

VERSION 1.5

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1. INTRODUCTION

This document is CERTISIGN ROOT CERTIFICATION AUTHORITY Certification Practice Statement (CPS). It states the practices that CERTISIGN ROOT CERTIFICATION AUTHORITY employs in providing certification services that include, but are not limited to, issuing, managing, revoking, and renewing certificates in accordance with the specific requirements of CERTISIGN TRUST NETWORK Certificate Policies ("CP").

This document is targeted at:

- CERTISIGN TRUST NETWORK PKI service providers who have to operate in terms of their own Certificate Practices (CP) that complies with the requirements laid down by the CPS
- CERTISIGN ROOT CERTIFICATION AUTHORITY certificate Subscribers who need to understand how they are authenticated and what their obligations are as CERTISIGN TRUST NETWORK subscribers and how they are protected under CERTISIGN TRUST NETWORK
- Relying parties who need to understand how much trust to place in a CERTISIGN TRUST NETWORK certificate, or a digital signature using that certificate

This CPS conforms to the Internet Engineering Task Force (IETF) RFC 3647 for Certificate Policy and Certification Practice Statement construction.

CERTISIGN TRUST NETWORK conforms to the current version of (i) CA/Browser Forum - Baseline Requirements Certificate Policy for the Issuance and Management of Publicly-Trusted Certificates- version 1.6.3 (available at https://cabforum.org/baseline-requirements-documents/), (ii) CA/Browser Forum - Guidelines For The Issuance And Management Of Extended Validation Certificates – version 1.6.8 (available at https://cabforum.org/extended-validation/) and (iii) CA/Browser Forum - Guidelines For The Issuance And Management Of Extended Validation Code Signing Certificates – version 1.4 (available at https://cabforum.org/ev-code-signing-certificate-version 1.6.8 (available at https://cabforum.org/ev-code-signing-certificate-version 1.6.8 (available at https://cabforum.org/ev-code-signing-certificate-version 1.4 (available at <a href="https://cabforum.org/ev-code-signing-certificate-guidelines-take-precedence-ver-this-document-take-precedence-v

1.1 Overview

This CPS is applicable to CERTISIGN ROOT CERTIFICATION AUTHORITY.

CERTISIGN Subordinates CAs operate as CAs under CERTISIGN TRUST NETWORK CP, issuing end-user subscriber certificates as follow:

- CERTISIGN SSL CERTIFICATION AUTHORITY issues SSL certificates under OV (Organization Validation) requirements;
- CERTISIGN SSL EV CERTIFICATION AUTHORITY issues SSL certificates under EV (Extended Validation) requirements;
- CERTISIGN CERTIFICATION AUTHORITY- issues SSL certificates under DV (Domain Validation) requirements.

Registration Authorities (RAs) are entities that authenticate certificate requests under CERTISIGN TRUST NETWORK.

CERTISIGN and Affiliates act as RAs for certificates they issue. CERTISIGN and Affiliates also enter into contractual relationships with Enterprises who wish to manage their own certificate requests. These enterprise customers act as RAs, authenticating certificate requests for themselves and their affiliated individuals. CERTISIGN or the Affiliate will then issue these authenticated certificate requests.

Depending on the type of certificate, Digital Certificates MAY be used by Subscribers to secure websites, digitally sign code or other content, digitally sign documents and/or e-mails. The person who ultimately receives a signed document or communication, or accesses a secured website is referred to as a relying party, i.e., he/she is relying on the certificate and has to make a decision on whether to trust it.



A Relying Party MUST rely on a certificate in terms of the relevant Relying Party Agreement listed in CERTISIGN TRUST NETWORK website.

1.2 Document Name and Identification

This document is CERTISIGN ROOT CERTIFICATION AUTHORITY CERTIFICATION PRACTICE STATEMENT (CPS).

1.2.1 CABF Policy Identifiers

CERTISIGN ROOT CERTIFICATION AUTHORITY OID is defined as 1.3.6.1.4.1.30253.15.

1.2.2 Revision

Version	Description	Adopted		
1.0	CERTISIGN ROOT CERTIFICATE AUTHORITY creation 09/13/2017			
1.1	Adjust to Baseline Requirements for the Issuance and	10/10/2017		
	Management of Publicly-Trusted Certificates v. 1.5.4			
1.2	Adjust to Baseline Requirements for the Issuance and	20/02/2018		
	Management of Publicly-Trusted Certificates v. 1.5.5 & 1.5.6			
1.3	Adjust to Baseline Requirements for the Issuance and Management of	06/06/2018		
	Publicly-Trusted Certificates v. 1.5.7 & 1.5.8 and Adjust to EV			
	Guidelines, v. 1.6.8 and Creation of SubCA: Certisign CA			
1.4	✓ Adjust to Baseline Requirements for the Issuance and Management	12/18/2018		
	of Publicly-Trusted Certificates v. 1.5.9 till 1.6.1			
	 Adjust to Mozilla Requirements 			
1.5	✓ Adjust to Baseline Requirements for the Issuance and Management	02/06/2019		
	of Publicly-Trusted Certificates v. 1.6.2 till 1.6.3			
	✓ Adjust to Mozilla Requirements			

Table 1 - Revision

1.3 PKI Participants

As described at CERTISIGN TRUST NETWORK CP.

1.4 Certificate Usage

CERTISIGN ROOT CERTIFICATE AUTHORITY issues certificate for others Certificate Authorities of CERTISIGN TRUST NETWORK .

1.5 Policy Administration

1.5.1 Organization Administering the Document

CERTISIGN Certificadora Digital S.A. Rua Bela Cintra, 904 – 11. Andar – São Paulo Brasil

1.5.2 Contact Person

Normas e Compliance

CERTISIGN Certificadora Digital S.A.

Rua Bela Cintra, 904 – 11. Andar – São Paulo

Brasil

(55 11 4501-2417)

normas@certisign.com.br

1.5.3 Person Determining CP Suitability for the Policy

CERTISIGN TRUST NETWORK Policy Management Department (PMD), named as "Normas e Compliance" determines the suitability and applicability of this CPS.



1.5.4 CPS Approval Procedure

Approval of this CPS and subsequent amendments SHALL be made by the PMD. Amendments SHALL either be in the form of a document containing an amended form of the CPS or an update notice. Amended versions or updates SHALL be linked to the Practices Updates and Notices section of the CERTISIGN Repository located at: http://ctn.certisign.com.br/root/certisign-root-certification-authority.htm.

Updates supersede any designated or conflicting provisions of the referenced version of this CPS.

1.6 Definitions and Acronyms

1.6.1 Definitons

See Appendix A for a table of definitions.

1.6.2 Acronyms

See Appendix A for a table of acronyms.

1.6.3. References

See Appendix B for a list of References.

1.6.4. Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in these Requirements SHALL be interpreted in accordance with RFC 2119.

2. Publication and Repository Responsibilities

2.1 Repositories

CERTISIGN is responsible for maintaining a publicly accessible online repository, as well as revocation information concerning Certificates it issues.

2.2 Publication of Certificate Information

CERTISIGN maintains a web-based repository that permits Relying Parties to make online inquiries regarding revocation and other Certificate status information. Any exception to this SHALL be approved by the PMD on a case by case basis and MUST be documented in the appropriate CP. CERTISIGN and Affiliates provide Relying Parties with information on how to find the appropriate repository to check Certificate status and, if OCSP (Online Certificate Status Protocol) is available, how to find the right OCSP responder.

CERTISIGN publishs the Certificates it issues on behalf of its own CAs, and the CAs in their Sub-domain. Upon revocation of an end-user Subscriber's Certificate, CERTISIGN publishs notice of such revocation in the repository. In addition, CERTISIGN issues Certificate Revocation Lists (CRLs) and, if available, provide OCSP services (Online Certificate Status Protocol) for its own CAs and the CAs within their respective Sub-domains.

CERTISIGN will at all times publish a current version of the following documents in its repositories:

- This CERTISIGN ROOT CERTIFICATION AUTHORITY CPS,
- CERTISIGN TRUST NETWORK CP and CPS,
- Subscriber Agreements,
- Relying Party Agreements

CERTISIGN garantees that its repository is accessible online on a 24x7 basis and that its CP and/or CPS disclose its CERTISIGN TRUST NETWORK business practices as required by WebTrust for CAs and ETSI TS 102 042 and ETSI EN 319 411-1.



2.3 Time or Frequency of Publication

As described at CERTISIGN TRUST NETWORK CP.

2.4 Access Controls on Repositories

As described at CERTISIGN TRUST NETWORK CP.

3.1 Naming

Names appearing in Certificates issued under CERTISIGN ROOT CERTIFICATION AUTHORITY are authenticated.

3.1.1 Type of Names

CERTISIGN ROOT CERTIFICATION AUTHORITY CA Certificates contains:

- an X.501 Distinguished Name (DN) in the Subject name field and in the Issuer Name field,
- MAY contain multiple OU attributes,
- its DN is formed as below:

Attribute	Value
Country (C) =	BR
Organization (0) =	Certisign Certificadora Digital S.A.
Common Name (CN) =	Certificate Authority Name

Table 2- Distinguished Name Attributes in CA Certificates

3.1.1.1 CABF Naming Requirements

Not applicable.

3.1.2 Need for Names to be Meaningful

CERTISIGN ROOT CERTIFICATION AUTHORITY CA Certificates contains names with commonly understood semantics permitting the determination of the identity of the CA that is the Subject of the Certificate.

3.1.3 Anonymity or Pseudonymity of Subscribers

CERTISIGN ROOT CERTIFICATION AUTHORITY Subscribers are not permitted to use pseudonyms.

3.1.4 Rules for Interpreting Various Name Forms

No stipulation.

3.1.5 Uniqueness of Names

CERTISIGN ROOT CERTIFICATION AUTHORITY ensures that Subject Distinguished Name (DN) of the Subscriber is unique within the domain of a specific CA through automated components of the Subscriber enrollment process.

3.1.6 Recognition, Authentication, and Role of Trademarks

Certificate Applicants SHALL NOT use names in their Certificate Applications that infringe upon the Intellectual Property Rights of others. CERTISIGN SHALL be REQUIRED to determine whether a Certificate Applicant has Intellectual Property Rights in the name appearing in a Certificate Application or to arbitrate, mediate, or otherwise resolve any dispute concerning the ownership of any domain name, trade name, trademark, or service mark, and CERTISIGN SHALL be entitled, without liability to any Certificate Applicant, to reject or suspend any Certificate Application because of such dispute.

3.2 Initial Identity Validation

3.2.1 Method to Prove Possession of Private Key

The certificate applicant MUST demonstrate that it rightfully holds the private key corresponding to the public key to be listed in the Certificate.



The method to prove possession of a private key SHALL be PKCS #10, another cryptographically equivalent demonstration, or another CERTISIGN-approved method.

3.2.1.1. CABF Verification Requirements for EV

Not applicable.

3.2.2 Authentication of Organization and Domain Identity

Whenever a certificate contains an *organization name*, the identity of the organization and other enrollment information provided by Certificate Applicants (except for Non-verified Subscriber Information) is confirmed in accordance with the procedures set forth in this CPS and/or CERTISIGN's internal documents.

If the Applicant requests a Certificate that will contain Subject Identity Information comprised only of the *countryName* field, then CERTISIGN SHALL verify the country associated with the Subject using a verification process meeting the requirements of Section 3.2.2.3 and that is described in this this CP and/or CERTISIGN's internal documents. If the Applicant requests a Certificate that will contain the *countryName* field and other Subject Identity Information, CERTISIGN SHALL verify the identity of the Applicant, and the authenticity of the Applicant Representative's certificate request using a verification process meeting the requirements of this Section 3.2.2.1 and that is described in this CPS and/or CERTISIGN's internal documents..

CERTISIGN SHALL inspect any document relied upon under this Section for alteration or falsification.

3.2.2.1. Identity

CERTISIGN SHALL verify the identity and address of the Applicant using

- 1. documentation provided by the Applicant and
- 2. determine that the organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government agency or recognized authority that confirms the existence of the organization.

CERTISIGN ROOT CERTIFICATION AUTHORITY MAY use the same documentation or communication described above to verify both the Applicant's identity and address.

Alternatively, CERTISIGN ROOT CERTIFICATION AUTHORITY MAY verify the address of the Applicant (but not the identity of the Applicant) using a utility bill, bank statement, credit card statement, government-issued tax document, or other form of identification that CERTISIGN ROOT CERTIFICATION AUTHORITY determines to be reliable.

3.2.2.2. DBA/Tradename

If the Subject Identity Information is to include a DBA or tradename, CERTISIGN ROOT CERTIFICATION AUTHORITY SHALL verify the Applicant's right to use the DBA/tradename using at least one of the following: 1. Documentation provided by, or communication with, a government agency in the jurisdiction of the Applicant's legal creation, existence, or recognition;

2. A Reliable Data Source;

3. Communication with a government agency responsible for the management of such DBAs or tradenames;

4. An Attestation Letter accompanied by documentary support; or

5. A utility bill, bank statement, credit card statement, government-issued tax document, or other form of identification that CERTISIGN ROOT CERTIFICATION AUTHORITY determines to be reliable.

3.2.2.3. Verification of Country

CERTISIGN ROOT CERTIFICATION AUTHORITY SHALL verify the country associated with the Subject using one of the following:

(a) information provided by the Domain Name Registrar; or

(b) a method identified in Section 3.2.2.1.



3.2.2.4. Validation of Domain Authorization or Control

Not applicable.

3.2.2.5. Authentication for an IP Address

Not applicable.

3.2.2.6. Wildcard Domain Validation

Not applicable.

3.2.2.7. Data Source Accuracy

Prior to using any data source as a Reliable Data Source, CERTISIGN ROOT CERTIFICATION AUTHORITY SHALL evaluate the source for its reliability, accuracy, and resistance to alteration or falsification. CERTISIGN ROOT CERTIFICATION AUTHORITY SHOULD consider the following during its evaluation:

- 1. The age of the information provided,
- 2. The frequency of updates to the information source,
- 3. The data provider and purpose of the data collection,
- 4. The public accessibility of the data availability, and

5. The relative difficulty in falsifying or altering the data.

Databases maintained by CERTISIGN ROOT CERTIFICATION AUTHORITY, its owner, or its affiliated companies do not qualify as a Reliable Data Source if the primary purpose of the database is to collect information for the purpose of fulfilling the validation requirements under this Section 3.2.

3.2.2.8. CAA Records

Not applicable.

3.2.2.9 CABF Verification Requirements for Organization Applicants

Not applicable.

3.2.3 Authentication of Individual Identity

Not applicable.

3.2.4 Non-Verified Subscriber information

Non-verified subscriber information includes:

- Organization Unit (OU) with certain exceptions¹
- Any other information designated as non-verified in CERTISIGN TRUST NETWORK CP.

3.2.5 Validation of Authority

If the Applicant for a Certificate containing Subject Identity Information is an organization, CERTISIGN ROOT CERTIFICATION AUTHORITY SHALL use a Reliable Method of Communication to verify the authenticity of the Applicant Representative's certificate request.

CERTISIGN ROOT CERTIFICATION AUTHORITY MAY use the sources listed in section 3.2.2.1 to verify the Reliable Method of Communication.

Provided that CERTISIGN ROOT CERTIFICATION AUTHORITY uses a Reliable Method of Communication, CERTISIGN ROOT CERTIFICATION AUTHORITY MAY establish the authenticity of the certificate request directly with the Applicant Representative or with an authoritative source within the Applicant's organization, such as the Applicant's main business offices, corporate offices, human resource offices, information technology offices, or other department that CERTISIGN ROOT CERTIFICATION AUTHORITY deems appropriate.

¹ Domain-validated and organization-validated certificates MAY contain Organizational Unit values that are validated.



3.2.6 Criteria for Interoperation

CERTISIGN MAY provide interoperation services that allow any CA to be able to interoperate with CERTISIGN TRUST NETWORK by unilaterally certifying that CA. CAs enabled to interoperate in this way will comply with CERTISIGN TRUST NETWORK CP as supplemented by additional policies when required.

CERTISIGN SHALL only allow interoperation with CERTISIGN TRUST NETWORK of any CA in circumstances where CERTISIGN TRUST NETWORK SHALL at a minimum:

- Enters into a contractual agreement with CERTISIGN or an Affiliate
- Operates under a CPS that meets CERTISIGN TRUST NETWORK requirements for the type of certificates it will issue
- Passes a compliance assessment before being allowed to interoperate
- Passes an annual compliance assessment for ongoing eligibility to interoperate.

CERTISIGN TRUST NETWORK SHALL disclose all Cross Certificates that identify CERTISIGN TRUST NETWORK as the Subject, provided that CERTISIGN TRUST NETWORK arranged for or accepted the establishment of the trust relationship (i.e. the Cross Certificate at issue).

3.3 Identification and Authentication for Re-key Requests

Prior to the expiration of an existing Subscriber's Certificate, it is necessary for the Subscriber to obtain a new certificate to maintain continuity of Certificate usage. CERTISIGN ROOT CERTIFICATION AUTHORITY requires that the Subscriber generate a new key pair to replace the expiring key pair (technically defined as "rekey").

3.3.1 Identification and Authentication for Routine Re-key

Re-key procedures ensure that the person or organization seeking to rekey an end-user Subscriber Certificate is in fact the Subscriber of the previous Certificate.

CERTISIGN ROOT CERTIFICATION AUTHORITY requires the same proccess as described at 4.1. section.

3.3.2 Identification and Authentication for Re-key After Revocation

CERTISIGN ROOT CERTIFICATION AUTHORITY requires the same proccess as described at 4.1. section.

3.4 Identification and Authentication for Revocation Request

Revocation procedures ensure prior to any revocation of any Certificate that the revocation has in fact been requested by the Certificate's Subscriber, the entity that approved the Certificate Application, or the applicable CA.

Acceptable procedures for authenticating the revocation requests of a Subscriber include:

- Having the Subscriber for certain certificate types submit the Subscriber's Challenge Phrase (or the equivalent thereof), and revoking the Certificate automatically if it matches the Challenge Phrase (or the equivalent thereof) on record. (Note that this option MAY NOT be available to all customers.)
- Receiving a message from the Subscriber that requests revocation and contains a digital signature verifiable with reference to the Certificate to be revoked,
- Communication with the Subscriber providing reasonable assurances that the person or organization requesting revocation is, in fact the Subscriber. Such communication, depending on the circumstances, MAY include one or more of the following: telephone, facsimile, e-mail, postal mail, or courier service.

The requests to revoke a CA Certificate SHALL be authenticated by the requesting entity's Superior entity to ensure that the revocation has in fact been requested by the CA.



4. Certificate Life-Cycle Operational Requirements

4.1 Certificate Application

4.1.1 Who Can Submit a Certificate Application?

Below is a list of people who MAY submit certificate applications:

- Any individual who is the subject of the certificate,
- Any authorized representative of an Organization or entity,
- Any authorized representative of a CA.

4.2 Certificate Application Processing

CERTISIGN ROOT CERTIFICATION AUTHORITY SHALL perform identification and authentication of all required Subscriber information in terms of Section 3.2.

CERTISIGN ROOT CERTIFICATION AUTHORITY begins processing certificate applications within a reasonable time of receipt. There is no time stipulation to complete the processing of an application.

A certificate application remains active until rejected.

4.3 Certificate Issuance

4.3.1 CA Actions during Certificate Issuance

A Certificate is created and issued following the approval of a Certificate Application by CERTISIGN ROOT CERTIFICATION AUTHORITY. CERTISIGN ROOT CERTIFICATION AUTHORITY creates and issues a Certificate based on the information in a Certificate Application following approval of such Certificate Application.

Certificate issuance by CERTISIGN ROOT CERTIFICATION AUTHORITY SHALL require an individual authorized by CERTISIGN TRUST NETWORK (i.e. CERTISIGN TRUST NETWORK system operator, system officer, or PKI administrator) to deliberately issue a direct command in order for CERTISIGN ROOT CERTIFICATION AUTHORITY to perform a certificate signing operation.

4.3.2 Notifications to Subscriber by a CA of Issuance of Certificate

Not applicable.

4.4 Certificate Acceptance

4.4.1 Conduct Constituting Certificate Acceptance

The following conduct constitutes certificate acceptance:

- Downloading a Certificate or installing a Certificate from a message attaching it constitutes the Subscriber's acceptance of the Certificate.
- Failure of the Subscriber to object to the certificate or its content constitutes certificate acceptance.

4.4.2 Publication of the Certificate by the CA

CERTISIGN ROOT CERTIFICATION AUTHORITY publishs the Certificates it issues in a publicly accessible repository.

4.4.3 Notification of Certificate Issuance by a CA to Other Entities

Not applicable.



4.5 Key Pair and Certificate Usage

4.5.1 Subscriber Private Key and Certificate Usage

Use of the Private Key corresponding to the public key in the certificate SHALL only be permitted once the Subscriber has agreed to the Subscriber Agreement and accepted the certificate. The certificate SHALL be used lawfully in accordance with CERTISIGN's Subscriber Agreement the terms of this CPS. Certificate use MUST be consistent with the KeyUsage field extensions included in the certificate.

Subscribers SHALL protect their private keys from unauthorized use and SHALL discontinue use of the private key following expiration or revocation of the certificate. Parties other than the Subscriber SHALL NOT archive the Subscriber Private Key except as set forth in section 4.12.

4.5.2 Relying Party Public Key and Certificate Usage

Relying parties SHALL assent to the terms of the applicable Relying Party Agreement as a condition of relying on the certificate.

Reliance on a certificate MUST be reasonable under the circumstances. If the circumstances indicate a need for additional assurances, the Relying Party MUST obtain such assurances for such reliance to be deemed reasonable.

Before any act of reliance, Relying Parties SHALL independently assess:

- the appropriateness of the use of a Certificate for any given purpose and determine that the Certificate will, in fact, be used for an appropriate purpose that is not prohibited or otherwise restricted by this CPS. CERTISIGN TRUST NETWORK are not responsible for assessing the appropriateness of the use of a Certificate.
- that the certificate is being used in accordance with the KeyUsage field extensions included in the certificate.
- the status of the certificate and all the CAs in the chain that issued the certificate. If any of the Certificates in the Certificate Chain have been revoked, the Relying Party is solely responsible to investigate whether reliance on a digital signature performed by an end-user Subscriber Certificate prior to revocation of a Certificate in the Certificate chain is reasonable. Any such reliance is made solely at the risk of the Relying party.

Assuming that the use of the Certificate is appropriate, Relying Parties SHALL utilize the appropriate software and/or hardware to perform digital signature verification or other cryptographic operations they wish to perform, as a condition of relying on Certificates in connection with each such operation. Such operations include identifying a Certificate Chain and verifying the digital signatures on all Certificates in the Certificate Chain.

4.6 Certificate Renewal

Certificate renewal is the issuance of a new certificate to the subscriber without changing the public key or any other information in the certificate.

CERTISIGN ROOT CERTIFICATION AUTHORITY doesn't allow certificate renewal.

4.7 Certificate Re-Key

Certificate rekey is the application for the issuance of a new certificate that certifies the new public key.

CERTISIGN ROOT CERTIFICATION AUTHORITY requests the Applicant to submit a new certificate application to issue a new certificate.

4.8 Certificate Modification

Certificate modification refers to the application for the issuance of a new certificate due to changes in the information in an existing certificate (other than the subscriber's public key).



Certificate modification is considered a Certificate Application in terms of Section 4.1.

4.9 Certificate Revocation and Suspension

4.9.1 Circumstances for Revocation

The Issuing CA SHALL revoke a Subordinate CA Certificate within seven (7) days if one or more of the following occurs:

1. The Subordinate CA requests revocation in writing;

2. The Subordinate CA notifies the Issuing CA that the original certificate request was not authorized and does not retroactively grant authorization;

3. The Issuing CA obtains evidence that the Subordinate CA's Private Key corresponding to the Public Key in the Certificate suffered a Key Compromise or no longer complies with the requirements of Sections 6.1.5 and 6.1.6;

4. The Issuing CA obtains evidence that the Certificate was misused;

5. The Issuing CA is made aware that the Certificate was not issued in accordance with or that Subordinate CA has not complied with this document or the applicable Certificate Policy or Certification Practice Statement;

6. The Issuing CA determines that any of the information appearing in the Certificate is inaccurate or misleading;

7. The Issuing CA or Subordinate CA ceases operations for any reason and has not made arrangements for another CA to provide revocation support for the Certificate;

8. The Issuing CA's or Subordinate CA's right to issue Certificates under these Requirements expires or is revoked or terminated, unless the Issuing CA has made arrangements to continue maintaining the CRL/OCSP Repository; or

9. Revocation is required by the Issuing CA's Certificate Policy and/or Certification Practice Statement.

4.9.1.1. Reasons for Revoking a Subscriber Certificate

Not applicable.

4.9.2 Who Can Request Revocation

Only CERTISIGN is entitled to request or initiate the revocation of the Certificates issued to its own CAs.

4.9.3 Procedure for Revocation Request

The requests from CAs to revoke a CA Certificate shall be authenticated by their Superior Entities to ensure that the revocation has in fact been requested by the CA.

4.9.3.1 Procedure for Requesting the Revocation of an End-User Subscriber Certificate

Not applicable.

4.9.4 Revocation Request Grace Period

Revocation requests SHALL be submitted as promptly as possible within a commercially reasonable time.

4.9.5 Time within Which CA Must Process the Revocation Request

Within 24 hours after receiving a Certificate Problem Report, CERTISIGN ROOT CERTIFICATION AUTHORITY SHALL investigate the facts and circumstances related to a Certificate Problem Report and provide a preliminary report on its findings to both the Subscriber and the entity who filed the Certificate Problem Report.

After reviewing the facts and circumstances, CERTISIGN ROOT CERTIFICATION AUTHORITY SHALL work with the Subscriber and any entity reporting the Certificate Problem Report or other revocation-related notice to establish whether or not the certificate will be revoked, and if so, a date which CERTISIGN ROOT CERTIFICATION AUTHORITY will revoke the certificate. The period from receipt of the Certificate Problem Report or revocation-related notice to published revocation MUST NOT exceed the time frame set forth in Section 4.9.1.1. The date selected by CERTISIGN ROOT CERTIFICATION AUTHORITY SHOULD consider the following criteria:



- 1. The nature of the alleged problem (scope, context, severity, magnitude, risk of harm);
- 2. The consequences of revocation (direct and collateral impacts to Subscribers and Relying Parties);
- 3. The number of Certificate Problem Reports received about a particular Certificate or Subscriber;

4. The entity making the complaint (for example, a complaint from a law enforcement official that a Web site is engaged in illegal activities should carry more weight than a complaint from a consumer alleging that she didn't receive the goods she ordered); and 5. Relevant legislation.

4.9.6 Revocation Checking Requirements for Relying Parties

Relying Parties SHALL check the status of Certificates on which they wish to rely. Relying Parties MAY check Certificate status is by consulting OCSP method or the most recent CRL from CERTISIGN ROOT CERTIFICATION AUTHORITY.

4.9.7 CRL Issuance Frequency

CERTISIGN ROOT CERTIFICATION AUTHORITY CRL SHALL be issued at least annually, but also within 24 hours whenever a CA Certificate is revoked.

4.9.8 Maximum Latency for CRLs

CRLs are posted to the CERTISIGN Repository within a commercially reasonable time after generation. This is generally done automatically within seconds of generation.

4.9.9 On-Line Revocation/Status Checking Availability

Not applicable.

4.9.10 On-Line Revocation Checking Requirements

Not applicable.

4.9.11 Other Forms of Revocation Advertisements Available

Not applicable.

4.9.12 Special Requirements Regarding Key Compromise

CERTISIGN TRUST NETWORK Participants SHALL be notified of an actual or suspected CA private key Compromise using commercially reasonable efforts. CERTISIGN ROOT CERTIFICATION AUTHORITY shall use commercially reasonable efforts to notify potential Relying Parties if they discover, or have reason to believe, that there has been a Compromise of the private key of one of their own CAs or one of the CAs within their sub-domain.

4.9.13 Circumstances for Suspension

Not applicable.

4.9.14 Who Can Request Suspension

Not applicable.

4.9.15 Procedure for Suspension Request

Not applicable.

4.9.16 Limits on Suspension Period

Not applicable.

4.10 Certificate Status Services

4.10.1 Operational Characteristics

The status of public certificates is available via CRL through CERTISIGN ROOT CERTIFICATION AUTHORITY (at a URL specified in AC's CPS).



Revocation entries on a CRL MUST NOT be removed until "Expiry Date" of the revoked Certificate.

4.10.2 Service Availability

CERTISIGN ROOT CERTIFICATION AUTHORITY operates and maintains its CRL capability with resources sufficient to provide a response time of ten seconds or less under normal operating conditions.

CERTISIGN ROOT CERTIFICATION AUTHORITY maintains an online 24x7 Repository that application software can use to automatically check the current status of all unexpired Certificates issued by it.

CERTISIGN ROOT CERTIFICATION AUTHORITY maintains a continuous 24x7 ability to respond internally to a high-priority Certificate Problem Report, and where appropriate, forward such a complaint to law enforcement authorities, and/or revoke a Certificate that is the subject of such a complaint.

4.10.3 Optional Features

Not applicable.

4.11 End of Subscription

A subscriber MAY end a subscription for a CERTISIGN ROOT CERTIFICATION AUTHORITY certificate by:

- Allowing his/her/its certificate to expire without renewing or re-keying that certificate
- Revoking of his/her/its certificate before certificate expiration without replacing the certificate.

4.12 Key Escrow and Recovery

No CERTISIGN TRUST NETWORK participant MAY escrow CA, RA or end-user Subscriber private keys.

5. Facility, Management, and Operational Controls

5.1 Physical Controls

CERTISIGN TRUST NETWORK CP has documented detailed procedural control for CAs and RAs to adhere to.

5.2 Procedural Controls

CERTISIGN TRUST NETWORK CP has documented detailed procedural control for CAs and RAs to adhere to.

5.3 Personnel Controls

CERTISIGN TRUST NETWORK CP has documented detailed personnel control and security policies for CAs and RAs to adhere to.

5.4 Audit Logging Procedures

As described at CERTISIGN TRUST NETWORK CP.

5.5 Records Archival

As described at CERTISIGN TRUST NETWORK CP.

5.6 Key Changeover

As described at CERTISIGN TRUST NETWORK CP.

5.7 Compromise and Disaster Recovery

As described at CERTISIGN TRUST NETWORK CP.

5.8 CA or RA Termination



5.9 Data Security

As described at CERTISIGN TRUST NETWORK CP.

6. Technical Security Controls

6.1 Key Pair Generation and Installation

6.1.1 Key Pair Generation

Key pair generation SHALL be performed using Trustworthy Systems and processes that provide the required cryptographic strength of the generated keys and prevent the loss, disclosure, modification, or unauthorized use of private keys. This requirement applies to end-user Subscribers, Enterprise Customers using Certigate, CAs pregenerating key pairs on end-user Subscriber hardware tokens.

CA key pair generation is performed by multiple pre-selected, trained and trusted individuals using Trustworthy Systems and processes that provide for the security and REQUIRED cryptographic strength for the generated keys.

For CERTISIGN ROOT CERTIFICATION AUTHORITY and Issuing Root CAs, the cryptographic modules used for key generation meet the requirements of FIPS 140-1 level 3 or other similar standard used in Brazil.

All CA key pairs are generated in pre-planned Key Generation Ceremonies in accordance with CERTISIGN internal requirements. The activities performed in each key generation ceremony are recorded, dated and signed by all individuals involved. These records are kept for audit and tracking purposes for a length of time deemed appropriate by CERTISIGN Management.

CERTISIGN TRUST NETWORK maintains effective controls to provide reasonable assurance that the Private Key was generated and protected in conformance with the procedures described in its CP and/or CPS and its Key Generation Script.

6.1.2 Private Key Delivery to Subscriber

Not applicable.

6.1.3 Public Key Delivery to Certificate Issuer

When a public key is transferred to the issuing CA to be certified, it SHALL be delivered through a mechanism ensuring that the public key has not been altered during transit and that the Certificate Applicant possesses the private key corresponding to the transferred public key. The acceptable mechanism within CERTISIGN TRUST NETWORK for public key delivery is a PKCS#10 Certificate signing request package or an equivalent method ensuring that:

- The public key has not been altered during transit; and
- The Certificate Applicant possesses the private key corresponding to the transferred public key.

CERTISIGN TRUST NETWORK performing Key Generation Ceremonies transfer the public key from the cryptographic module where it was created to the cryptographic module of the superior CA (same cryptographic module if a CCA) by wrapping it in a PKCS#10 Certificate signing request.

6.1.4 CA Public Key Delivery to Relying Parties

CERTISIGN provides the full certificate chain (including the issuing CA and any CAs in the chain) to the end-user Subscriber upon Certificate issuance. CERTISIGN TRUST NETWORK CA Certificates MAY also be downloaded from http://ctn.certification-authority.htm.

CERTISIGN make reasonable effort to the public keys of the CERTISIGN TRUST NETWORK be included in Root Certificates that are already embedded within many popular software applications, making special root distribution mechanisms unnecessary. Also, in many instances, a Relying Party using the S/MIME protocol will



automatically receive, in addition to the Subscriber's Certificate, the Certificates (and therefore the public keys) of all CAs subordinate to CERTISIGN TRUST NETWORK.

6.1.5 Key Sizes

Key pairs SHALL be of sufficient length to prevent others from determining the key pair's private key using cryptanalysis during the period of expected utilization of such key pairs.

CERTISIGN TRUST NETWORK Standard is:

- key sizes for end-users: 2048 bit RSA
- digital signature hash algorithm: SHA-2

6.1.5.1 CABF Requirements for Key Sizes

This information aplies to Root CA Certificates , Subordinate CA Certificates and Subscriber Certificates

Digest algorithm	SHA-256, SHA-384 or SHA-512
Minimum RSA modulus size (bits)	2048
ECC curve	NIST P-256, P-384, or P-521
Minimum DSA modulus	L= 2048, N= 224
and divisor size (bits) *	or
	L= 2048, N= 256

* L and N (the bit lengths of modulus p and divisor q, respectively) are described in the Digital Signature Standard, FIPS 186-4 (<u>http://nvlpubs.nist.gov/nistpubs/FIPS/NIST.FIPS.186-4.pdf</u>).

6.1.6 Public Key Parameters Generation and Quality Checking

CERTISIGN ROOT CERTIFICATION AUTHORITY Applicants SHALL generate the required Key Parameters in accordance a PMD-approved equivalent standard.

The same standards SHALL be used to check the quality of the generated Key Parameters.

RSA: CERTISIGN ROOT CERTIFICATION AUTHORITY SHALL confirm that the value of the public exponent is an odd number equal to 3 or more. Additionally, the public exponent SHOULD be in the range between 2₁₆+1 and 2₂₅₆-1. The modulus SHOULD also have the following characteristics: an odd number, not the power of a prime, and have no factors smaller than 752. [Source: Section 5.3.3, NIST SP 800-89].

DSA: Although FIPS 800-57 says that domain parameters MAY be made available at some accessible site, compliant DSA certificates MUST include all domain parameters. This is to insure maximum interoperability among relying party software. CERTISIGN ROOT CERTIFICATION AUTHORITY MUST confirm that the value of the public key has the unique correct representation and range in the field, and that the key has the correct order in the subgroup. [Source: Section 5.3.1, NIST SP 800-89].

ECC: CERTISIGN ROOT CERTIFICATION AUTHORITY SHOULD confirm the validity of all keys using either the ECC Full Public Key Validation Routine or the ECC Partial Public Key Validation Routine. [Source: Sections 5.6.2.3.2 and 5.6.2.3.3, respectively, of NIST SP 56A: Revision 2].

6.1.7 Key Usage Purposes (as per X.509 v3 Key Usage Field)

Private Keys corresponding to CERTISIGN ROOT CERTIFICATION AUTHORITY MUST NOT be used to sign Certificates except in the following cases:

1. Self-signed Certificates to represent the Root CA itself;

2. Certificates for Subordinate CAs and Cross Certificates;

3. Certificates for infrastructure purposes (administrative role certificates, internal CA operational device certificates); and

4. Certificates for OCSP Response verification.

6.2 Private Key Protection and Cryptographic Module Engineering Controls

CERTISIGN has implemented a combination of physical, logical, and procedural controls to ensure the security of CERTISIGN and Enterprise Customer CA private keys. Protection of CERTISIGN ROOT CERTIFICATION



AUTHORITY Private Key outside the validated system or device specified above MUST consist of physical security, encryption, or a combination of both, implemented in a manner that prevents disclosure of CERTISIGN ROOT CERTIFICATION AUTHORITY Private Key. CERTISIGN ROOT CERTIFICATION AUTHORITY encrypts its Private Key with an algorithm and key-length that, according to the state of the art, are capable of withstanding cryptanalytic attacks for the residual life of the encrypted key or key part.

Subscribers are required by contract to take necessary precautions to prevent the loss, disclosure, modification, or unauthorized use of private keys.

6.2.1 Cryptographic Module Standards and Controls

CERTISIGN ROOT CERTIFICATION AUTHORITY private keys SHALL be protected using a Trustworthy System and private key holders SHALL take necessary precautions to prevent the loss, disclosure, modification, or unauthorized use of such Private Keys in accordance with this CPS.

CERTISIGN ROOT CERTIFICATION AUTHORITY performs all CA cryptographic operations on cryptographic modules rated at a minimum of FIPS 140-1 level 3 or other similar standard used in Brazil.

6.2.2 Private Key (m out of n) Multi-Person Control

CERTISIGN has implemented technical and procedural mechanisms that require the participation of multiple trusted individuals to perform sensitive CA cryptographic operations. CERTISIGN uses "Secret Sharing" to split the activation data needed to make use of a CA private key into separate parts called "Secret Shares" which are held by trained and trusted individuals called "Shareholders." A threshold number of Secret Shares (m) out of the total number of Secret Shares created and distributed for a particular hardware cryptographic module (n) is REQUIRED to activate a CA private key stored on the module.

The threshold number of shares needed to sign a CA certificate is three (3). It SHOULD be noted that the number of shares distributed for disaster recovery tokens MAY be less than the number distributed for operational tokens, while the threshold number of REQUIRED shares remains the same. Secret Shares are protected in accordance with this CPS.

6.2.3 Private Key Escrow

CERTISIGN ROOT CERTIFICATION AUTHORITY private keys are not escrowed.

6.2.4 Private Key Backup

CERTISIGN creates backup copies of CERTISIGN ROOT CERTIFICATION AUTHORITY private keys for routine recovery and disaster recovery purposes. Such keys are stored in encrypted form within hardware cryptographic modules and associated key storage devices. Cryptographic modules used for CERTISIGN ROOT CERTIFICATION AUTHORITY private key storage meet the requirements of this CPS. CERTISIGN ROOT CERTIFICATION AUTHORITY private keys are copied to backup hardware cryptographic modules in accordance with this CPS.

Modules containing onsite backup copies of CERTISIGN ROOT CERTIFICATION AUTHORITY private keys are subject to the requirements of this CPS. Modules containing disaster recovery copies of CERTISIGN ROOT CERTIFICATION AUTHORITY private keys are subject to the requirements of this CPS.

Private keys that are backed up are to be protected from unauthorized modification or disclosure through physical or cryptographic means. Back ups are protected with a level of physical and cryptographic protection equal to or exceeding that for cryptographic modules within CERTISIGN site, such as at a disaster recovery site or at another secure off-site facility, such as a bank safe.

6.2.5 Private Key Archival

Upon expiration of CERTISIGN ROOT CERTIFICATION AUTHORITY Certificate, the key pair associated with the certificate will be securely retained for a period of at least 5 years using hardware cryptographic modules that meet the requirements of this CPS. CERTISIGN ROOT CERTIFICATION AUTHORITY key pairs SHALL NOT be used



for any signing events after the expiration date of the corresponding CERTISIGN ROOT CERTIFICATION AUTHORITY Certificate.

Parties other than the Subordinate CA SHALL NOT archive the Subordinate CA Private Keys without authorization by the Subordinate CA.

CERTISIGN does not archive copies of Subscriber private keys.

6.2.6 Private Key Transfer Into or From a Cryptographic Module

CERTISIGN generates CA key pairs on the hardware cryptographic modules in which the keys will be used. In addition, CERTISIGN makes copies of such CA key pairs for routine recovery and disaster recovery purposes. Where CA key pairs are backed up to another hardware cryptographic module, such key pairs are transported between modules in encrypted form.

If the Issuing CA generated the Private Key on behalf of the Subordinate CA, then the Issuing CA SHALL encrypt the Private Key for transport to the Subordinate CA. If the Issuing CA becomes aware that a Subordinate CA's Private Key has been communicated to an unauthorized person or an organization not affiliated with the Subordinate CA, then the Issuing CA SHALL revoke all certificates that include the Public Key corresponding to the communicated Private Key.

6.2.7 Private Key Storage on Cryptographic Module

Not applicable.

6.2.8 Method of Activating Private Key

CERTISIGN ROOT CERTIFICATION AUTHORITY protects the activation data for their private keys against loss, theft, modification, unauthorized disclosure, or unauthorized use.

When deactivated, private keys SHALL be kept in encrypted form only.

6.2.9 Method of Deactivating Private Key

CERTISIGN ROOT CERTIFICATION AUTHORITY private keys are deactivated upon removal from the token reader.

When CERTISIGN ROOT CERTIFICATION AUTHORITY is taken offline CERTISIGN ROOT CERTIFICATION AUTHORITY's personnel SHALL remove the token containing such private key from the reader in order to deactivate it.

6.2.10 Method of Destroying Private Key

Where required, all private keys MAY be destroyed in a manner that reasonably ensures that there are no residuals remains of the key that could lead to the reconstruction of the key.

CERTISIGN utilizes the zeroization function of its hardware cryptographic modules and other appropriate means to ensure the complete destruction of CA private keys. When performed, CA key destruction activities are logged.

6.2.11 Cryptographic Module Rating

See Section 6.2.1

6.3 Other Aspects of Key Pair Management

6.3.1 Public Key Archival

CERTISIGN ROOT CERTIFICATION AUTHORITY SHALL archive their own public keys, as well as the public keys of all CAs within their Sub-domains, in accordance Section 5.5.

CERTISIGN ROOT CERTIFICATION AUTHORITY Certificates are backed up and archived as part of CERTISIGN 's routine backup procedures.



6.3.2 Certificate Operational Periods and Key Pair Usage Periods

The Operational Period for Certificates SHALL be set according to the time limits set forth in Table 1 below.

. The Operational Period of a Certificate ends upon its expiration or revocation. CERTISIGN ROOT CERTIFICATION AUTHORITY SHALL NOT issue Certificates if their Operational Periods would extend beyond the usage period of CERTISIGN ROOT CERTIFICATION AUTHORITY key pair. Therefore, CERTISIGN ROOT CERTIFICATION AUTHORITY key pair usage period is necessarily shorter than the operational period of its Certificate. Specifically, the usage period is the Operational Period of the CA Certificate minus the Operational Period of the Certificates that the CA issues. Upon the end of the usage period for a CA key pair, CA SHALL thereafter cease all use of the key pair, except to the extent a CA needs to sign revocation information until the end of the Operational Period of the last Certificate it has issued.

Certificate Issued By	Validity Period
Root CA self-signed (2048 bit RSA)	Up to 50 years
Root CA self-signed (256 bit ECC)	Up to 30 years
Root CA self-signed (384 bit ECC)	Up to 30 years
Root CA to Offline intermediate CA	Generally 10 years but up to 15 years after renewal
Root CA to online CA	Generally 5 years but up to 10 years after renewal
Offline intermediate CA to online CA	Generally 5 years but up to 10 years after renewal
Online CA to End-user Individual Subscriber	Normally up to 3 years, but under the conditions described below, up to 6 years under the conditions described below with no option to renew or re-key. After 6 years new enrollment is REQUIRED.
Online CA to End-Entity Organizational Subscriber	Normally up to 6 years30 under the conditions described below with no option to renew or re-key. After 6 years new enrollment is REQUIRED.
Online CA to SSL Certificates Subscriber	issued after 1 July 2016 but prior to 1 March 2018 MUST have a Validity Period no greater than 39 months. issued after 1 March 2018 MUST have a Validity Period no greater than 825 days.
EV Certificate	Generally 12 months. The maximum validity period SHALL NOT exceed 825 days.
Subscriber Certificates issued under CABF Requirements	issued after 1 July 2016 but prior to 1 March 2018 MUST have a Validity Period no greater than 39 months. issued after 1 March 2018 MUST have a Validity Period no greater than 825 days.
EV Code Signing Certificate	The validity period for an EV Code Signing Certificate: . issued to a Subscriber MUST NOT exceed 39 months. . issued to a Signing Authority OR a Timestamp Authority that fully complies with CABF Guidelines MUST NOT exceed 135 months.

Table 1 – Certificate Operational Periods

Except as noted in this section, CERTISIGN ROOT CERTIFICATION AUTHORITY Applicants SHALL cease all use of their key pairs after their usage periods have expired.



Any exception to this procedure requires approval from the PMD and MUST be documented in the relevant CPS.

6.4 Activation Data

6.4.1 Activation Data Generation and Installation

CERTISIGN TRUST NETWORK Participants generating and installing activation data for their private keys SHALL use methods that protect the activation data to the extent necessary to prevent the loss, theft, modification, unauthorized disclosure, or unauthorized use of such private keys.

To the extent passwords are used as activation data, Subscribers SHALL generate passwords that cannot easily be guessed or cracked by dictionary attacks.

Activation data (Secret Shares) used to protect tokens containing CERTISIGN TRUST NETWORK CA private keys is generated in accordance with the requirements of CPS Section 6.2.2. The creation and distribution of Secret Shares is logged.

CERTISIGN 's password selection guidelines require that passwords:

- be generated by the user;
- have at least fifteen characters;
- have at least one alphabetic and one numeric character;
- have at least one lower-case letter;
- not contain many occurrences of the same character;
- not be the same as the operator's profile name; and
- not contain a long substring of the user's profile name.

CERTISIGN strongly recommends that all Subscribers choose passwords that meet the same requirements.

CERTISIGN also recommends the use of two factor authentication mechanisms (e.g., token and passphrase, biometric and token, or biometric and passphrase) for private key activation.

6.4.2 Activation Data Protection

CERTISIGN TRUST NETWORK Participants SHALL protect the activation data for their private keys using methods that protect against the loss, theft, modification, unauthorized disclosure, or unauthorized use of such private keys.

CERTISIGN TRUST NETWORK utilizes Secret Sharing in accordance with its CPS, this CPS and the standards documented in CERTISIGN TRUST NETWORK's confidential security policies. CERTISIGN TRUST NETWORK provides the procedures and means to enable Shareholders to take the precautions necessary to prevent the loss, theft, modification, unauthorized disclosure, or unauthorized use of the Secret Shares thatthey possess. Shareholders SHALL NOT:

- Copy, disclose, or make the Secret Share available to a third party, or make any unauthorized use of it whatsoever; or
- disclose his, her, or any other person's status as a Shareholder to any third party.

The Secret Shares and any information disclosed to the Shareholder in connection with his or her duties as a Shareholder constitute Confidential/Private Information.

CERTISIGN Shareholders are REQUIRED to safeguard their Secret Shares and sign an agreement acknowledging their Shareholder responsibilities.

CERTISIGN strongly recommends that all Subscribers store their private keys in encrypted form and protect their private keys through the use of a hardwaretoken and/or strong passphrase. The use of two factor authentication mechanisms (e.g., token and passphrase, biometric and token, or biometric and passphrase) is encouraged.



6.4.3 Other Aspects of Activation Data

6.4.3.1 Activation Data Transmission

When activation data for their private keys are transmitted, CERTISIGN TRUST NETWORK Participants SHALL protect the transmission using methods that protect against the loss, theft, modification, unauthorized disclosure, or unauthorized use of such private keys.

6.4.3.2 Activation Data Destruction

Activation data for CA private keys SHALL be decommissioned using methods that protect against the loss, theft, modification, unauthorized disclosure, or unauthorized use of the private keys protected by such activation data. After the record retention periods in CPS Section 5.5.2 lapses, CERTISIGN TRUST NETWORK SHALL decommission activation data by overwriting and/or physical destruction.

6.5 Computer Security Controls

CA and RA functions take place on Trustworthy Systems in accordance with the standards documented in CERTISIGN TRUST NETWORK's confidential security policies.

6.5.1 Specific Computer Security Technical Requirements

CERTISIGN ensures that the systems maintaining CA software and data files are Trustworthy Systems secure from unauthorized access. In addition, CERTISIGN limits access to production servers to those individuals with a valid business reason for such access. General application users do not have accounts on production servers.

CERTISIGN 's production network is logically separated from other components. This separation prevents network access except through defined application processes. CERTISIGN uses firewalls to protect the production network from internal and external intrusion and limit the nature and source of network activities that MAY access production systems.

CERTISIGN requires the use of passwords that have a minimum character length and a combination of alphanumeric and special characters. CERTISIGN requires that passwords be changed on a periodic basis.

Direct access to CERTISIGN databases supporting CERTISIGN 's CA Operations is limited to Trusted Persons in CERTISIGN 's Production Operations group having a valid business reason for such access.

CERTISIGN enforces multi-factor authentication for all accounts capable of directly causing certificate issuance.

Gateway servers SHALL include the following functionality: access control to CA services, identification and authentication for launching of CA services, object re-use for CA random access memory, use of cryptography for session communication and database security, archival of CA and end-user Subscriber history and audit data, audit of security related events, self-test of security related CA services, and Trusted path for identification of PKI roles and associated identities.

RAs SHALL ensure that the systems maintaining RA software and data files are Trustworthy Systems secure from unauthorized access, which can be demonstrated by compliance with audit criteria applicable under CPS Section 5.4.1.

RAs SHALL logically separate access to these systems and this information from other components. This separation prevents access except through defined processes. RAs SHALL use firewalls to protect the network from internal and external intrusion and limit the nature and source of activities that MAY access such systems and information. RAs SHALL require the use of passwords with a minimum character length and a combination of alphanumeric and special characters, and SHALL require that passwords be changed on a periodic basis and as necessary. Direct access to the RA's database maintaining Subscriber information SHALL be limited to Trusted Persons in the RA's operations group having a valid business reason for such access.



6.5.2 Computer Security Rating

No stipulation.

6.6 Life Cycle Technical Controls

6.6.1 System Development Controls

Applications are developed and implemented by CERTISIGN in accordance with CERTISIGN systems development and change management standards. CERTISIGN also provides software to its Enterprise Customers for performing RA and certain CA functions. Such software is developed in accordance with CERTISIGN system development standards.

CERTISIGN developed software, when first loaded, provides a method to verify that the software on the system originated from CERTISIGN, has not been modified prior to installation, and is the version intended for use.

6.6.2 Security Management Controls

CERTISIGN has mechanisms and/or policies in place to control and monitor the configuration of its CA systems. CERTISIGN validates the integrity of its CA systems.

6.6.3 Life Cycle Security Controls

No stipulation.

6.7 Network Security Controls

CA and RA functions are performed using networks secured in accordance with the standards documented in CERTISIGN TRUST NETWORK's confidential security policies (in the case of CERTISIGN and Affiliates) to prevent unauthorized access, tampering, and denial-of-service attacks. Communications of sensitive information SHALL be protected using point-to-point encryption for confidentiality and digital signatures for non-repudiation and authentication.

6.8 Time-Stamping

Certificates, CRLs, and other revocation database entries SHALL contain time and date information.

7. Certificate, CRL, and OCSP Profiles

7.1 Certificate Profile

As described at CERTISIGN TRUST NETWORK CP.

7.1.1 Version Number(s)

As described at CERTISIGN TRUST NETWORK CP.

7.1.2 Certificate Extensions

As described at CERTISIGN TRUST NETWORK CP.

7.1.3 Algorithm Object Identifiers

As described at CERTISIGN TRUST NETWORK CP.

7.1.4 Name Forms

As described at CERTISIGN TRUST NETWORK CP.

7.1.5 Name Constraints



7.1.6 Certificate Policy Object Identifier

CERTISIGN ROOT CERTIFICATION AUTHORITY OID is defined as 1.3.6.1.4.1.30253.15.

7.1.7 Usage of Policy Constraints Extension

As described at CERTISIGN TRUST NETWORK CP.

7.1.8 Policy Qualifiers Syntax and Semantics

As described at CERTISIGN TRUST NETWORK CP.

7.1.9 Processing Semantics for the Critical Certificate Policies Extension As described at CERTISIGN TRUST NETWORK CP.

7.2 CRL Profile

As described at CERTISIGN TRUST NETWORK CP.

7.2.1 Version Number(s)

As described at CERTISIGN TRUST NETWORK CP.

7.2.2 CRL and CRL Entry Extensions

As described at CERTISIGN TRUST NETWORK CP.

7.3 OCSP Profile

As described at CERTISIGN TRUST NETWORK CP.

8. Compliance Audit and Other Assessments

As described at CERTISIGN TRUST NETWORK CP.

8.1 Frequency and Circumstances of Assessment

As described at CERTISIGN TRUST NETWORK CP.

8.2 Identity/Qualifications of Assessor

As described at CERTISIGN TRUST NETWORK CP.

8.3 Assessor's Relationship to Assessed Entity

As described at CERTISIGN TRUST NETWORK CP.

8.4 Topics Covered by Assessment

As described at CERTISIGN TRUST NETWORK CP.

Audit of CERTISIGN or an Affiliate :

As described at CERTISIGN TRUST NETWORK CP.

8.5 Actions Taken as a Result of Deficiency

As described at CERTISIGN TRUST NETWORK CP.

8.6 Communications of Results

As described at CERTISIGN TRUST NETWORK CP.

8.7. SELF-AUDITS



9. Other Business and Legal Matters

9.1 Fees

9.1.1 Certificate Issuance or Renewal Fees As described at CERTISIGN TRUST NETWORK CP.

9.1.2 Certificate Access Fees

As described at CERTISIGN TRUST NETWORK CP.

9.1.3 Revocation or Status Information Access Fees

As described at CERTISIGN TRUST NETWORK CP.

9.1.4 Fees for Other Services

As described at CERTISIGN TRUST NETWORK CP.

9.1.5 Refund Policy

As described at CERTISIGN TRUST NETWORK CP.

9.2 Financial Responsibility

9.2.1 Insurance Coverage

As described at CERTISIGN TRUST NETWORK CP.

9.2.2 Other Assets

As described at CERTISIGN TRUST NETWORK CP.

9.2.3 Extended Warranty Coverage

As described at CERTISIGN TRUST NETWORK CP.

9.3 Confidentiality of Business Information

9.3.1 Scope of Confidential Information

As described at CERTISIGN TRUST NETWORK CP.

9.3.2 Information Not Within the Scope of Confidential Information

As described at CERTISIGN TRUST NETWORK CP.

9.3.3 Responsibility to Protect Confidential Information

As described at CERTISIGN TRUST NETWORK CP.

9.4 Privacy of Personal Information

9.4.1 Privacy Plan As described at CERTISIGN TRUST NETWORK CP.

9.4.2 Information Treated as Private

As described at CERTISIGN TRUST NETWORK CP.

9.4.3 Information Not Deemed Private



9.4.4 Responsibility to Protect Private Information

As described at CERTISIGN TRUST NETWORK CP.

9.4.5 Notice and Consent to Use Private Information

As described at CERTISIGN TRUST NETWORK CP.

9.4.6 Disclosure Pursuant to Judicial or Administrative Process As described at CERTISIGN TRUST NETWORK CP.

9.4.7 Other Information Disclosure Circumstances

As described at CERTISIGN TRUST NETWORK CP.

9.5 Intellectual Property Rights

As described at CERTISIGN TRUST NETWORK CP.

9.5.1 Property Rights in Certificates and Revocation Information

As described at CERTISIGN TRUST NETWORK CP.

9.5.2 Property Rights in the CP

As described at CERTISIGN TRUST NETWORK CP.

9.5.3 Property Rights in Names

As described at CERTISIGN TRUST NETWORK CP.

9.5.4 Property Rights in Keys and Key Material

As described at CERTISIGN TRUST NETWORK CP.

9.6 Representations and Warranties

9.6.1 CA Representations and Warranties

As described at CERTISIGN TRUST NETWORK CP.

9.6.2 RA Representations and Warranties

As described at CERTISIGN TRUST NETWORK CP.

9.6.3 Subscriber Representations and Warranties

As described at CERTISIGN TRUST NETWORK CP.

9.6.4 Relying Party Representations and Warranties

As described at CERTISIGN TRUST NETWORK CP.

9.6.5 Representations and Warranties of Other Participants

As described at CERTISIGN TRUST NETWORK CP.

9.7 Disclaimers of Warranties

As described at CERTISIGN TRUST NETWORK CP.

9.8 Limitations of Liability

As described at CERTISIGN TRUST NETWORK CP.

9.8.1 Limitations of Liability for EV



9.9 Indemnities

9.9.1 Indemnification by Subscribers

As described at CERTISIGN TRUST NETWORK CP.

9.9.2 Indemnification by Relying Parties

As described at CERTISIGN TRUST NETWORK CP.

9.9.3 Indemnification of Application Software Suppliers As described at CERTISIGN TRUST NETWORK CP.

9.10 Term and Termination

9.10.1 Term

As described at CERTISIGN TRUST NETWORK CP.

9.10.2 Termination

As described at CERTISIGN TRUST NETWORK CP.

9.10.3 Effect of Termination and Survival

As described at CERTISIGN TRUST NETWORK CP.

9.11 Individual Notices and Communications with Participants

As described at CERTISIGN TRUST NETWORK CP.

9.12 Amendments

9.12.1 Procedure for Amendment

As described at CERTISIGN TRUST NETWORK CP.

9.12.2 Notification Mechanism and Period

As described at CERTISIGN TRUST NETWORK CP.

9.12.3 Circumstances under Which OID Must be Changed

As described at CERTISIGN TRUST NETWORK CP.

9.13 Dispute Resolution Provisions

9.13.1 Disputes among CERTISIGN, Affiliates, and Customers

As described at CERTISIGN TRUST NETWORK CP.

9.13.2 Disputes with End-User Subscribers or Relying Parties

As described at CERTISIGN TRUST NETWORK CP.

9.14 Governing Law

As described at CERTISIGN TRUST NETWORK CP.

9.15 Compliance with Applicable Law



9.16 Miscellaneous Provisions

9.16.1 Entire Agreement

As described at CERTISIGN TRUST NETWORK CP.

9.16.2 Assignment

As described at CERTISIGN TRUST NETWORK CP.

9.16.3 Severability

As described at CERTISIGN TRUST NETWORK CP.

9.16.4 Enforcement (Attorney's Fees and Waiver of Rights)

As described at CERTISIGN TRUST NETWORK CP.

9.16.5 Force Majeure

As described at CERTISIGN TRUST NETWORK CP.

9.17 Other Provisions



Appendix A: Table of Acronyms and Definitions

Term	Definition
AC Digital	A service offered to Managed PKI SSL Certisign Customers that provides a digitally signed
Notarization Service	assertion (a Digital Receipt) that a particular document or set of data existed at a particular point in time
AC Participant	An individual or organization that is one or more of the following within AC: CERTISIGN, an Affiliate, a Customer, a Reseller, a Subscriber, or a Relying Party
AC PKI	consists of systems that collaborate to provide and implement AC
AC Repository	CERTISIGN's database of Certificates and other relevant CERTISIGN SSL CERTIFICATION
	AUTHORITY information accessible on-line
AC Standards	The business, legal, and technical requirements for issuing, managing, revoking, renewing, and using Certificates within AC
Accounting	A certified public accountant, chartered accountant, or a person with an equivalent license
Practitioner	within the country of the Applicant's Jurisdiction of Incorporation or Registration or any
	jurisdiction where the Applicant maintains an office or physical facility; provided that an
	accounting standards body in the jurisdiction maintains full (not "suspended" or
	"associate") membership status with the International Federation of Accountants.
ACS	Authenticated Content Signing
Administrator	A Trusted Person within the organization of a CA or AR that performs validation and other
	CA or RA functions
Administrator	A Certificate issued to an Administrator that MAY only be used to perform CA or RA
Certificate	functions
Affiliate	A trusted third party(corporation, partnership, joint venture or other entity controlling,
	controlled by, or under common control with another entity, or an agency, department,
	political subdivision, or any entity operating under the direct control of a Government
	Entity) that has entered into an agreement with CERTISIGN to be a CA distribution and
	services channel within a specific territory
Affiliated Individual	A natural person that is
	(i) as an officer, director, employee, partner, contractor, intern, or other
	person within the Affiliate;
	(ii) as a member of a CERTISIGN registered community of interest, or
	(iii) as a person maintaining a relationship with the entity where the entity has business
	or other records providing appropriate assurances of the identity of such person
AICPA	American Institute of Certified Public Accountants
ANSI	The American National Standards Institute
Applicant	The natural person or Legal Entity that applies for (or seeks renewal of) a Certificate.
• •	Once the Certificate issues, the Applicant is referred to as the Subscriber. For Certificates
	issued to devices, the Applicant is the entity that controls or operates the device named in
	the Certificate, even if the device is sending the actual certificate request
Applicant	A natural person or human sponsor who is either the Applicant, employed by the
Representative	Applicant, or an authorized agent who has express authority to represent the Applicant:
	(i) who signs and submits, or approves a certificate request on behalf of the Applicant,
	and/or
	(ii) who signs and submits a Subscriber Agreement on behalf of the Applicant, and/or
	(iii) who acknowledges and agrees to the Certificate Terms of Use on behalf of the
	Applicant when the Applicant is an Affiliate of AC or is the CA.
Application	A supplier of Internet browser software or other relying-party application software that
Software Supplier	displays or uses Certificates and incorporates Root Certificates
Attestation Letter	A letter attesting that Subject Information is correct written by an accountant, lawyer,
	government official, or other reliable third party customarily relied upon for such
	information
Audit Period	In a period-of-time audit, the period between the first day (start) and the last day of
	operations (end) covered by the auditors in their engagement. (This is not the same as the
	period of time when the auditors are on-site at the CA.) The coverage rules and maximum
	period of time when the additors are on-site at the GA. The coverage rules and maximum
Audit Report	length of audit periods are defined in section 8.1
Audit Report	



Authorization	The Domain Name used to obtain authorization for certificate issuance for a given FQDN.
Domain Name	AC MAY use the FQDN returned from a DNS CNAME lookup as the FQDN for the purposes
D omain Manie	of domain validation. If the FQDN contains a wildcard character, then AC MUST remove all
	wildcard labels from the left most portion of requested FQDN. AC MAY prune zero or
	more labels from left to right until encountering a Base Domain Name and MAY use any
	one of the intermediate values for the purpose of domain validation.
Authorized Port	One of the following ports: 80 (http), 443 (http), 25 (smtp), 22 (ssh).
Automated	A procedure whereby Certificate Applications are approved automatically if enrollment
Administration	information
	matches information contained in a database
Automated	Software provided by CERTISIGN that performs Automated Administration
Administration	
Software Module	
Base Domain Name	The portion of an applied-for FQDN that is the first domain name node left of a
	registrycontrolled or public suffix plus the registry-controlled or public suffix (e.g.
	"example.co.uk" or "example.com"). For FQDNs where the right-most domain name node
	is a gTLD having ICANN Specification 13 in its registry agreement, the gTLD itself MAY be
	used as the Base Domain Name.
BIPM	International Bureau of Weights and Measures
BIS	(US Government) Bureau of Industry and Security
Business Entity	Any entity that is not a Private Organization, Government Entity, or Non-Commercial
	Entity as defined herein. Examples include, but are not limited to, general partnerships,
<u></u>	unincorporated associations, sole proprietorships, etc.
CA	Certification Authority
CAA	Certification Authority Authorization
ccTLD	Country Code Top-Level Domain
CEO	Chief Executive Officer
Certificate	An electronic document that uses a digital signature to bind a public key and an identity.
	At least, it states a name or identifies the CA, identifies the Subscriber, contains the Subscriber's public key, identifies the Certificate's Operational Period, contains a
	Certificate serial number, and is digitally signed by the CA.
Certificate Applicant	An individual or organization that requests the issuance of a Certificate by a CA
Certificate	A request from a Certificate Applicant (or authorized agent of the Certificate Applicant) to
Application	a CA for the issuance of a Certificate
Certificate Approver	A natural person who is either the Applicant, employed by the Applicant, or an authorized
doi tilleato rippi o toi	agente who has express authority to represent the Applicant to (i) act as a Certificate
	Requester and to authorize other employees or third parties to act as a Certificate
	Requester, and (ii) to approve EV Certificate Requests submitted by other Certificate
	Requesters.
Certificate Chain	An ordered list of Certificates containing an end-user Subscriber Certificate and CA
	Certificates, which terminates in a root Certificate
Certificate Data	Certificate requests and data related thereto (whether obtained from the Applicant or
	otherwise) in the CA's possession or control or to which CA has access
Certificate	Criteria that an entity MUST meet in order to satisfy a Compliance Audit
Management	
Control Objectives	
Certificate	Processes, practices, and procedures associated with the use of keys, software, and
Management	hardware, by which AC verifies Certificate Data, issues Certificates, maintains a
Process	Repository, and revokes Certificates
Certificate Policy	A set of rules that indicates the applicability of a named Certificate to a particular
(CP) Cortificato Problem	community and/or PKI implementation with common security requirements.
Certificate Problem	Complaint of suspected Key Compromise, Certificate misuse, or other types of fraud,
Report	compromise, misuse, or inappropriate conduct related to Certificates
Certificate	A natural person who is either the Applicant, employed by the Applicant, an authorized
Requester	agent who has express authority to represent the Applicant, or a third party (such as an ISP or bosting company) that completes and submits an EV Certificate Request on behalf
	ISP or hosting company) that completes and submits an EV Certificate Request on behalf
	of the Applicant.



COO Country CP CPA	Either a member of the United Nations OR a geographic region recognized as a Sovereign State by at least two UN member nations. Certificate Policy Chartered Professional Accountant
Country	State by at least two UN member nations.
	Chief Operating Officer
<u> </u>	Jurisdiction of Incorporation or Registration but in no case less than 10%.
	(3) vote that portion of voting shares required for "control" under the law of the entity's
	(2) control the election of a majority of the directors ; or
	(1) direct the management, personnel, finances, or plans of such entity;
	with") means possession, directly or indirectly, of the power to:
Control	"Control" (and its correlative meanings, "controlled by" and "under common control
	behalf of the Applicant to sign Subscriber Agreements.
	agent who has express authority to represent the Applicant, and who has authority on
Contract Signer	A natural person who is either the Applicant, employed by the Applicant, or an authorized
Confirming Person	A position within an Applicant's organization that confirms the particular fact at issue
Request	particular fact at issue.
Confirmation	An appropriate out-of-band communication requesting verification or confirmation of the
Information	
Confidential/Private	Information required to be kept confidential and private pursuant to CP Section 2.8.1
	unauthorized use, or other compromise of the security of such private key
	respect to private keys, a Compromise is a loss, theft, disclosure, modification,
	disclosure of, or loss of control over, sensitive information MAY have occurred. With
Compromise	A violation (or suspected violation) of a security policy, in which an unauthorized
	Standards that apply to it
Compliance Audit	A periodic audit that a AC or AR undergoes to determine its conformance with AC
CISO	Chief Information Security Officer
CIO	Chief Information Officer
CICA	Canadian Institute of Chartered Accountants
	revoke or renew the Subscriber's Certificate
	can use the Challenge Phrase to authenticate the Subscriber when the Subscriber seeks to
	When issued a Certificate, the Certificate Applicant becomes a Subscriber and a CA or RA
Challenge Phrase	A secret phrase chosen by a Certificate Applicant during enrollment for a Certificate.
CFO	Chief Financial Officer
AUTHORITY	and their respective Customers, Subscribers, and Relying Parties
CERTIFICATION	enables the worldwide deployment and use of Certificates by CERTISIGN and its Affiliates
CERTISIGN SSL	The Certificate-based Public Key Infrastructure governed by AC Certificate Policies, which
	operations at issue
	S.A. and/or any wholly owned CERTISIGN subsidiary responsible for the specific
CERTISIGN	Means, with respect to each pertinent portion of this CPS, CERTISIGN Certificadora Digital
	rejecting Certificate Applications and issuing, managing, and revoking Certificates.
Statement (CPS)	A statement of the practices that CERTISIGN or an Affiliate employs in approving or
Practice	Certificates are created, issued, managed, and used.
Certification	One of several documents forming the governance framework in which
	additional controls to reduce the risk of unintended certificate misissue"
	Publication of CAA Resource Records allows a public Certification Authority to implemen
Authorization (CAA)	the Certification Authorities (CAs) authorized to issue certificates for that domain.
Authority	Authorization (CAA) DNS Resource Record allows a DNS domain name holder to specify
Certification	From RFC 6844 (http:tools.ietf.org/html/rfc6844): "The Certification Authority
0	
Authority (CA)	management of Certificates. The term applies equally to both Roots CAs and Subordinate
Certification	An organization that is responsible for the creation, issuance, revocation and
Request (CSR)	
Certificate Signing	A message conveying a request to have a Certificate issued
	reasons for revocation
	scheduled CRL issue, the revoked Certificates' serial numbers, and the specific times and
(CRL)	The list generally indicates the CRL issuer's name, the date of issue, the date of the next
	that have been revoked prior to their expiration dates in accordance with CP Section 3.4.
Revocation List	



CPS	Certification Practice Statement
CRL	Certificate Revocation List
CRL Usage	An agreement setting forth the terms and conditions under which a CRL or the
Agreement	information in it can be used
Cross Certificate	A certificate that is used to establish a trust relationship between two Root CAs
CSO	Chief Security Officer
CSPRNG	A random number generator intended for use in cryptographic system.
Customer	An organization that is either a Managed PKI SSL Certisign Customer or Gateway
	Customer
DBA	Doing Business As
Delegated Third	A natural person or Legal Entity that is not the CA, and whose activities are not within the
Party	scope of the appropriate CA audits, but is authorized by the CA to assist in the Certificate
	Management Process by performing or fulfilling one or more of the CA requirements
	found herein.
Demand Deposit	A deposit account held at a bank or other financial institution, the funds deposited in
Account	which are payable on demand. The primary purpose of demand accounts is to facilitate
	cashless payments by means of check, bank draft, direct debit, electronic funds transfer,
	etc. Usage varies among countries, but a demand deposit account is commonly known as a
	share draft account, a current account, or a checking account.
DNS	Domain Name System
DNS CAA Email	The email address defined in section J.1.1.
Contact	
DNS TXT Record	The email address defined in section J.2.1.
Email Contact	,
Domain	Correspondence or other documentation provided by a Domain Name Registrant attesting
Authorization	to the authority of an Applicant to request a Certificate for a specific Domain Namespace
Domain	Documentation provided by, or a CA's documentation of a communication with, a Domain
Authorization	Name Registrar, the Domain Name Registrant, or the person or entity listed in WHOIS as
Document	the Domain Name Registrant (including any private, anonymous, or proxy registration
	service) attesting to the authority of an Applicant to request a Certificate for a specific
	Domain Namespace.
Domain Contact	The Domain Name Registrant, technical contact, or administrative contract (or the
	equivalent under a ccTLD) as listed in the WHOIS record of the Base Domain Name or in a
	DNS SOA record or as obtained through direct contact with the Domain Name Registrar
Domain Name	The label assigned to a node in the Domain Name System.
Domain Name	Sometimes referred to as the "owner" of a Domain Name, but more properly the person(s)
Registrant	or entity(ies) registered with a Domain Name Registrar as having the right to control how
0	a Domain Name is used, such as the natural person or Legal Entity that is listed as the
	"Registrant" by WHOIS or the Domain Name Registrar
Domain Name	A person or entity that registers Domain Names under the auspices of or by agreement
Registrar	with: (i) the Internet Corporation for Assigned Names and Numbers (ICANN), (ii) a
-0	national Domain Name authority/registry, or (iii) a Network Information Center
	(including their affiliates, contractors, delegates, successors, or assigns)
Domain Namespace	The set of all possible Domain Names that are subordinate to a single node in the
= - main raincopuee	Domain Name System.
Enterprise EV	An EV Certificate that an Enterprise RA authorizes the CA to issue at third and higher
Certificate	domain levels.
Enterprise EV RA	An RA that is authorized by the CA to authorize the CA to issue EV Certificates at third and
	higher domain levels
Enterprise RA	An employee or agent of an organization unaffiliated with AC who authorizes issuance of
Linei prise im	Certificates to that organization
Entry Date	The "Not After" date in a Certificate that defines the end of a Certificate's validity period
ENTry Date	Extended Validation
EV Authority	A source other than the Certificate Approver, through which verification occurs that the
	Certificate Approver is expressly authorized by the Applicant, as of the date of the EV
FW Count fine t	Certificate Request, to take the Request actions described in these Guidelines
EV Certificate	A digital certificate that contains information specified in the EV Guidelines and that has
	been validated in accordance with the Guidelines



EV Contificate	Demons to whom the CA and its Deet CA make an existed EV Cautificate Manageric-
EV Certificate Beneficiaries	Persons to whom the CA and its Root CA make specified EV Certificate Warranties
EV Certificate Reissuance	The process whereby an Applicant who has a valid unexpired and non-revoked EV Certificate makes an application, to the CA that issued the original certificate, for a newly issued EV Certificate for the same organizational name and Domain Name prior to the expiration of the Applicant's existing EV Certificate but with a 'valid to' date that matches that of the current EV Certificate
EV Certificate Renewal	The process whereby an Applicant who has a valid unexpired and non-revoked EV Certificate makes an application, to the CA that issued the original certificate, for a newly issued EV Certificate for the same organizational name and Domain Name prior to the expiration of the Applicant's existing EV Certificate but with a new 'valid to' date beyond the expiry of the current EV Certificate
EV Certificate Request	A request from an Applicant to the CA requesting that the CA issue an EV Certificate to the Applicant, which request is validly authorized by the Applicant and signed by the Applicant Representative.
EV Certificate Warranties	In conjunction with the CA issuing an EV Certificate, the CA and its Root CA, during the period when the EV Certificate is Valid, promise that the CA has followed the requirements of these Guidelines and the CA's EV Policies in issuing the EV Certificate and in verifying the accuracy of the information contained in the EV Certificate
EV Code Signing Certificate	A certificate that contains subject information specified in these Guidelines and that has been validated in accordance with these Guidelines
EV Code Signing Certificate Issuer	A CA providing an EV Code Signing Certificate to a Subscriber or a Signing Authority that provides an EV signature for a Subscriber.
EV Code Signing Object	An EV Code Signing Certificate issued by a CA or an EV Signature provided by a Signing Authority.
EV OID	An identifying number, in the form of an "object identifier," that is included in the <i>certificatePolicies</i> field of a certificate that: (i) indicates which CA policy statement relates to that certificate, and (ii) is either the CA/Browser Forum EV policy identifier or a policy identifier that, by pre-agreement with one or more Application Software Supplier, marks the certificate as being an EV Certificate.
EV Policies	Auditable EV Certificate practices, policies and procedures, such as a certification practice statement and certificate policy, that are developed, implemented, and enforced by the CA and its Root CA
EV Processes	The keys, software, processes, and procedures by which the CA verifies Certificate Data under CA/Browser Forum EV Guidelines, issues EV Certificates, maintains a Repository, and revokes EV Certificates
EV Signature	An encrypted electronic data file which is attached to or logically associated with other electronic data and which (i) identifies and is uniquely linked to the signatory of the electronic data, (ii) is created using means that the signatory can maintain under its sole control, and (iii) is linked in a way so as to make any subsequent changes that have been made to the electronic data detectable.
EV Subscriber	The Subject of the EV Code Signing Certificate. A Subscriber is the entity responsible for distributing the software but does not necessarily hold the copyright to the software
Exigent Audit/Investigation	An audit or investigation by CERTISIGN where CERTISIGN has reason to believe that an entity's failure to meet AC Standards, an incident or Compromise relating to the entity, or an actual or potential threat to the security of AC posed by the entity has occurred
Extended Validation	Validation Procedures defined by the Guidelines for Extended Validation Certificates published by a forum consisting of major certification authorities and browser vendors
Extended Validation Certificate	EV Certificate
FIPS	(US Government) Federal Information Processing Standard
FQDN	Fully-Qualified Domain Name
Fully-Qualified Domain Name	A Domain Name that includes the labels of all superior nodes in the Internet Domain Name System
Government Agency	. In the context of a Private Organization, the government agency is in the Jurisdiction of Incorporation under whose authority the legal existence of Private Organizations is established (e.g., the government agency that issued the Certificate of Incorporation) . In the context of Business Entities, the government agency in the jurisdiction of



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	operation that registers business entities. . In the case of a Government Entity, is a government-operated legal entity, agency, department, ministry, branch, or similar element of the government of a country, or political subdivision within such country (such as a state, province, city, country, etc.)
gTLD	Generic TopLevel Domain
High Risk Certificate Request	A Request that AC flags for additional scrutiny by reference to internal criteria and databases maintained by the CA, which MAY include names at higher risk for phishing or other fraudulent usage, names contained in previously rejected certificate requests or revoked Certificates, nameslisted on the Miller Smiles phishing list or the Google Safe Browsing list, or names that AC identifies using its own risk-mitigation criteria.
IANA	Internet Assigned Numbers Authority
ICANN	Internet Corporation for Assigned Names and Numbers
IFAC	International Federation of Accountants
IM	Instant Messaging
Incorporating Agency	Government Agency
Independent Confirmation From Applicant	Confirmation of a particular fact received by the CA pursuant to the provisions of the Guidelines or binding upon the Applicant.
Individual	A natural person
Intellectual Property Rights	Rights under one or more of the following: any copyright, patent, trade secret, trademark, and any other intellectual property rights
Intermediate	A Certification Authority whose Certificate is located within a Certificate Chain between
Certification	the Certificate of the root CA and the Certificate of the Certification Authority that issued
Authority	the end-user Subscriber's Certificate
Internal Name	A string of characters (not an IP address) in a Common Name or Subject Alternative Name field of a Certificate that cannot be verified as globally unique within the public DNS at the time of certificate issuance because it does not end with a Top Level Domain registered in
	IANA's Root Zone Database.
Internal Server Name	A Server Name (which MAY or MAY NOT include an Unregistered Domain Name) that is not resolvable using the public DNS
International Organization	An organization founded by a constituent document, e.g., a charter, treaty, convention or similar document, signed by, or on behalf of, a minimum of two Sovereign State governments
IRS	Internal Revenue Service
ISO	International Organization for Standardization
ISP	Internet Service Provider
Issuing CA	In relation to a particular Certificate, AC that issued the Certificate. This could be either a Root CA or a Subordinate CA
Jurisdiction of Incorporation	In the context of a Private Organization, the country and (where applicable) the state or province or locality where the organization's legal existence was established by a filing with (or an act of) an appropriate government agency or entity (e.g., where it was incorporated). In the context of a Government Entity, the country and (where applicable) the state or province where the Entity's legal existence was created by law.
Jurisdiction of Registration	In the case of a Business Entity, the state, province, or locality where the organization has registered its business presence by means of filings by a Principal Individual involved in the business.
Key Compromise	A Private Key is said to be compromised if its value has been disclosed to an unauthorized person or an unauthorized person has had access to it.
Key Generation	A procedure whereby a CA's or RA's key pair is generated, its private key is transferred
Ceremony	into a cryptographic module, its private key is backed up, and/or its public key is certified.
Key Generation Script	A documented plan of procedures for the generation of a CA Key Pair
Key Manager	An Administrator that performs key generation and recovery functions for a Managed PKI
Administrator	SSL Certisign Customer using Certigate
Key Pair	The Private Key and its associated Public Key
Key Recovery Block (KRB)	A data structure containing a Subscriber's private key that is encrypted using an encryption key. KRBs are generated using Certigate software



Key Recovery	A CERTISIGN service that provides encryption keys needed to recover a Key Recovery
Service	Block as part of a Managed PKI SSL Certisign Customer's use of Certigate to recover a Subscriber's private key
KRB	Key Recovery Block
Latin Notary	A person with legal training whose commission under applicable law not only includes authority to authenticate the execution of a signature on a document but also responsibility for the correctness and content of the document. A Latin Notary is sometimes referred to as a Civil Law Notary.
Legal Entity	An association, corporation, partnership, proprietorship, trust, government entity or other entity with legal standing in a country's legal system
Legal Existence	A Private Organization, Government Entity, or Business Entity has Legal Existence if it has been validly formed and not otherwise terminated, dissolved, or abandoned.
Legal Practitioner	A person who is either a lawyer or a Latin Notary as described in these Guidelines and competent to render an opinion on factual claims of the Applicant.
LSVA	Logical security vulnerability assessment
Managed PKI SSL Certisign	CERTISIGN's fully integrated Managed PKI SSL Certisign service that allows enterprise Customers of CERTISIGN and its Affiliates to distribute Certificates to individuals, such as employees, partners, suppliers, and customers, as well as devices, such as servers, routers, and firewalls. Managed PKI SSL Certisign permits enterprises to secure messaging,
	intranet28, extranet, virtual private network, and e-commerce applications
Managed PKI SSL Certisign Administrator	An Administrator that performs validation or other RA functions for a Managed PKI SSL Certisign Customer
Manual	A procedure whereby Certificate Applications are reviewed and approved manually one-
Authentication	by-one by an Administrator using a web-based interface
NIST	(US Government) National Institute of Standards and Technology
Non-repudiation	An attribute of a communication that provides protection against a party to a communication falsely denying its origin, denying that it was submitted, or denying its delivery. Denial of origin includes the denial that a communication originated from the same source as a sequence of one or more prior messages, even if the identity associated with the sender is unknown. Note: only an adjudication by a court, arbitration panel, or other tribunal can ultimately prevent repudiation. For example, a digital signature verified with reference to a AC Certificate MAY provide proof in support of a determination of Non-repudiation by a tribunal, but does not by itself constitute Non-repudiation
Non-verified Subscriber Information	Information submitted by a Certificate Applicant to a CA or RA, and included within a Certificate, that has not been confirmed by AC or RA and for which the applicable CA and RA provide no assurances other than that the information was submitted by the Certificate Applicant
Notary	A person whose commission under applicable law includes authority to authenticate the execution of a signature on a document.
Object Identifier	A unique alphanumeric or numeric identifier registered under the International Organization for Standardization's applicable standard for a specific object or object class
OCSP	Online Certificate Status Protocol
OCSP Responder	An online server operated under the authority of AC and connected to its Repository for processing Certificate status requests. See also, Online Certificate Status Protocol
Offline CA	Issuing Root CAs and other designated intermediate CAs that are maintained offline for security reasons in order to protect them from possible attacks by intruders by way of the network. These CAs do not directly sign end user Subscriber Certificates
OID	Object Identifier
Online CA	CAs that sign end user Subscriber Certificates are maintained online so as to provide continuous signing services
Online Certificate Status Protocol	An online Certificate-checking protocol for providing Relying Parties with real-time Certificate status information
Operational Period	The period starting with the date and time a Certificate is issued (or on a later date and time certain if stated in the Certificate) and ending with the date and time on which the Certificate expires or is earlier revoked
Parent Company	A company that Controls a Subsidiary Company.
PIN	Personal identification number



PKCS	Public-Key Cryptography Standard
PKCS #10	Public-Key Cryptography Standard #10, developed by RSA Security Inc., which defines a
Ι ΙΧΟΟ Π Ι Ο	structure for a Certificate Signing Request
PKCS #12	Public-Key Cryptography Standard #12, developed by RSA Security Inc., which defines a
1100 11 12	secure means for the transfer of private keys
PKI	Public Key Infrastructure
Place of Business	The location of any facility (such as a factory, retail store, warehouse, etc) where the
	Applicant's business is conducted
PMD	Policy Management Department
Policy Management	The organization within CERTISIGN responsible for promulgating this policy throughout
Authority (PMD)	AC
Principal Individual	An individual of a Private Organization, Government Entity, or Business Entity that is
Ĩ	either an owner, partner, managing member, director, or officer, as identified by their title
	of employment, or an employee, contractor or agent authorized by such entity or
	organization to conduct business related to the request, issuance, and use of EV
	Certificates.
Private Key	The key of a Key Pair that is kept secret by the holder of the Key Pair, and that is used to
-	create Digital Signatures and/or to decrypt electronic records or files that were encrypted
	with the corresponding Public Key
Private	A non-governmental legal entity (whether ownership interests are privately held or
Organization	publicly traded) whose existence was created by a filing with (or an act of) the
-	Incorporating Agency or equivalent in its Jurisdiction of Incorporation.
Public Key	The key of a Key Pair that MAY be publicly disclosed by the holder of the corresponding
	Private Key and that is used by a Relying Party to verify Digital Signatures created with
	the holder's corresponding Private Key and/or to encrypt messages so that they can be
	decrypted only with the holder's corresponding Private Key
Public Key	The architecture, organization, techniques, practices, procedures, hardware, software,
Infrastructure	people, rules, policies, and obligations that collectively support the implementation and
	operation of a Certificate-based public key cryptographic system.
Publicly-Trusted	A Certificate that is trusted by virtue of the fact that its corresponding Root Certificate is
Certificate	distributed as a trust anchor in widely-available application software
QGIS	Qualified Government Information Source
QIIS	Qualified Independent Information Source
QTIS	Qualified Government Tax Information Source
Qualified Auditor	A natural person or Legal Entity that meets the requirements of Section 8.2 Identity/Qualifications of Assessor
Qualified	A database maintained by a Government Entity (e.g. SEC filings) that meets the
Government	requirements of Section 11.11.6.
Information Source	
Qualified	A Qualified Governmental Information Source that specifically contains tax information
Government Tax	relating to Private Organizations, Business Entities, or Individuals
Information Source	
Qualified	A regularly-updated and current, publicly available, database designed for
Independent	the purpose of accurately providing the information for which it is consulted, and which is
Information Source	generally recognized as a dependable source of such information.
RA	Registration Authority
Random Value	A value specified by a CA to the Applicant that exhibits at least 112 bits of entropy.
Registered Domain Name	A Domain Name that has been registered with a Domain Name Registrar.
Registered Domain	A Domain Name that has been registered with a Domain Name Registrar.
Name	Reliable Data Source: An identification document or source of data used to verify Subject
	Identity Information that is generally recognized among commercial enterprises and
	governments as reliable, and which was created by a third party for a purpose other than
	the Applicant obtaining a Certificate.
Registered Office	The official address of a company, as recorded with the Incorporating Agency, to which
	oficial documents are sent and at which legal notices are received.
Registration Agency	A Governmental Agency that registers business information in connection with an entity's
	business formation or authorization to conduct business under a license, charter or other



	certification. A Registration Agency MAY include, but is not limited to (i) a State
	Department of Corporations or a Secretary of State; (ii) a licensing agency, such as a
	State Department of Insurance; or (iii) a chartering agency, such as a state office or
	department of financial regulation, banking or finance, or a federal agency such as the
	Office of the Comptroller of the Currency or Office of Thrift Supervision.
Registration	A Legal Entity that is responsible for identification and authentication of subjects of
Authority	Certificates, but is not a CA, and hence does not sign or issue Certificates. An RA MAY
	assist in the certificate application process or revocation process or both. When "RA" is
	used as an adjective to describe a role or function, it does not necessarily imply a separate
Registration	body, but can be part of the CA.The unique number assigned to a Private Organization by the Incorporating Agency in
Number	such entity's Jurisdiction of Incorporation
Regulated Financial	A financial institution that is regulated, supervised, and examined by governmental,
Institution	national, state or provincial, or local authorities.
Reliable Data	An identification document or source of data used to verify Subject Identity Information
Source	that is generally recognized among commercial enterprises and governments as reliable,
	and which was created by a third party for a purpose other than the Applicant obtaining a
	Certificate.
Reliable Method of	A method of communication, such as a postal/courier delivery address, telephone
Communication	number, or email address, that was verified using a source other than the Applicant
	Representative.
Relying Party	Any natural person or Legal Entity that relies on a Valid Certificate. An Application
	Software Supplier is not considered a Relying Party when software distributed by such
	Supplier merely displays information relating to a Certificate.
Relying Party	An agreement used by a CA setting forth the terms and conditions under which an
Agreement	individual or organization acts as a Relying Party.
Repository	An online database containing publicly-disclosed PKI governance documents (such as
	Certificate Policies and Certification Practice Statements) and Certificate status
Request Token	information, either in the form of a CRL or an OCSP response A value derived in a method specified by AC which binds this demonstration of control
Request Token	to the certificate request.
	The Request Token SHALL incorporate the key used in the certificate request.
	A Request Token MAY include a timestamp to indicate when it was created.
	A Request Token MAY include other information to ensure its uniqueness.
	A Request Token that includes a timestamp SHALL remain valid for no more than 30 days
	from the time of creation.
	A Request Token that includes a timestamp SHALL be treated as invalid if its timestamp is
	in the future.
	A Request Token that does not include a timestamp is valid for a single use and AC SHALL
	NOT re-use it for a subsequent validation.
	The binding SHALL use a digital signature algorithm or a cryptographic hash algorithm at
	least as strong as that to be used in signing the certificate request.
Required Website	Either a Random Value or a Request Token, together with additional information that
Content Deserved ID	uniquely identifies the Subscriber, as specified by the CA.
Reserved IP Address	An IPv4 or IPv6 address that the IANA has marked as reserved: http://www.iana.org/assignments/ipv4-address-space/ipv4-address-space.xml
Address	http://www.iana.org/assignments/ipv6-address-space/ipv6-address-space.xml
Retail Certificate	A Certificate issued by CERTISIGN or an Affiliate, acting as CA, to individuals or
Retail Cel tilleate	organizations applying one by one to CERTISIGN or an Affiliate on its web site.
RFC	Request for comment
Root CA	Root Certification Authority
Root Certificate	The self-signed Certificate issued by the Root CA to identify itself and to facilitate
	verification of Certificates issued to its Subordinate CAs
Root Certification	A CA that acts as a root CA and issues Certificates to CAs subordinate to it
Authority	
Root Key	Key Generation Script of a Root CA Key Pair
Generation Script	
Generation Script	



S/MIME	Secure MIME (multipurpose Internet mail extensions)
SAR	Security Audit Requirements
SEC	(US Government) Securities and Exchange Commission
Secret Share	A portion of a CA private key or a portion of the activation data needed to operate a CA
	private key under a Secret Sharing arrangement
Secret Sharing	The practice of splitting a CA private key or the activation data to operate a CA private key
	in order to enforce multi-person control over CA private key operations under CP Section 6.2.2
Secure Sockets	The industry-standard method for protecting Web communications developed by
Layer	Netscape Communications Corporation. The SSL security protocol provides data encryption, server authentication, message integrity, and OPTIONAL client authentication for a Transmission Control Protocol/Internet Protocol connection
Security and	A review of an Affiliate performed by CERTISIGN before an Affiliate is permitted to
Practices Review	become operational
Signing Authority	One or more Certificate Approvers designated to act on behalf of the Applicant.
SOC	Service Organization Control standard
Sovereign State	A state or country that administers its own government, and is not dependent upon, or
	subject to, another power.
SSL	Secure Sockets Layer
SSL Admin	A web-based interface that permits Managed PKI SSL Certisign Administrators to perform Manual Authentication of Certificate Applications
Sub-domain	The portion of CERTISIGN AC PARCERIA under control of an entity and all entities
	subordinate to it within CERTISIGN AC PARCERIA hierarchy
Subject	The natural person, device, system, unit, or Legal Entity identified in a Certificate as the
,	Subject and holder of a private key corresponding to a public key.
	The Subject is either the Subscriber or a device under the control and operation of the
	Subscriber. The term "Subject" can, in the case of an organizational Certificate, refer to the
	equipment or device that holds a private key. A Subject is assigned an unambiguous name,
	which is bound to the public key contained in the Subject's Certificate
Subject Identity	Information that identifies the Certificate Subject. Subject Identity Information does not
Information	include a domain name listed in the subjectAltName extension or the Subject commonName field
Subordinate CA	A Certification Authority whose Certificate is signed by the Root CA, or another
Suborumate CA	Subordinate CA
Subscriber	In the case of an individual Certificate, a person who is the Subject of, and has been issued, a Certificate. In the case of an organizational Certificate, an organization that owns the equipment or device that is the Subject of, and that has been issued, a Certificate. A Subscriber is capable of using, and is authorized to use, the private key that corresponds to the public key listed in the Certificate
Subscriber	Subscriber Agreement: An agreement between CERTISIGN AC PARCERIA or RA and the
Agreement	Applicant/Subscriber that specifies the rights and responsibilities of the parties.
Subsidiary	A company that is controlled by a Parent Company.
Company	
Superior Entity	An entity above a certain entity within a CERTISIGN AC PARCERIA hierarchy
Superior	Based on the structure of government in a political subdivision, the Government Entity or
Government Entity	Entities that have the ability to manage, direct and control the activities of the Applicant.
Supplemental Risk	A review of an entity by CERTISIGN following incomplete or exceptional findings in a
Management	Compliance Audit of the entity or as part of the overall risk management process in the
Review	ordinary course of business
Suspect code	Code that contains malicious functionality or serious vulnerabilities, including spyware, malware and other code that installs without the user's consent and/or resists its own removal, and code that can be exploited in ways not intended by its designers to
Technically	compromise the trustworthiness of the platforms on which it executes.
Technically	A Subordinate CA certificate which uses a combination of Extended Key Usage settings
Constrained	and Name Constraint settings to limit the scope within which the Subordinate CA
Subordinate CA	Certificate MAY issue Subscriber or additional Subordinate CA Certificates.
Certificate	
Terms of Use	Provisions regarding the safekeeping and acceptable uses of a Certificate issued in



	accordance with these Requirements when the Applicant/Subscriber is an Affiliate of the CA or is the CA.
Test Certificate	A Certificate with a maximum validity period of 30 days and which: (i) includes a critical extension with the specified Test Certificate CABF OID(2.23.140.2.1), or (ii) is issued under a CA where there are no certificate paths/chains to a root certificate subject to these Requirements.
Timestamp	An organization that timestamps data, thereby asserting that the data existed at the
Authority	specified time
TLD	Top-Level Domain
TLS	Transport Layer Security
Translator	An individual or Business Entity that possesses the requisite knowledge and expertise to
Tansiator	accurately translate the words of a document written in one language to the native language of the CA.
Trusted Person	An employee, contractor, or consultant of an entity within CERTISIGN AC PARCERIA
Trusteu Person	responsible for managing infrastructural trustworthiness of the entity, its products, its services, its facilities, and/or its practices as further defined in CP Section 5.2.1
Trusted Position	The positions within a CERTISIGN AC PARCERIA entity that MUST be held by a Trusted Person.
Trustworthy System	Computer hardware, software, and procedures that are reasonably secure from intrusion and misuse; provide a reasonable level of availability, reliability, and correct operation; are reasonably suited to performing their intended functions; and enforce the applicable security policy. A trustworthy system is not necessarily a "trusted system" as recognized in classified government nomenclature
TTL	Time To Live
Unregistered	A Domain Name that is not a Registered Domain Name.
Domain Name	
UTC(k)	National realization of Coordinated Universal Time
Valid Certificate	A Certificate that passes the validation procedure specified in RFC 5280.
Validation	Someone who performs the information verification duties specified by these
Specialists	Requirements
Validity Period	The period of time measured from the date when the Certificate is issued until the Expiry Date
Verified Accountant Letter	A document meeting the requirements specified in Section 11.11.2 of these Guidelines
Verified Legal Opinion	A document meeting the requirements specified in Section 11.11.1 of these Guidelines
Verified Method of	The use of a telephone number, a fax number, an email address, or postal delivery
Communication	address, confirmed by the CA in accordance with Section 11.5 of the Guidelines as a reliable way of communicating with the Applicant.
Verified Professional Letter	A Verified Accountant Letter or Verified Legal Opinion
VOID	Voice Over Internet Protocol
WebTrust EV	The additional audit procedures specified for CAs that issue EV Certificates by the
Program	AICPA/CICA to be used in conjunction with its WebTrust Program for Certification Authorities
WebTrust Program for CAs	The then-current version of the AICPA/CICA WebTrust Program for Certification Authorities
WebTrust Seal of	An affirmation of compliance resulting from the WebTrust Program for CAs
Assurance	
WHOIS	Information retrieved directly from the Domain Name Registrar or registry operator via the protocol defined in RFC 3912, the Registry Data Access Protocol defined in RFC 7482, or an HTTPS website.
Wildcard Certificate	A Certificate containing an asterisk (*) in the left-most position of any of the Subject Fully- Qualified Domain Names contained in the Certificate
Wildcard Domain	A Domain Name consisting of a single asterisk character followed by a single full stop
Name	character ("*.") followed by a Fully-Qualified Domain Name
XX	CABF Baseline Requirements, v. 1.0.5, Effective 12-Sep-12, user-assigned as XX, based on



ISO 3166-1 country code , was allowed

Table 2 - Acronyms and Definitions



Appendix B: References

- CA/Browser Forum Baseline Requirements Certificate Policy for the Issuance and Management of Publicly-Trusted Certificates- version 1.4.8 (available at https://cabforum.org/baseline-requirements-documents/)
- CA/Browser Forum Guidelines For The Issuance And Management Of Extended Validation Certificates version 1.6.5 (available at https://cabforum.org/extended-validation/)
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- ETSI EN 319 411-1, Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates; Part 1: General requirements.
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