Apple Inc. Certification Authority Certification Practice Statement Worldwide Developer Relations

Version 1.0 Effective Date: March 6, 2008

Table of Contents

1.		tion			
	1.1. Trademarks				
	1.2. Tab	le of acronyms	4		
1.3. Definitions					
2.	General l	business practices	5		
	2.1. Ider	ntification [']	5		
		nmunity and applicability			
	2.2.1.	Development Certificates			
	2.2.2.	Submission Certificates			
	2.2.3.				
		itact details			
		portionment of liability			
	2.4.1.	Warranties to Subscribers			
	2.4.1.				
	2.4.2.				
		CA limitations of liability			
	2.4.4.	Subscriber warranties			
	2.4.5.	Private key compromise			
	2.4.6.	Subscriber and Relying Party liability			
		ancial responsibility			
	2.5.1.	Indemnification by Subscribers			
	2.5.2.	Fiduciary relationships			
		rpretation and enforcement			
	2.6.1.	Governing law			
	2.6.2.	Severability, survival, merger, notice			
	2.6.3.	Dispute resolution procedures	7		
	2.7. Fee:	S			
	2.7.1.	Certificate issuance or renewal fees	7		
	2.7.2.	Certificate access fees			
	2.7.3.	Revocation or status information access fees			
	2.7.4.	Fees for other services			
	2.7.5.	Refund policy			
	2.8. Pub	lication and Repository	8		
	2.8.1.	Publication of CA information			
	2.8.2.	Frequency of publication			
	2.8.3.	Access controls			
	2.9. Con	npliance audit requirements	8		
	2.10. Co	nditions for applicability			
	2.10.1.	Permitted uses	8		
	2.10.2.				
	2.11. Ok	oligations			
	2.11.1.				
	2.11.2.	Notification of issuance by WWDR Sub-CA to Subscriber	9		
	2.11.3.	Notification of issuance by WWDR Sub-CA to others	9		
	2.11.4.	Notification of revocation by WWDR Sub-CA to Subscriber	<u>c</u>		
	2.11.5.	Notification of revocation by WWDR Sub-CA to others			
	2.11.6.	Registration Authority obligations			
	2.11.7.	Subscriber obligations to WWDR Sub-CA			
	2.11.8.	Relying Party obligations to WWDR Sub-CA			
3.		ycle management			
		/DR Sub-CA key generation			
		/DR Sub-CA private key protection			
	3.2.1.	WWDR Sub-CA private key storage			
	3.2.1.	WWDR Sub-CA private key storage			
	٥.८.८.	TITE OLD CIT PHILLE ICY CONTOURS	. 1 1		

	3.2.3. WWDR Sub-CA key escrow	11
	3.2.4. WWDR Sub-CA key backup	
	3.2.5. WWDR Sub-CA key archival	11
	3.3. WWDR Sub-CA public key distribution	11
	3.4. WWDR Sub-CA key changeover	11
	3.5. WWDR Sub-CA-provided Subscriber key management	12
4.	Certificate life cycle management	13
	4.1. External RA requirements	13
	4.2. Certificate registration	13
	4.3. Certificate renewal	13
	4.4. Certificate rekey	13
	4.5. Certificate issuance	13
	4.6. Certificate acceptance	
	4.7. Certificate distribution	13
	4.8. Certificate revocation	14
	4.9. Certificate suspension	14
	4.10. Certificate status	
	4.10.1. CRL usage	
	4.10.2. CRL Certificates	
	4.11. Certificate profile	
	4.11.1. Developer Identification Certificates	
	4.11.2. CRL Certificates	15
	4.12. CRL Profile	
	4.13. Integrated circuit cards	
5.	Environmental controls	
	5.1. CPS administration	16
	5.2. CA termination	
	5.3. Confidentiality	
	5.4. Intellectual property rights	
	5.5. Physical security	
	5.6. Business continuity management	
	5.7. Event logging	
	5.7.1. Archiving	
	5.7.2. Event journal reviews	
6.	Revision history	18

1. Introduction

This Certification Practice Statement ("CPS") describes the practices employed by the Apple Worldwide Developer Relations Subordinate Certification Authority ("WWDR Sub-CA," or "the Sub-CA") in issuing and managing digital certificates and related services. 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-CA's are required to follow, this CPS provides more detailed information about the practices employed by the WWDR Sub-CA 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 WWDR Sub-CA, collectively referred to as the WWDR Public Key Infrastructure ("WWDR PKI").

Apple Inc. ("Apple") established the Apple Root Certification Authority ("Apple Root CA") and the Apple PKI in support of the generation, issuance, distribution, revocation, administration and management of public/private cryptographic keys that are contained in CA-signed X.509 Certificates. The Apple PKI is intended to support internal and external Apple cryptographic requirements, where authentication of an organization or individual presenting a digitally signed or encrypted object to a Relying Party is of benefit to participants in the Apple PKI.

1.1. Trademarks

Apple, iPhone, iPod and iPod touch 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:

- "Subscriber" means a Developer who utilizes a Certificate from the WWDR Sub-CA to sign code and data as authorized by WWDR or the iPhone and iPod touch Software Development Kit ("SDK") License Agreement.
- "Developer" means an individual or organization that has registered with WWDR and has received a Developer Identification Certificate (defined below) from WWDR.
- "Developer's Agent", or "Agent" means a person authorized to act for and execute responsibilities for a company (principal) when dealing with third parties. An Agent can enter into binding agreements on the principal's behalf and is responsible for any liability for the principal if the agent causes harm while carrying out his or her duties. The principal is responsible for the acts of the agent, and the agent's acts are like those of the principal.
- "Product" means a Developer application intended for use on an Apple platform.
- "Administrator" means an individual designated by Developer's Agent to provide approval and request revocation of individual certificates by Apple for a particular entity.
- "iPhone Developer Web Portal" means a web environment located at developer.apple.com/iphone.

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 of the WWDR Sub-CA.

2.1. Identification

The practices set forth in this CPS apply exclusively to the WWDR Sub-CA. This CPS is structured similarly to the CP, disclosing details of the practices employed by the WWDR Sub-CA that address the more general requirements defined in the CP. This document assumes the reader is familiar with the general concepts of digital signatures, certificates, and public-key infrastructure. If the reader is new to Public Key Infrastructure concepts, the reader may choose to consult the introduction and overview of the WebTrust Program for Certification Authorities, a guide published by the American Institute of Certified Public Accountants (AICPA) and freely available for download from their web site, www.aicpa.org. The guide contains an overview of PKI, including an orientation on key concepts such as digital signatures, asymmetric key pairs, certification authorities, registration authorities, policy and practice statements, and business issues and considerations.

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 WWDR Sub-CA, and their related management teams that generate, issue, distribute, revoke and manage cryptographic keys and Certificates, (2) Apple Registration Authorities ("Apple RA"), and (3) the Apple CA Policy Authority ("Apple PA," or "PA"). End Entities are Subscribers of Certificates.

The WWDR 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 certificates issued by the WWDR Sub-CA:

- WWDR iPhone Software Development Certificates ("Development Certificates")
- WWDR iPhone Software Submission Certificates ("Submission Certificates")
- WWDR CRL Certificates ("CRL Certificates")

Certificates used exclusively for functions internal to Apple Products and/or Apple processes, such as device profile signing Certificates, event log signing Certificates, etc, are not included within the scope of this CPS. Together the Development and Submission Certificates may be referred to as "Developer Identification Certificates".

2.2.1. Development Certificates

The WWDR Sub-CA issues and administers Certificates that may be used by Developers to digitally sign a software application, enabling the application to be tested on an Apple iPhone and/or iPod touch.

2.2.2. Submission Certificates

The WWDR Sub-CA issues and administers Certificates used by a Developer to digitally sign software applications for submission to Apple.

2.2.3. CRL Certificates

The WWDR Sub-CA may issue and administer Certificates that sign the Sub-CA's CRLs.

2.3. Contact details

The contact information for this CPS is:

Apple CA Policy Authority C/O General Counsel Apple Inc. 1 Infinite Loop Cupertino, CA 95014

(408) 996-1010 policy authority@apple.com

2.4. Apportionment of liability

For Development and Submission Certificates, a subscriber agreement is incorporated in the applicable SDK License Agreement. There is not an applicable Relying Party agreement for the WWDR Sub-CA Certificates as the relying parties are internal to Apple. Parties external to Apple are expressly prohibited from placing reliance on any aspects of the WWDR PKI.

2.4.1. Warranties to Subscribers

The WWDR 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 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 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 WWDR Development Signing and Submission Certificates, subscriber agreements shall require Subscribers to warrant that:

- They will take no action to interfere with the normal operation of a Developer Identification Certificate 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 for which the subscriber is developing software for Apple platforms; and
- The Developer Identification 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, the Developer's Agent or Administrator.

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 attorneys fees) arising out of or relating to their use of any digital Certificate. There is not an applicable Relying Party agreement for the WWDR Sub-CA as the relying parties are internal to Apple.

2.5. Financial responsibility

This section sets forth policies as requirements on the WWDR 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 SDK License Agreement.

2.6.1. Governing law

Governing law is set forth in the SDK License Agreement.

2.6.2. Severability, survival, merger, notice

Severability, survival, merger and notice if applicable, is governed by the terms and conditions in the SDK License Agreement.

2.6.3. Dispute resolution procedures

Dispute resolution procedures are set forth in the SDK License Agreement.

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. Digital certificates are available at no additional cost to members of the iPhone Developers' Program. Certificates are valid for the duration of the membership period 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

The WWDR Sub-CA operates a private repository, which is not publicly accessible.

2.8.1. Publication of CA information

The latest version of this CPS for the WWDR Sub-CA can be found at http://www.apple.com/appleca.

2.8.2. Frequency of publication

Public key Certificates issued by the WWDR Sub-CA are made available to Subscribers via the iPhone Developer Web Portal upon issuance. Certificate status is made available via a Certificate Revocation List ("CRL") which is published upon issuance.

2.8.3. Access controls

Subscribers shall have access to their Certificates through the iPhone Developer Web Portal. The CRL will be provided in the manner described by the CRL Distribution Points extension present in the leaf Certificates issued by the WWDR Sub-CA.

2.9. Compliance audit requirements

The WWDR 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 WWDR Sub-CA.

2.10.1. Permitted uses

The WWDR 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:

- Development Certificates: This type of Certificate may be used by Developers authorized by Apple to digitally sign a software application enabling the application to be tested on an Apple iPhone and/or iPod touch and/or distributed for internal company use.
- Submission Certificates: This type of Certificate may be used by a Developer to digitally sign software applications for submission to Apple.
- CRL Certificates: This type of Certificate may be used by the WWDR Sub-CA to sign the Sub-CA's CRLs.

Certificates used exclusively for functions internal to Apple products and/or Apple processes, such as device profile signing Certificates, event log signing Certificates, etc. are not included within the scope of this CPS.

2.10.2. Limitations on use

The WWDR 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, the WWDR Sub-CA Certificates shall not be used for any purpose that is not identified in this CPS § 2.10.1 as a permitted use.

Developer Identification Certificates may be revoked by the WWDR Sub-CA for any reason.

2.11. Obligations

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

2.11.1. General WWDR Sub-CA obligations

The WWDR 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 WWDR 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 WWDR Sub-CA.

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

Notification to Subscribers is deemed to have taken place when newly issued Developer Identification Certificates are made available via the iPhone Developer Web Portal.

2.11.3. Notification of issuance by WWDR Sub-CA to others

Notification to a Developer's Agent and/or Administrator is deemed to have taken place when newly issued Developer Identification Certificates are made available via the iPhone Developer Web Portal.

2.11.4. Notification of revocation by WWDR Sub-CA to Subscriber

Notification of revocation to a Subscriber is deemed to have taken place upon publication of the CRL.

2.11.5. Notification of revocation by WWDR Sub-CA to others

Notification of revocation to a Developer's Agent and/or Administrator is deemed to have taken place upon publication of the CRL.

2.11.6. Registration Authority obligations

An external RA is not used. The WWDR Sub-CA performs limited RA services to provide reasonable assurance that Developer Identity Certificates are only issued to members of the iPhone Developer Program.

2.11.7. Subscriber obligations to WWDR Sub-CA

Subscribers, Developer's Agents and Administrators are obligated to:

- Safeguard their private key from compromise.
- Use their Developer Identification Certificates exclusively for legal purposes.
- Promptly request that the WWDR Sub-CA revoke a Certificate if the Subscriber has reason to believe there has been a compromise of the Certificate's associated private key. Notification is performed via the iPhone Developer Web Portal. After authenticating to the website, the Subscriber, Developer's Agent, or Administrator follows the link to the revocation page and enters the details of the Certificate to be revoked. Only Certificates issued to the authenticated Subscriber, or administered by the Developer's Agent or Administrator, can be revoked based upon a request from such entity.
- Promptly request that the WWDR Sub-CA revoke a Certificate if the Subscriber is not authorized to use the applicable Certificate on behalf of the Subscriber entity (e.g. no longer employed by the Subscriber entity).
- Take no action to transfer their Certificate to any third party.

2.11.8. Relying Party obligations to WWDR Sub-CA

The relying parties are internal to Apple. The WWDR PKI is not intended to be relied upon by any third party.

3. Key life cycle management

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

3.1. WWDR Sub-CA key generation

The WWDR Sub-CA signing key generation occurs using a secure cryptographic device meeting the requirements as described in CP §3.2.

The WWDR Sub-CA shall sign Certificates that may be used to associate a particular Developer with a particular software application intended for use on an Apple product, and sign the Sub-CA's CRLs.

The WWDR Sub-CA private key will cease to be used, and be replaced at the end of a designated period or when a compromise is known or suspected.

3.2. WWDR Sub-CA private key protection

3.2.1. WWDR Sub-CA private key storage

Each WWDR Sub-CA private key is stored in a Hardware Security Module (HSM) that is tamper resistant and certified at a minimum level of FIPS 140-1 Level 4.

3.2.2. WWDR Sub-CA private key control

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

3.2.3. WWDR Sub-CA key escrow

The WWDR Sub-CA private key shall not be placed in escrow.

3.2.4. WWDR Sub-CA key backup

WWDR Sub-CA private keys are backed up for recovery purposes. Backups are stored in a secured environment, and m of n secret shares are required for logical recovery.

3.2.5. WWDR Sub-CA key archival

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

3.3. WWDR Sub-CA public key distribution

The WWDR Sub-CA public key will be contained in an X.509 Certificate that may be provided to Subscribers as necessary to support the WWDR PKI.

3.4. WWDR Sub-CA key changeover

When a new private key is required, a new WWDR Sub-CA signing key pair will be generated. The corresponding new WWDR Sub-CA public key Certificate may be provided to Subscribers as necessary to support the WWDR PKI.

3.5. WWDR Sub-CA-provided Subscriber key management

The WWDR Sub-CA does not provide Subscriber key management services.

4. Certificate life cycle management

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

4.1. External RA requirements

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

4.2. Certificate registration

The issuance of a Developer Identity Certificate is contingent upon the requesting subscriber being an eligible member of the iPhone Developer Program. The iPhone Developer Web Portal verifies that the account is one that is eligible for the issuance of Apple Worldwide Developer Relations certificates and that the iPhone Developer subscription payments are current.

Eligible Subscribers create a Certificate Signing Request ("CSR") using a corresponding private/public key pair generated on the client computer. Subscribers then upload completed CSRs to the iPhone Developer Web Portal.

Upon receipt, the CSR is processed by the iPhone Developer Web Portal for validity. Once the CSR is validated and a Certificate is issued by the WWDR Sub-CA, the Subscriber is notified that the Certificate is available for download on the client computer.

The name associated with an individual Certificate is either the individual subscriber's name and organization or the organization name only.

4.3. Certificate renewal

When a Certificate expires the Subscriber will return to the iPhone Developer Web Portal and submit a new CSR. This is the same process used at initial Certificate issuance.

If the previous Certificate based on the Subscriber's key pair was marked as being revoked, iPhone Developer Web Portal will not allow renewal of that private/public key pair.

4.4. Certificate rekey

The WWDR 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 ISO 9594/X.509 standard and are valid for a minimum of six (6) months. Certificates are signed using the WWDR Sub-CA signing key.

4.6. Certificate acceptance

Once the WWDR Sub-CA generates a Certificate, developers will be able to manually download the Certificate from the iPhone Developer Web Portal.

4.7. Certificate distribution

Certificates will be distributed to the Developer through the iPhone Developer Web Portal.

4.8. Certificate revocation

The certificate revocation process will commence upon receipt of a valid request to revoke the Certificate from the Subscriber, Developer's Agent and/or Administrator via the iPhone Developer Web Portal. The Subscriber will be required to log into the iPhone Developer Web Portal. After authentication, the Subscriber will indicate that they wish to revoke their Certificate by clicking on the revocation link. Once the Subscriber has clicked the link the Certificate will be deemed revoked. Revocation of a Certificate cannot be undone. After revocation, a new Certificate must be requested.

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

4.10.1. CRL usage

All Subscribers may use a CRL to determine the status of a particular Certificate. Revoked Certificates remain in the CRL until the Certificates have expired.

4.10.2. CRL Certificates

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

- Effective life of the Certificate is no more than 365 days
- More than one valid CRL Certificate may exist at one time

4.11. Certificate profile

4.11.1. Developer Identification Certificates

A Certificate issued by the WWDR Sub-CA shall conform to the X.509 Certificate format and shall contain, at a minimum, the following data elements:

- Serial Number
- Subject Distinguished Name (including Common Name and/or Organization)
- Issuer Distinguished Name
- Algorithm used (RSA)
- Modulus (Size in bits)
- Validity period
- Certificate Policies extensions listing the CP
- Certificate qualifiers listing this CPS (URL)
- User notice qualifier
- Extended Key Usage extension, critical, with a purpose containing Code Signing (1.3.6.1.5.5.7.3.3)
- iPhone Software Submission Signing (1.2.840.113635.100.6.1.4), critical (Submission Certificates)

• iPhone Software Development Signing (1.2.840.113635.100.6.1.2), critical (Development Certificates)

4.11.2. CRL Certificates

A Certificate issued by the WWDR Sub-CA for the purposes of signing the CRL shall conform to the X.509 Certificate format and shall contain, at a minimum, the following data elements:

- Serial Number
- Subject Distinguished name
- Issuer Distinguished name
- Validity period
- Modulus (Size in bits)
- Signature Algorithm
- User notice qualifier
- Certificate Policies extension listing the CP
- Key Usage extension, critical, with a usage containing CRL Sign

4.12. CRL Profile

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

- Signature Algorithm of SHA-1 with RSA Encryption
- Issuer matching the WWDR Sub-CA Certificate's Distinguished Name
- This Update with the time of CRL issuance
- Next Update 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 WWDR Sub-CA.

5.1. CPS administration

Apple has designated a management group with final authority and responsibility for specifying and approving the WWDR Sub-CA's 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 WWDR 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 the WWDR Sub-CA's 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 WWDR Sub-CA shall be approved by a member of the Apple Executive Team prior to the effective date of termination.

The WWDR Sub-CA's private keys will be destroyed using the key destruction method supported by the WWDR Sub-CA HSM.

5.3. Confidentiality

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

- All private signing keys
- Security and annual audits and security parameters
- Personal or non-public information about WWDR 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
- The WWDR Sub-CA public Certificate
- Information contained in the CA's CPS and CP documents
- Any Certificate status or Certificate revocation reason code

5.4. Intellectual property rights

Certificates and CRLs issued by the WWDR Sub-CA, 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 WWDR 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 disruption or failure, telecommunications disruption or failure and opportunities for unauthorized access.

5.6. Business continuity management

The WWDR Sub-CA has business continuity plans to maintain or restore the WWDR Sub-CA's business operations in a timely manner following interruption or failure of critical business processes.

5.7. Event logging

5.7.1. Archiving

The WWDR Sub-CA archives event journal data on a periodic basis.

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

The WWDR Sub-CA maintains archived event journals at a secure off-site 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	03/06/08	Initial release.