's Certificate Policies are administered by the Apple CA Policy Authority. The contact information for this CPS is:

Apple CA Policy Authority
C/O General Counsel
Apple Inc.
One Apple Park Way
Cupertino, CA 95014



(408) 996-1010
policy_authority@apple.com

2.4. Apportionment of liability

Apple ID Certificates:

- For Apple ID Certificates, a Subscriber Agreement may be incorporated in the applicable End User License Agreement (“EULA”).

Server Push Production Certificate and Server Push Development Certificates:

- For the Certificates issued to macOS end users, a Subscriber agreement is incorporated in the applicable End User License Agreement (“EULA”) of macOS Server.
- For the Certificates issued to end users of third-party servers that are authorized by Apple to use the Apple Push Notification Service (“APNs”), a Subscriber agreement is incorporated in the Program License Agreement (“PLA”) in the Apple Push Certificates Portal.

For Apple ID, Apple ID Validation Record Signing, Server Push Certificates, and Apple Safari Extension Signing Certificates, there is not an applicable Relying Party agreement as the Relying Parties are internal to Apple. Through normal use, the Apple OS may determine the status of the Certificate through a CRL or OCSP request, however Apple is considered to be the Relying Party in these instances.

AppleCare Profile Signing Certificates:

- Applicable relying party language is incorporated into the macOS and iOS End User License Agreements (“EULA”), or this CPS. There is not an applicable Subscriber agreement as the Subscriber is internal to Apple.

Apple Encryption Certificates for Apple Entities

- Applicable relying party language is incorporated into the applicable agreements, or this CPS. There is not an applicable Subscriber agreement as the Subscriber is internal to Apple.

Apple Encryption Certificates for non-Apple Entities:

- There is not an applicable Relying Party agreement as the Relying Parties are internal to Apple. The Subscriber requirements may be incorporated in this CPS.

Apple Signing Certificates for Apple Entities:

- Applicable relying party language is incorporated into the applicable agreements, or this CPS. There is not an applicable Subscriber agreement as the Subscriber is internal to Apple.

Apple Signing Certificates for non-Apple Entities:

- There is not an applicable Relying Party agreement as the Relying Parties are internal to Apple. The Subscriber requirements may be incorporated in this CPS.



2.4.1. Warranties to Subscribers

The AAI Sub-CA does not warrant the use of any Certificate to any Subscriber.

2.4.2. CA disclaimers of warranties

To the extent permitted by applicable law, Subscriber agreements, if applicable, disclaim warranties from Apple, including any warranty of merchantability or fitness for a particular purpose.

2.4.3. CA limitations of liability

To the extent permitted by applicable law, Subscriber agreements, if applicable, shall limit liability on the part of Apple and shall exclude liability for indirect, special, incidental, and consequential damages.

2.4.4. Subscriber warranties

For Apple ID Certificates, Server Push Production Certificates, Server Push Development Certificates, Apple Encryption Certificates for non-Apple Entities, Subscribers are required to warrant the following, which may be included in a Subscriber Agreement:

- They will take no action to interfere with the normal operation of a Certificate issued from the AAI Sub-CA, or products that rely on such certificates.
- They are solely responsible for preventing any unauthorized person from having access to the Subscriber's private key stored on any device from which the Subscriber has participated in the services where the CA functionality is enabled.
- The Certificates are being used exclusively for authorized and legal purposes.

2.4.5. Private key compromise

Apple reserves the right to revoke any Certificates, without notice, if it believes the Subscriber's private key has been compromised, or upon request from the Subscriber.

2.4.6. Subscriber and Relying Party liability

Subscribers will hold Apple harmless from any and all liabilities, losses, actions, damages, or claims (including all reasonable expenses, costs, and attorney's fees) arising out of or relating to their use of any digital Certificate. Relying Party terms in the applicable End User License Agreement apply to the extent users are relying parties.

2.5. Financial responsibility

This section sets forth policies as requirements on the AAI Sub-CA related to indemnification by Relying Parties and disclosure of fiduciary relationships in relying party agreements.

2.5.1. Indemnification by Subscribers

Any Subscriber agreement may, at Apple's discretion, include an indemnification clause by Subscribers.



2.5.2. Fiduciary relationships

There is no fiduciary relationship between Apple and Subscribers.

2.6. Interpretation and enforcement

Interpretation and enforcement of any subscriber agreement is governed by the terms and conditions in the applicable End User License Agreement.

2.6.1. Governing law

Governing law of any subscriber agreement is governed by the terms and conditions in the applicable End User License Agreement (“EULA”) or Program License Agreement (“PLA”).

2.6.2. Severability, survival, merger, notice

Severability, survival, merger and notice if applicable, are governed by the terms and conditions in the applicable End User License Agreement (“EULA”) or Program License Agreement (“PLA”).

2.6.3. Dispute resolution procedures

Dispute resolution procedures of any subscriber agreement are governed by the terms and conditions in the applicable End User License Agreement (“EULA”) or Program License Agreement (“PLA”).

2.7. Fees

This section sets forth policies associated with any fees charged to Subscribers for Certification Authority services for each type of Certificate.

2.7.1. Certificate issuance or renewal fees

No fees are charged for this service. Certificates are valid during the validity period as set forth in the Certificates unless otherwise revoked.

2.7.2. Certificate access fees

No fees are charged for this service.

2.7.3. Revocation or status information access fees

No fees are charged for this service.

2.7.4. Fees for other services

No other fees are charged for CA services.

2.7.5. Refund policy

Not Applicable.



2.8. Publication and Repository

2.8.1. Publication of CA information

The latest version of this CPS for the AAI Sub-CA can be found at:

<https://www.apple.com/certificateauthority/>.

2.8.2. Frequency of publication

The CPS will be published in the repository after approval by the Apple PA. Sub-CA Certificates and CRLs are published in the repository after issuance.

2.8.3. Access controls

There is no public repository of Subscriber certificates. Apple may require Subscribers to agree to a Subscriber Agreement to access their own Certificates. Server Push Production and Development Subscribers shall have access to their Certificates through the Apple Push Certificates Portal and/or the Keychain local certificate store in macOS.

2.9. Compliance audit requirements

The AAI Sub-CA adopts wholly all policies under this section in the CP.

2.10. Conditions for applicability

This section sets forth practices related to the use of the AAI Sub-CA.

2.10.1. Permitted uses

The AAI Sub-CA will create keys, manage keys, issue Certificates, manage key life cycles, manage certificate life cycles, operate a private repository, and perform other functions to support distribution for the following types of Certificates:

- **Apple ID Certificates:** This type of Certificate may be used by an Apple OS to identify and authenticate a user's account and enable the use of Apple OS features. This authentication allows the use of collaborative features such as sharing or synchronizing files.
- **Server Push Production Certificates:** This type of Certificate may be used by a macOS end user or a third-party server end-user, to create and maintain SSL connectivity to the Apple Push Notification Service production environment. The Certificates enable remote notifications of a designated macOS feature (e.g. mail, calendar, contact, mobile device management) to be sent via the APN service Production server to an iOS device and/or a macOS system.
- **Server Push Development Certificates:** This type of Certificate may be used by a macOS end user, or a third-party server end-user, to create and maintain SSL connectivity to the Apple Push Notification Service development environment. The Certificates enable remote notifications of a designated macOS feature (e.g. mail, calendar, contact, mobile device management) to be sent via the Apple Push Notification Service development server to an Apple iOS device and/or a macOS system.



- **AppleCare Profile Signing Certificates:** This type of Certificate may be used by Apple to sign configuration profiles for macOS and iOS.
- **Apple ID Validation Record Signing Certificates:** This type of Certificate may be used by Apple to sign Apple ID Validation Records for use with AirDrop services.
- **Apple Safari Extension Signing Certificates:** This type of Certificate may be used by Apple to sign Safari Extensions in the Safari Extensions Gallery.
- **Apple Encryption Certificates for Apple Entities:** This type of Certificate may be used to encrypt data sent to Apple.
- **Apple Encryption Certificates for non-Apple Entities:** This type of Certificate may be used by Apple to encrypt data sent to the Subscriber.
- **Apple Signing Certificates for Apple Entities:** This type of Certificate may be used by Apple to sign data in order to authenticate the source as Apple and validate the integrity of the data (it is complete and unaltered).
- **Apple Signing for non-Apple Entities:** This type of Certificate may be used by authorized non-Apple Entities to sign data in order for Apple to authenticate the source and validate the integrity of the data (it is complete and unaltered).

Certificates used exclusively for functions internal to Apple products and/or Apple processes are not included within the scope of this CPS.

2.10.2. Limitations on use

The AAI Sub-CA will not allow its Certificates to be used to create a Certification Authority or to allow its private key to sign a Certificate issued by another Certification Authority.

Except for internal-use Certificates, any Certificates issued from the AAI Sub-CA shall not be used for any purpose that is not identified in this CPS §2.10.1 as a permitted use.

2.11. Obligations

This section sets forth policies related to the obligations of the AAI Sub-CA.

2.11.1. General AAI Sub-CA obligations

The AAI Sub-CA shall:

- Conform its operations to the Apple CP and to this CPS as the same may be amended from time to time.
- Issue and publish Certificates in accordance with the Apple CP and this CPS.
- Revoke Certificates issued by the AAI Sub-CA, upon receipt of a valid request to revoke the Certificate from a person authorized to request such a revocation. The validity of the request and the authorization of the person making the request will be determined by the AAI Sub-CA.
- Publish Certificate Revocation Lists (CRLs) on a regular basis, or provide OCSP responses in accordance with the Apple CP. As applicable, the CA shall notify the subscriber that the certificate has been revoked.



2.11.2. Notification of issuance by AAI Sub-CA to Subscriber

The AAI Sub-CA will notify Subscribers of the issuance of certificates according to the following:

- **Apple ID Certificates:** For macOS, notification to Subscribers is deemed to have taken place when the Certificate is added to the Subscriber's Keychain. For iOS, notification to Subscribers is deemed to have taken place when the iOS product feature(s) utilizing certificates is used.
- **Server Push Certificates for macOS:** For Server Push Certificates issued to end users of macOS, including Production and Development certificate types, notification to Subscribers is deemed to have taken place when the Certificate is added to the Subscriber's Keychain. A Subscriber may verify the issuance, status, and contents of a Certificate using the macOS Keychain Access application.
- **Server Push Certificates for Third-Party Servers:** For Certificates issued to end users of third party servers, notification is deemed to have taken place when newly issued Certificates are made available via the Apple Push Certificates Portal. A Subscriber may verify the issuance, status, and contents of a Certificate via the Apple Push Certificates Portal.
- **AppleCare Profile Signing Certificates:** AppleCare Profile Signing Certificates are issued internally to business groups within Apple. Therefore, no external notifications are sent.
- **Apple ID Validation Record Signing Certificates:** Apple ID Validation Record Certificates are issued internally to business groups within Apple. Therefore, no external notifications are sent.
- **Apple Safari Extension Signing Certificates:** Certificates are issued internally to business groups within Apple. Therefore, no external notifications are sent.
- **Apple Encryption Certificates for Apple Entities:** Certificates are issued internally to business groups within Apple. Therefore, no external notifications are sent.
- **Apple Encryption Certificates for non-Apple Entities:** Certificates are issued via an internal process. Subscribers are notified of certificate issuance via an internal process.
- **Apple Signing Certificates for Apple Entities:** Certificates are issued internally to business groups within Apple. Therefore, no external notifications are sent.
- **Apple Signing Certificates for non-Apple Entities:** Certificates are issued via an internal process. Subscribers are notified of certificate issuance via an internal process.

2.11.3. Notification of issuance by the AAI Sub-CA to others

The AAI Sub-CA does not provide notification of issuance to parties other than the Subscriber.

2.11.4. Notification of revocation by the AAI Sub-CA to Subscriber

The AAI Sub-CA provides notification of certificate revocation to external Subscribers by email. Certificate status information is publicly available through OCSP and/or CRL.



2.11.5. Notification of revocation by the AAI Sub-CA to others

The AAI Sub-CA does not provide notification of certificate revocation by email, except to the Subscriber. Certificate status information is publicly available through OCSP and/or CRL.

2.11.6. Registration Authority obligations

A Registration Authority (“RA”) external to Apple is not used. The AAI Sub-CA performs limited RA services to provide reasonable assurance of the following:

- **Apple ID Certificates:** Certificates are issued only to Apple OS end users who present a valid Apple ID account name and password.
- **Server Push Certificates for macOS:** Both Production and Development Certificates are issued only to macOS end users who present a valid Apple ID account name and password. Additionally, the CSR must have been created by a legitimate copy of macOS.
- **Server Push Certificates for Third-Party Servers:** Both Production and Development Certificates are issued only to end users of third-party servers that are authorized by Apple to use the Apple Push Notification Service (“APNs”). Certificate applicants must present a valid Apple ID account name and password and provide a CSR that is digitally signed by a valid and designated Apple issued certificate issued to the third-party server vendor.
- **AppleCare Profile Signing Certificates:** AppleCare Profile Signing Certificates are issued to designated Apple employees who have demonstrated a need, and have been authorized to sign configuration profiles for macOS or iOS.
- **Apple ID Validation Record Signing Certificates:** Apple ID Validation Record Signing Certificates are issued to designated Apple employees who have demonstrated a need, and have been authorized to sign Apple ID Validation Records for use with AirDrop services.
- **Apple Safari Extension Signing Certificates:** Certificates are issued to designated Apple employees who have demonstrated a need, and have been authorized to sign Safari Extensions.
- **Apple Encryption Certificates for Apple Entities:** Certificates are issued to designated Apple employees who have demonstrated a need, and have been authorized.
- **Apple Encryption Certificates for non-Apple Entities:** Certificates are issued to non-Apple Entities that are authorized by Apple via an internal process.
- **Apple Signing Certificates for Apple Entities:** Certificates are issued to designated Apple employees who have demonstrated a need, and have been authorized.
- **Apple Signing Certificates for non-Apple Entities:** Certificates are issued to non-Apple Entities that are authorized by Apple via an internal process.

2.11.7. Subscriber obligations to the AAI Sub-CA

Subscribers are obligated to:



- Provide information to the AAI Sub-CA that is accurate and complete to the best of the Subscribers' knowledge and belief regarding information in their certificates and identification and authentication information and promptly notify the CA of any changes to this information.
- Safeguard their private key from compromise.
- Use their Certificates exclusively for legal purposes.
- Promptly request that the AAI Sub-CA revoke a Certificate if the Subscriber has reason to believe there has been a compromise of the Certificate's associated private key according to the process described in the section entitled "Certificate Revocation".
- Take no action to transfer their Certificate to any third-party unless otherwise authorized by Apple.

2.11.8. Relying Party obligations to the AAI Sub-CA

Relying Parties are obligated to:

- Acknowledge that they are solely responsible for deciding whether or not to rely on the information in a Certificate, and agree that they have sufficient information to make an informed decision. Apple shall not be responsible for assessing the appropriateness of the use of a Certificate.
- Acknowledge that, to the extent permitted by applicable law, Apple hereby disclaims all warranties regarding the use of any Certificates, including any warranty of merchantability or fitness for a particular purpose. In addition, Apple hereby limits its liability, and excludes all liability for indirect, special, incidental, and consequential damages.
- Restrict reliance on Certificates issued by the CA to the purposes for which those Certificates were issued, in accordance with the CP and this CPS.



3. Key life cycle management

This section sets forth practices related to the key life cycle management controls of the AAI Sub-CA.

3.1. Sub-CA key generation

Sub-CA signing key generations occur using a secure cryptographic device meeting the requirements as described in CP §3.2. The signing key pair for the Apple Application Integration Sub-CA and the Apple Application Integration 2 Sub-CA is 2048-bits using the RSA algorithm. The signing key pair for the Apple Application Integration – G3 Sub-CA is a 256-bit Elliptic Curve Cryptography (ECC) key.

Sub-CA signing keys are used to sign Certificates and Certificate Revocation Lists (CRLs).

The maximum lifetime of an AAI Sub-CA private key is fifteen (15) years.

3.2. Sub-CA private key protection

3.2.1. Sub-CA private key storage

Each AAI Sub-CA private key is stored in a Hardware Security Module (HSM) that is tamper resistant and certified at a minimum level of FIPS 140-2 Level 3 or higher.

3.2.2. Sub-CA private key control

There is a separation of physical and logical access to each AAI Sub-CA private key, and a minimum of two individuals is required for physical access to the HSM where the Sub-CA private keys are stored.

3.2.3. Sub-CA key escrow

AAI Sub-CA private keys shall not be placed in escrow.

3.2.4. Sub-CA key backup

AAI Sub-CA private keys are backed up for recovery purposes. Backups are stored in a secured environment, and a minimum of two individuals are required for logical recovery.

3.2.5. Sub-CA key archival

The AAI Sub-CA shall archive any necessary keys for a period of time sufficient to support the responsibilities of the AAI Sub-CA.

3.3. Sub-CA public key distribution

Each Sub-CA public key will be contained in an X.509 Certificate signed by an Apple Root CA, and may be provided to Subscribers and Relying Parties as necessary.

3.4. Sub-CA key changeover

When a new private key is required, a new Sub-CA signing key pair will be generated and all subsequently issued certificates and CRLs are signed with the new private signing key. The



corresponding new Sub-CA public key Certificate may be provided to Subscribers and Relying Parties as necessary.

3.5. Subscriber key pair generation

The AAI Sub-CA does not provide Subscriber key pair generation services.

3.6. Subscriber private key protection

The AAI Sub-CA does not provide Subscriber key pair protection services.



4. Certificate life cycle management

This section sets forth practices related to the certificate life cycle management controls of the AAI Sub-CA.

4.1. External RA requirements

An external Registration Authority is not utilized by the AAI Sub-CA.

4.2. Certificate registration

Apple ID Certificates:

- The issuance of an Apple ID Certificate is contingent upon the requesting Subscriber presenting a valid Apple ID account name and password through an Apple OS when features are enabled that require the use of an Apple ID certificate.
- The applicable Apple OS authenticates to Apple using the Apple ID account name and password presented by the user. If the account is valid, a private/public key pair and corresponding Certificate Signing Request (“CSR”), is generated by the applicable Apple OS Security Framework.
- The CSR is submitted to Apple by the applicable Apple OS. Once the CSR is validated by Apple, a Certificate is issued by the Apple Application Integration Sub-CA and added to the Subscriber’s Keychain.
- The common name associated with an Apple ID Certificate is a unique identification string assigned by Apple.

Server Push Certificates for macOS:

- Server Push Certificates for macOS are issued as a set, where separate certificates are used for different macOS features (e.g. email, calendar, contacts, mobile device management). Certificate life cycle events (e.g. issuance, revocation, etc.) are applied to the full set, and the certificates are not managed separately.
- For both Production and Development certificate types, the issuance of a set of Server Push Certificates to macOS end users requires the requesting Subscriber to present a valid Apple ID account name and password within the server administration console of macOS. Additionally, the Apple ID account must be associated with a verified email address, and the Subscriber must have a legitimate copy of macOS.
- macOS authenticates to Apple using the Apple ID account name and password presented by the macOS Server user in the server administration console. macOS creates a set of Certificate Signing Requests (“CSRs”) using corresponding private/public key pairs that are generated by the macOS Security Framework. The CSRs are subjected to additional processing by macOS to demonstrate they were generated by a legitimate copy of macOS.
- macOS submits the CSRs to Apple. The Apple ID account name and password are first validated by Apple, after which the CSRs are also validated to confirm that it was signed using the certificate in the macOS bootstrap library that has been digitally signed by the Apple Root CA. Once the CSRs are validated, a set of Certificates is issued by the Apple Application Integration Sub-CA and downloaded automatically to the Keychain local



certificate store of macOS. Each Certificate supports a specific Apple Push Notification Service feature, such as mail, contact, calendar, and mobile device management.

- The common name associated with Server Push Certificates for macOS is a unique identification string assigned by Apple.

Server Push Certificates for Third-Party Servers:

- Certificates for Third-Party Servers are managed individually. The issuance of Server Push Certificates requires Subscribers to be end users of third-party servers that are authorized by Apple to use the Apple Push Notification Service (“APNs”). Subscribers also must present a valid Apple ID account name and password with a verified email address.
- The third-party server vendor holding a Server Push Notification Certificate that is designated for at least one of the push features (e.g. email, calendar, contacts, mobile device management), receives a certificate request from the Subscriber and generates a CSR on their behalf, countersigned using the third-party server vendor’s private key. This demonstrates that the Subscriber is a user of the authorized third-party server. The Subscriber authenticates to the Apple Push Certificates Portal using his or her Apple ID account name and password, completes a registration form, and uploads the CSR digitally signed with the third-party server vendor’s private key to Apple.
- Apple verifies that the CSR is signed using the private key of the third-party server vendor’s Server Push Notification Certificate that is designated for at least one of the push features (e.g. email, calendar, contacts, mobile device management). Upon verification, the CSR is processed by Apple and the Certificate is issued by the Apple Application Integration Sub-CA. The Subscriber is notified that the Certificate is available for download from the Apple Push Certificates Portal.
- The common name associated with a Server Push Certificate for Third-Party Servers is a unique identification string assigned by Apple.

AppleCare Profile Signing Certificates:

- The issuance of AppleCare Profile Signing Certificates, for use by designated Apple employees is controlled by an internal identification and authentication process.

Apple ID Validation Record Signing Certificates:

- The issuance of Apple ID Validation Record Signing Certificates, for use by designated Apple employees, is controlled by an internal identification and authentication process.

Apple Safari Extension Signing Certificates:

- The issuance of Apple Safari Extension Signing Certificates, for use by designated Apple employees, is controlled by an internal identification and authentication process.

Apple Encryption Certificates for Apple Entities:

- The issuance of Apple Encryption Certificates for Apple Entities is controlled by an internal identification and authentication process.

Apple Encryption Certificates for non-Apple Entities:

- The issuance of Apple Encryption Certificates for non-Apple Entities is controlled by an internal identification and authentication process.

**Apple Signing Certificates for Apple Entities:**

- The issuance of Apple Signing Certificates for Apple Entities is controlled by an internal identification and authentication process.

Apple Signing Certificates for non-Apple Entities:

- The issuance of Apple Signing Certificates for non-Apple Entities is controlled by an internal identification and authentication process.

4.3. Certificate renewal

Apple ID Certificates:

- When an Apple OS detects that a Subscriber's applicable Certificate is nearing expiration, it automatically generates a new CSR with a new key pair and submits the CSR to Apple for Certificate generation. This is the same process as the initial issuance.

Server Push Certificates for macOS:

- During the 30-day period before the Certificate expires, both for Production and Development certificate types, the Subscriber is notified that the Certificate will expire by email. Upon the end user's request in the server administration console of macOS, a set of new CSRs will be issued and submitted to Apple for Certificate generation and signing using the same process as the initial issuance.

Server Push Certificates for Third-Party Servers:

- During the 30-day period before the Certificate expires, the Subscriber is notified by email that the Certificate is about to expire. He or she must return to the Apple Push Certificates Portal and submit new CSR(s). This is the same process used at initial Certificate issuance.

AppleCare Profile Signing Certificates:

- AppleCare Profile Signing Certificates are manually renewed as needed via an internal process.

Apple ID Validation Record Signing Certificates:

- Apple ID Validation Record Signing Certificates are manually renewed as needed via an internal process.

Apple Safari Extension Signing Certificates:

- Apple Safari Extension Signing Certificates are manually renewed as needed via an internal process.

Apple Encryption Certificates for Apple Entities:

- Apple Encryption Certificates for Apple Entities are manually renewed as needed via an internal process.

Apple Encryption Certificates for non-Apple Entities:

- Apple Encryption Certificates for non-Apple Entities are manually renewed as needed via an internal process.

Apple Signing Certificates for Apple Entities:



- Apple Signing Certificates for Apple Entities are manually renewed as needed via an internal process.

Apple Signing Certificates for non-Apple Entities:

- Apple Signing Certificates for non-Apple Entities are manually renewed as needed via an internal process.

4.4. Certificate rekey

The AAI Sub-CA does not rekey certificates. Compromised keys result in completely new key sets and certificates being issued.

4.5. Certificate issuance

Certificates are issued to the X.509 standard. Certificates are signed using the AAI Sub-CA signing key. Refer to CP §2.11.2 for the requirements of an Apple CA to notify Subscribers about issuance of a Certificate. Refer to this CPS §4.11 for Certificate format, profile requirements, and required extension fields.

4.6. Certificate acceptance

For all Certificate types, the following conduct constitutes certificate acceptance:

- Downloading a Certificate, or using product features that utilize a certificate, constitutes the Subscriber's acceptance of the Certificate.
- Failure of the Subscriber to object to the certificate or its content constitutes Certificate acceptance.

4.7. Certificate distribution**Apple ID Certificates:**

- Apple ID Certificates will be distributed to the Subscriber directly in the Subscriber's Keychain local certificate store in macOS or iOS upon issuance. There is no public distribution of the Apple ID Certificates.

Server Push Certificates for macOS:

- For Certificates issued to macOS end users, Certificates will be distributed to the Subscriber directly to the Subscriber's Keychain local certificate store in macOS upon issuance. There is no public distribution of the Certificates.

Server Push Certificates for Third-Party Servers:

- Server push certificates for third-party servers will be distributed to the Subscriber through the Apple Push Certificates Portal upon issuance. There is no public distribution of the Certificates.

AppleCare Profile Signing Certificates:

- AppleCare Profile Signing Certificates are made available for use by Apple business groups and included with applicable configuration profiles.

**Apple ID Validation Record Signing Certificates:**

- Apple ID Validation Record Signing Certificates are made available for use by Apple business groups.

Apple Safari Extension Signing Certificates:

- Apple Safari Extension Signing Certificates are made available for use by Apple business groups.

Apple Encryption Certificates for Apple Entities:

- Apple Encryption Certificates for Apple Entities are made available for use by Apple business groups.

Apple Encryption Certificates for non-Apple Entities:

- Apple Encryption Certificates for non-Apple Entities will be distributed to the Subscriber via an internal process. There is no public distribution of the Certificates.

Apple Signing Certificates for Apple Entities:

- Apple Signing Certificates for Apple Entities are made available for use by Apple business groups.

Apple Signing Certificates for non-Apple Entities:

- Apple Signing Certificates for non-Apple Entities will be distributed to the Subscriber via an internal process. There is no public distribution of the Certificates.

4.8. Certificate revocation

Certificates may be revoked by Apple for any reason without notice to the Subscriber.

Additional applicable revocation criteria are as follows:

Apple ID Certificates:

- The certificate revocation process for Apple ID Certificates will commence upon receipt of a valid request to reset the password for the Apple ID account of the Subscriber via the <https://iforgot.apple.com>. The Subscriber is asked to follow the process, providing applicable credentials (e.g. answer to secret security question) to reset the password. All Apple ID Certificates associated with the Apple ID will be revoked upon reset of the password. Once a certificate has been revoked, its revocation status cannot be modified. After revocation, a new certificate can be requested according the initial issuance process.

Server Push Certificates for macOS:

- The certificate revocation process will commence upon receipt of a valid request to revoke the set of Certificates from the Subscriber via the Apple Push Certificates Portal. The Subscriber will be required to authenticate using his or her Apple ID account name and password. After authentication, the Subscriber will indicate that they wish to revoke their set of Certificates by clicking on the revoke button. Once a certificate has been revoked, its revocation status cannot be modified. An email is sent to the Subscriber to notify that the certificate has been revoked.

Server Push Certificates for Third-Party Servers:



- The certificate revocation process will commence upon receipt of a valid request to revoke the Certificate from the Subscriber via the Apple Push Certificates Portal. The Subscriber will be required to log into the Apple Push Certificates Portal using his or her valid Apple ID account name and password. After authentication, the Subscriber will click on the revocation link for the Certificate they intend to revoke. An email is sent to Subscribers to notify that the certificate has been revoked.

AppleCare Profile Signing Certificates:

- The Certificate revocation process will commence upon a request to revoke the certificate from an authorized Apple employee.

Apple ID Validation Record Signing Certificates:

- The Certificate revocation process will commence upon a request to revoke the certificate from an authorized Apple employee.

Apple Safari Extension Signing Certificates:

- The Certificate revocation process will commence upon a request to revoke the certificate from an authorized Apple employee.

Apple Encryption Certificates for Apple Entities:

- The Certificate revocation process will commence upon a request to revoke the certificate from an authorized Apple employee.

Apple Encryption Certificates for non-Apple Entities:

- The Certificate revocation process will commence upon receipt of a valid request to revoke the Certificate from the Subscriber via an internal process.

Apple Signing Certificates for Apple Entities:

- The Certificate revocation process will commence upon a request to revoke the certificate from an authorized Apple employee.

Apple Signing Certificates for non-Apple Entities:

- The Certificate revocation process will commence upon receipt of a valid request to revoke the Certificate from the Subscriber via an internal process.

4.9. Certificate suspension

Certificate suspension is not supported. Instead, Subscribers are required to revoke their current Certificates and request new ones.

4.10. Certificate status

The AAI Sub-CA utilizes two methods for certificate validation: Certificate Revocation List (CRL) and Online Certificate Status Protocol (OCSP). Refer to the CRL Distribution Point (“CDP”) or the Authority Information Access (“AIA”) extensions in the Certificates for the status information method used for each Certificate type.



4.10.1. CRL usage

Subscribers and/or Relying Parties may use a CRL, which is updated periodically at Apple’s sole discretion, to determine the status of a particular Certificate. Revoked Certificates remain in the CRL until the Certificates have expired. More than one CRL may be valid at a particular time.

Certificates and CRLs issued by the AAI Sub-CA shall be retained for a period of not less than two (2) years.

4.10.2. OCSP usage

Subscribers and/or Replying Parties may use OCSP to determine the status of a particular Certificate. Revoked Certificates remain marked as “revoked” for the certificate lifetime. Delegate Certificates signed by the AAI Sub-CA are used to sign all OCSP responses. More than one OCSP responder Certificate can be in operation at the same time.

OCSP status requests must contain at a minimum the certificate serial number to receive a valid response. Once an OCSP request has been validated, a signed response is sent to the requestor indicating the status of the Certificate and showing the request was successful. Failed OCSP requests will generate a failure status back to the requestor.

4.10.3. OCSP Designated Responder Certificates

Details of the Certificate used to sign the OCSP responses are as follows:

- Effective life of the Certificate may vary at Apple’s discretion.
- More than one valid OCSP Designated Responder Certificate may exist at one time.
- Each OCSP Designated Responder Certificate will have a unique public/private key pair.
- Suspension of the OCSP Designated Responder Certificates is not supported.

4.11. Certificate Profiles

Certificates issued by the AAI Sub-CA shall conform to the X.509 version 3 Certificate format, and shall contain the following elements:

Field/Attribute	Value
Issuer DN	C = US, O = Apple Inc., OU = Apple Certification Authority, CN = Apple Application Integration Certification Authority, or C = US, O = Apple Inc., OU = Apple Certification Authority, CN = Apple Application Integration 2 Certification Authority or C = US, O = Apple Inc., OU = Apple Certification Authority, CN = Apple Application Integration CA – G3 or



	C = US, O = Apple Inc., OU = Apple Certification Authority, CN = Apple Application Integration CA 5 - G1 or C = US, O = Apple Inc., OU = Apple Certification Authority, CN = Apple Application Integration CA 6 - G1
CRL Distribution Points and/or Certificate Authority Information Access	URL of the location where a Relying Party can check the status of a certificate.



Individual certificate profiles also contain the following:

4.11.1. Apple ID Certificates

Field/Attribute	Critical	Value
Signature Algorithm	N/A	SHA-2 with RSA Encryption
Key Usage	Yes	Digital Signature
	Yes	Key Agreement
Extended Key Usage	No	Server Auth (1.3.6.1.5.5.7.3.1)
	No	Client Auth (1.3.6.1.5.5.7.3.2)
Custom Extensions	No	Apple ID Sharing Certificate (1.2.840.113635.100.4.7)
Basic Constraints	No	Certification Authority = No
Certificate Policy	No	Apple Certificate Policy (1.2.840.113635.100.5.1)
	No	Apple ID Sharing Certificate Policy (1.2.840.113635.100.5.7.1)

4.11.2. Server Push Production Certificates

Field/Attribute	Critical	Value
Signature Algorithm	N/A	SHA-1 with RSA Encryption
Key Usage	No	Digital Signature
Extended Key Usage	No	Client Auth (1.3.6.1.5.5.7.3.2)
Custom Extensions	No	Apple Production Push Services Certificate Extension (1.2.840.113635.100.6.3.2)
Basic Constraints	No	Certification Authority = No
Certificate Policy	No	Apple Certificate Policy (1.2.840.113635.100.5.1)

**4.11.3. Server Push Development Certificates**

Field/Attribute	Critical	Value
Signature Algorithm	N/A	SHA-1 with RSA Encryption
Key Usage	No	Digital Signature
Extended Key Usage	No	Client Auth (1.3.6.1.5.5.7.3.2)
Custom Extensions	No	Apple Development Push Services Certificate Extension (1.2.840.113635.100.6.3.1)
Basic Constraints	No	Certification Authority = No
Certificate Policy	No	Apple Certificate Policy (1.2.840.113635.100.5.1)

4.11.4. Profile Signing Certificates

Field/Attribute	Critical	Value
Signature Algorithm	N/A	SHA-2 with RSA Encryption
Key Usage	Yes	Digital Signature
Extended Key Usage	Yes	Apple Custom Extension (1.2.840.113635.100.4.16) or Apple Custom Extension (1.2.840.113635.100.4.17)
Basic Constraints	Yes	Certification Authority = No
Certificate Policy	No	Apple Certificate Policy (1.2.840.113635.100.5.1)

4.11.5. Apple ID Validation Record Signing Certificates

Field/Attribute	Critical	Value
Signature Algorithm	N/A	SHA-2 with RSA Encryption
Key Usage	Yes	Digital Signature
Custom Extensions	No	Apple Custom Extension (1.2.840.113635.100.6.25)
Basic Constraints	No	Certification Authority = No
Certificate Policy	No	Apple Certificate Policy (1.2.840.113635.100.5.1)

**4.11.6. Apple Safari Extension Signing Certificates**

Field/Attribute	Critical	Value
Signature Algorithm	N/A	SHA-2-256
Key Usage	Yes	Digital Signature
Extended Key Usage	Yes	Apple Custom Extension (1.2.840.113635.100.4.8)
Custom Extensions	Yes	Apple Custom Extension (1.2.840.113635.100.6.1.19)
Basic Constraints	Yes	Certification Authority = No
Certificate Policy	No	Apple Certificate Policy (1.2.840.113635.100.5.1)

4.11.7. Apple Encryption Certificates for Apple Entities

Field/Attribute	Critical	Value
Signature Algorithm	N/A	SHA256 with RSA or SHA256 with ECDSA
Key Usage	Yes	For end-entity RSA keys: Key Encipherment For end-entity ECC keys: Key Encipherment, Key Agreement
Custom Extensions	No	Apple Custom Extension (1.2.840.113635.100.6.45.1) or Apple Custom Extension (1.2.840.113635.100.6.62.1) or Apple Custom Extension (1.2.840.113635.100.6.63) or Apple Custom Extension (1.2.840.113635.100.6.64.1) or Apple Custom Extension (1.2.840.113635.100.6.64.6) or Apple Custom Extension (1.2.840.113635.100.6.64.10)



		Optional Apple Custom Extension (1.2.840.113635.100.6.64.3) Optional Apple Custom Extension (1.2.840.113635.100.6.64.4) or Apple Custom Extension (1.2.840.113635.100.6.64.12.1) or Apple Custom Extension (1.2.840.113635.100.6.64.12.1.*) or Apple Custom Extension (1.2.840.113635.100.13.*)
Basic Constraints	Yes	Certification Authority = No
Certificate Policy	No	Apple Certificate Policy (1.2.840.113635.100.5.1)

4.11.8. Apple Encryption Certificates for non-Apple Entities

Field/Attribute	Critical	Value
Signature Algorithm	N/A	SHA256 with RSA or SHA256 with ECDSA
Key Usage	Yes	For end-entity RSA keys: Key Encipherment For end-entity ECC keys: Key Encipherment, Key Agreement
Custom Extensions	No	Apple Custom Extension (1.2.840.113635.100.6.45.3) or Apple Custom Extension (1.2.840.113635.100.6.62.2) or Apple Custom Extension (1.2.840.113635.100.6.64.8) Optional Apple Custom Extension (1.2.840.113635.100.6.64.3) Optional Apple Custom Extension (1.2.840.113635.100.6.64.4) or Apple Custom Extension (1.2.840.113635.100.6.64.10)



		Optional Apple Custom Extension (1.2.840.113635.100.6.64.3) Optional Apple Custom Extension (1.2.840.113635.100.6.64.4) or Apple Custom Extension (1.2.840.113635.100.6.64.12.2) or Apple Custom Extension (1.2.840.113635.100.6.64.12.2.*) or Apple Custom Extension (1.2.840.113635.100.15.*)
Basic Constraints	Yes	Certification Authority = No
Certificate Policy	No	Apple Certificate Policy (1.2.840.113635.100.5.1)

4.11.9. Apple Signing Certificates for Apple Entities

Field/Attribute	Critical	Value
Signature Algorithm	N/A	SHA256 with RSA or SHA256 with ECDSA
Key Usage	Yes	Digital Signature
Custom Extensions	No	Apple Custom Extension (1.2.840.113635.100.6.45.2) or Apple Custom Extension (1.2.840.113635.100.6.29) or Apple Custom Extension (1.2.840.113635.100.6.33) or Apple Custom Extension (1.2.840.113635.100.6.64.2) or Apple Custom Extension (1.2.840.113635.100.6.64.7) or Apple Custom Extension (1.2.840.113635.100.6.64.11) or



		Apple Custom Extension (1.2.840.113635.100.6.64.12.3) or Apple Custom Extension (1.2.840.113635.100.6.64.12.3.*) or Apple Custom Extension (1.2.840.113635.100.12.*)
Basic Constraints	Yes	Certification Authority = No
Certificate Policy	No	Apple Certificate Policy (1.2.840.113635.100.5.1)
Optional Signed Certificate Timestamp (“SCT”)	No	Three SCTS from two different CT log operators

4.11.10. Apple Signing Certificates for non-Apple Entities

Field/Attribute	Critical	Value
Signature Algorithm	N/A	SHA256 with RSA or SHA256 with ECDSA
Key Usage	Yes	Digital Signature
Custom Extensions	No	Apple Custom Extension (1.2.840.113635.100.6.64.9) or Apple Custom Extension (1.2.840.113635.100.6.64.11) or Apple Custom Extension (1.2.840.113635.100.6.64.12.4) or Apple Custom Extension (1.2.840.113635.100.6.64.12.4.*) or Apple Custom Extension (1.2.840.113635.100.14.*)
Basic Constraints	Yes	Certification Authority = No
Certificate Policy	No	Apple Certificate Policy (1.2.840.113635.100.5.1)



4.12. CRL Profile

A CRL issued by the AAI Sub-CA shall conform to the X.509 version 2 CRL format. Each CRL shall contain the following fields:

- Signature Algorithm using SHA-1 with RSA Encryption, or ECDSA with SHA256
- Issuer matching the Sub-CA Certificate's Distinguished Name
- "Last Update" field with the time of CRL issuance
- "Next Update" field defining the period of validity
- Authority Key Identifier extension
- List of Revoked Certificates

4.13. Integrated circuit cards

Not applicable.



5. Environmental controls

This section sets forth practices related to the environmental controls of the AAI Sub-CA.

5.1. CPS administration

Apple has designated a Policy Authority (PA) group with final authority and responsibility for specifying and approving this CPS.

This authorized body has performed an assessment to evaluate business risks and determine the security requirements and operational procedures to be included in the CPS for the following:

- Key life cycle management controls
- Certificate life cycle management controls
- CA environmental controls

The AAI Sub-CA makes available its public CPS to all Subscribers and Relying Parties, including any revisions that occur from time to time.

Any changes to this CPS, along with the effective date of the changes, shall be reviewed by the PA, and posted in a timely manner.

5.2. CA termination

As set forth in this section, any decision to terminate the AAI Sub-CA shall be approved by the Policy Authority and an Apple Vice President prior to the effective date of termination.

At the time to termination, Apple will develop a termination plan addressing the following:

- Provision of notice to related parties affected by the termination,
- The revocation of certificates issued by the Sub-CA,
- The preservation of the Sub-CA's archives and records

5.3. Confidentiality

The AAI Sub-CA shall keep the following information confidential at all times:

- All private signing and client authentication keys
- Security and annual audits and security parameters
- Personal or non-public information about AAI Sub-CA Subscribers
- Security mechanisms

Except as required to support the WebTrust audit performed by an independent external audit firm, confidential information should not be released to third parties unless required by law or requested by a court with jurisdiction over the CA. The information will be kept confidential even after the termination of the CA.

The following information shall not be considered confidential:



- Information included in Certificates
- Any of the AAI Sub-CA public Certificates
- Information contained in the CPS and CP documents
- Any Certificate status or Certificate revocation reason code

5.4. Intellectual property rights

Certificates and CRLs issued by the AAI Sub-CA, information provided via OCSP, the CPS, and the CP are the property of Apple.

5.5. Physical security

Physical protection is achieved through the creation of clearly defined security perimeters with appropriate physical barriers to entry around the business premises and AAI Sub-CA facilities. Details of the physical security policies and procedures are in appropriate internal security documents.

Equipment is located or protected to reduce the risks from environmental threats and hazards, including but not limited to power and air conditioning disruption or failure, water exposure, fire, telecommunications disruption or failure and opportunities for unauthorized access.

At end of life, cryptographic devices are physically destroyed or zeroized in accordance to manufacturers' guidance prior to disposal.

5.6. Business continuity management

Business continuity plans to maintain or restore the Sub-CA business operations in a timely manner following interruption or failure of critical business processes.

5.7. Event logging

5.7.1. Archiving

Event journal data is archived on a periodic basis.

A risk assessment has been performed to determine the appropriate length of time for retention of archived event journals.

Archived event journals are maintained at a secure location for a predetermined period.

5.7.2. Event journal reviews

Current or archived event journals may only be retrieved by authorized individuals and only for valid business or security reasons.

Event journals are reviewed periodically.

The review of current and archived event journals includes the identification and follow-up of exceptional, unauthorized, or suspicious activity.



6. Revision history

Issue Number	Issue Date	Details
1.0	July 20, 2011	Initial release.
2.0	September 30, 2011	Added Server Push Certificates for Third-Party Servers.
3.0	December 22, 2011	Added additional usage of Apple ID certificates in iOS. Added Profile Signing Certificates.
4.0	September 18, 2013	Added Apple Application Integration 2 Certification Authority. Updated Profile Signing Certificates to AppleCare Profile Signing Certificates. Added Apple ID Validation Record Signing Certificates. Changed references of Mac OS X to OS X.
5.0	October 14, 2014	Added Apple Application Integration – G3 Certification Authority. Added Apple Pay Signing Certificates. Added Apple Pay Transaction Signing Certificates.
6.0	June 8, 2015	Added Apple Safari Extension Signing Certificates.
6.1	August 19, 2016	Changed references of OS X to macOS.
6.2	Sept 19, 2017	Added Apple Pay Person to Person Payments Certificates.
6.3	June 1, 2018	Removed Apple Pay specific Certificate types and replaced with the following Certificate types: <ul style="list-style-type: none">• Apple Encryption Certificates for Apple Entities• Apple Encryption Certificates for non-Apple Entities• Apple Signing Certificates for Apple Entities
6.4	December 21, 2018	Added Apple Signing Certificates for non-Apple Entities Certificates. Updated the following Certificate types: <ul style="list-style-type: none">• Apple Encryption Certificates for Apple Entities• Apple Encryption Certificates for non-Apple Entities



		<ul style="list-style-type: none">• Apple Signing Certificates for Apple Entities
6.5	January 11, 2019	Updated the following Certificate types: <ul style="list-style-type: none">• Apple Encryption Certificates for Apple Entities• Apple Encryption Certificates for non-Apple Entities• Apple Signing Certificates for Apple Entities• Apple Signing Certificates for non-Apple Entities
6.6	August 6, 2019	Annual review updates. Added the Apple Application Integration CA 5 - G1. Updated the following Certificate types: <ul style="list-style-type: none">• Apple Encryption Certificates for Apple Entities• Apple Encryption Certificates for non-Apple Entities• Apple Signing Certificates for Apple Entities• Apple Signing Certificates for non-Apple Entities
6.7	August 6, 2020	Added the Apple Application Integration CA 6 - G1 Updated Apple Signing Certificates for Apple Entities