



# Certification Practice Statement

## Siemens Issuing CAs

## Document History

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This document is published under [www.siemens.com/pki](http://www.siemens.com/pki).

## Scope and Applicability

This document constitutes the Certification Practice Statement (CPS) for the Siemens Issuing Certification Authorities (Issuing CAs). The purpose of this document is to publicly disclose to subscribers and relying parties the business policies and practices under which these Issuing CAs are operated.

## Document Status

This document with version 1.10 and status Released has been classified as “Unrestricted” and is licensed as CC BY-SA4.0.

|  | Name | Department | Date |
|--|------|------------|------|
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| <b>Authorization</b> | Markus Wichmann   | Siemens CYS                        | February 17, 2021                  |

This CPS has been approved by the responsible Siemens information security officer on February 17<sup>th</sup>, 2021.

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# 1 Introduction

This document has been structured according to RFC 3647 "Internet X.509 Public Key Infrastructure: Certificate Policy and Certification Practices Framework" (Nov 2003) [RFC3647].

## 1.1 Overview

This Certification Practice Statement (CPS) defines

- measures and procedures in the context of the Certification Services performed by the Siemens Issuing CAs
- minimum requirements demanded from all PKI participants

The CPS details the procedures and controls in place to meet the CP requirements. For identical topics, the respective chapter in the CP is referenced.

If new Issuing CAs may be introduced in the future additional CPS documents may be created, to cover special requirements.

The picture of the Siemens PKI hierarchy can be found in the Siemens Root CA CPS.

The following table lists the currently operated Issuing CAs as well as the requirements upon their issued certificates according to [ETSI EN TS 319 411-1] including the respective secure devices. Minimum requirement is NCP.

| Issuing CA   | Expiry date   | Requirements for issued certificates |      |      |               |            |     |      |
|--|---------------|--------------------------------------|------|------|---------------|------------|-----|------|
|  |               | ETSI quality level                   |      |      | Secure device |            |     |      |
|  |               | NCP+                                 | OVCP | DVCP | SmartCard     | SmartPhone | HSM | NwSC |
| ZZZZZA2 Siemens Issuing CA EE Auth 2016                                | 4 / 8 / 2022  | X                                    |      |      | X             |            |     |      |
| ZZZZZA3 Siemens Issuing CA EE Enc 2016                                 | 4 / 8 / 2022  | X                                    |      |      | X             | X          |     | X    |
| ZZZZZA4 Siemens Issuing CA Intranet Code Signing 2016                  | 20 / 7 / 2022 |                                      |      |      |               |            |     |      |
| ZZZZZA5 Siemens Issuing CA Multipurpose 2016                           | 4 / 8 / 2022  |                                      |      |      |               |            |     |      |
| ZZZZZA6 Siemens Issuing CA Medium Strength Authentication 2016         | 4 / 8 / 2022  |                                      |      |      |               |            |     |      |
| ZZZZZA7 Siemens Issuing CA Intranet Server 2016                        | 20 / 7 / 2022 |                                      | X    | X    |               |            |     |      |
| ZZZZZB7 Siemens Issuing CA Intranet Server 2017                        | 27 / 6 / 2023 |                                      | X    | X    |               |            |     |      |
| ZZZZZA8 Siemens Issuing CA Internet Code Signing 2016                  | 20 / 7 / 2022 |                                      |      |      |               |            |     |      |
| ZZZZZA9 Siemens Issuing CA Class Internet Server 2016 <b>(revoked)</b> | 5 / 8 / 2022  |                                      | X    | X    |               |            |     |      |
| ZZZZZB9 Siemens Issuing CA Class Internet Server 2017 <b>(revoked)</b> | 11 / 7 / 2023 |                                      | X    | X    |               |            |     |      |
| ZZZZZAD Siemens Issuing CA EE Network Smartcard Auth 2016              | 4 / 8 / 2022  | X                                    |      |      |               |            |     | X    |
| ZZZZZAB Siemens Issuing CA MSA Impersonalized Entities 2016            | 20 / 7 / 2022 |                                      |      |      |               |            |     |      |
|  |               |                                      |      |      |               |            |     |      |
| ZZZZZB2 Siemens Issuing CA EE Auth 2020                                | 29 / 6 / 2026 | X                                    |      |      | X             |            |     |      |
| ZZZZZB3 Siemens Issuing CA EE Enc 2020                                 | 29 / 6 / 2026 | X                                    |      |      | X             | X          |     | X    |
| ZZZZZBD Siemens Issuing CA EE Network Smartcard Auth 2020              | 29 / 6 / 2026 | X                                    |      |      |               |            |     | X    |
| ZZZZZB6 Siemens Issuing CA Medium Strength Authentication 2020         | 29 / 6 / 2026 |                                      |      |      |               |            |     |      |
|  |               |                                      |      |      |               |            |     |      |
| ZZZZZVN Siemens Issuing CA Class PGP                                   |               |                                      |      |      |               |            |     |      |

**Table 1: Issuing CA Implementation of ETSI requirements**

Siemens Issuing CAs issue Certificates to the below-specified groups of End Entities or class of applications with common security requirements ("Communities").

For Siemens PKI the following Communities exist:

- Siemens Employee (S-E)
- Functional Group (FG)
- Business Partner (BP)
- Device (e.g. Server - SRV)

## 1.2 Document Name and Identification

This CPS is referred to as the 'Certification Practice Statement of Siemens Issuing CAs'.

Title: Certification Practice Statement of Siemens Issuing CAs  
OID: 1.3.6.1.4.1.4329.99.2.2.1.12.0  
Expiration: This version of the document is the most current one until a subsequent release is published.

## 1.3 PKI Participants

PKI Participants are Siemens Certification Authorities, Registration Authorities, Subjects, and Relying Parties.

### 1.3.1 Certification Authorities

Specified in the Certificate Policy.

### 1.3.2 Registration Authorities

Specified in the Certificate Policy.

### 1.3.3 Subscribers

Specified in the Certificate Policy.

### 1.3.4 Relying Parties

Specified in the Certificate Policy.

### 1.3.5 Other participants

Specified in the Certificate Policy.

## 1.4 Certificate Usage

### 1.4.1 Appropriate Certificate Usage

Specified in the Certificate Policy.

### 1.4.2 Prohibited Certificate Usage

Specified in the Certificate Policy.

## 1.5 Policy Administration

### 1.5.1 Organization Administering the Document

**Error! Hyperlink reference not valid.** Specified in the Certificate Policy.

### 1.5.2 Contact Person

Specified in the Certificate Policy.

## **2 Publication and Repository Responsibilities**

### 2.1 Repositories

Specified in the Certificate Policy.

### 2.2 Publication of Certification Information

Specified in the Certificate Policy.

### 2.3 Time or Frequency of Publication

Specified in the Certificate Policy.

### 2.4 Access Controls on Repositories

Specified in the Certificate Policy.

## **3 Identification and Authentication**

### **3.1 Naming**

#### **3.1.1 Types of Names**

Specified in the Certificate Policy.

#### **3.1.2 Need of Names to be Meaningful**

Specified in the Certificate Policy.

#### **3.1.3 Anonymity or Pseudonymity of Subscribers**

Specified in the Certificate Policy.

#### **3.1.4 Rules for Interpreting Various Name Forms**

Specified in the Certificate Policy.

#### **3.1.5 Uniqueness of Names**

Specified in the Certificate Policy.

#### **3.1.6 Recognition, Authentication, and Roles of Trademarks**

Specified in the Certificate Policy.

## 3.2 Initial Identity Validation

### 3.2.1 Method to Prove Possession of Private Key

Specified in the Certificate Policy.

### 3.2.2 Identification and Authentication of Organization Identity

#### 3.2.2.1 Identity and Country

All certificates are issued with the following information as part of the Subject Distinguished Name:

- O = Siemens
- L = Muenchen
- S = Bayern
- C = DE

#### 3.2.2.2 DBA / Tradename

No DBA / Tradename except of "Siemens" is to be included in a server certificate.

#### 3.2.2.3 Validation of Domain Authorization or Control

Siemens CA stopped the issuance of publicly trusted TLS certificates on October 15<sup>th</sup> 2019.

#### 3.2.2.4 Wildcard Domain Validation

Siemens CA stopped the issuance of publicly trusted TLS certificates on October 15<sup>th</sup> 2019.

### 3.2.3 Identification and Authentication of Individual Identity

Specified in the Certificate Policy.

### 3.2.4 Non-verified Subscriber Information

Specified in the Certificate Policy.

### 3.2.5 Validation of Authority

Specified in the Certificate Policy.

### 3.2.6 Criteria for Interoperation between Communities of Trusts

Specified in the Certificate Policy.

## 3.3 Identification and Authentication for Re-key Requests

Specified in the Certificate Policy.

## 3.4 Identification and Authentication for Revocation Requests

Specified in the Certificate Policy.

## 4 Certificate Lifecycle Operational Requirements

The table below sets forth the responsibilities for each type of Subscriber and Certificate Authentication/Digital Signatures (“A/D Certificate”); Encryption (“E Certificate”); and server Certificate (S Certificate)). For End Entity Certificates, Siemens Issuing CA does not provide “Renewal” and “Modification” operations, because these are covered by the “Re-key” process.

### Abbreviations:

“End Entity” = EE; “Authorized Party” = AP; “Siemens Sponsor” = SS; PKI Self Service = PKISS

| Certificate holder         |  | Certificate lifecycle |               |                                   |               |  |
|----------------------------|--|-----------------------|---------------|-----------------------------------|---------------|--|
| Community                  | Subscriber   | Initial Application   | Renewal       | Re-Key                            | Modification  | Revocation   |
| Siemens Community          | Siemens Employee <ul style="list-style-type: none"> <li>• A/D Certificate</li> <li>• E Certificate</li> <li>• EFS Certificate</li> </ul>           | AP via RA             | Not performed | EE or AP via RA or PKISS / MyPKI  | Not performed | EE or AP via RA or PKISS / MyPKI (only for E Cert) |
|                            | Siemens Functional Group <ul style="list-style-type: none"> <li>• A/D Certificate</li> <li>• E Certificate</li> <li>• Code Signing</li> </ul>      | AP via RA             | Not performed | AP or SS via RA                   | Not performed | AP or SS via RA                                    |
| Business Partner Community | Business Partner <ul style="list-style-type: none"> <li>• A/D Certificate</li> <li>• E Certificate</li> <li>• Multi Purpose Certificate</li> </ul> | SS or AP via RA       | Not performed | EE, or AP via RA or PKISS / MyPKI | Not performed | AP or SS via RA and EE via PKISS / MyPKI           |
| Server Community           | Server <ul style="list-style-type: none"> <li>• S Certificate</li> </ul>   | AP via RA             | Not performed | AP via RA                         | Not performed | AP via RA  |

Table 2: Certificate lifecycle for Siemens Issuing CAs

### 4.1 Certificate Application

#### 4.1.1 Who can submit a certificate application?

Members of the Siemens Community and Business Partner Community and Server Community can act as Certificate Applicants.

#### 4.1.2 Enrollment Process and Responsibilities

Specified in the Certificate Policy.

## 4.2 Certificate Application Processing

### 4.2.1 Performing identification and authentication functions

Specified in the Certificate Policy.

### 4.2.2 Approval or Rejection of Certificate Applications

Specified in the Certificate Policy.

### 4.2.3 Time to Process Certificate Applications

Specified in the Certificate Policy.

### 4.2.4 Certificate Authority Authorization (CAA)

Specified in the Certificate Policy.

## 4.3 Certificate Issuance

### 4.3.1 Issuing CA actions during Certificate issuance

Specified in the Certificate Policy.

### 4.3.2 Notification to Subscriber by the CA of Certificate issuance

Specified in the Certificate Policy.

## 4.4 Certificate Acceptance

### 4.4.1 Conduct constituting Certificate acceptance

Specified in the Certificate Policy.

### 4.4.2 Publication of the Certificate by the CA

Subscriber Certificates will be published in the Repository according to the following table.

|                             | Siemens SCD | Siemens AD | External Repository |
|-----------------------------|-------------|------------|---------------------|
| Repository Classification   | internal    | Internal   | External            |
| Authentication Certificates | No          | No         | No                  |
| Encryption Certificates     | Yes         | Yes        | Yes                 |
| Multipurpose Certificates   | No          | No         | Yes                 |
| EFS Certificates            | No          | No         | No                  |
| Code Signing Certificates   | No          | No         | No                  |
| Server Certificates         | No          | No         | No                  |

**Table 3: Publication of Subscriber Certificates**

### 4.4.3 Notification of Certificate issuance by the CA to other entities

Specified in the Certificate Policy.



## 4.5 Key Pair and Certificate Usage

### 4.5.1 Subject Private Key and Certificate Usage

For the Siemens Community Subjects (Siemens employees and Functional Groups): the Siemens Issuing CAs or the respective RAs have the responsibility of informing each Subjects of these responsibilities and any applicable limitations on the use of Certificates and Key Pairs imposed by Siemens-internal policies in accordance with employment law and practice governing the respective RA.

For the Business Partner Community Subjects, who are individuals and independent contractors: the Siemens Sponsor or its RA is responsible for informing Subjects of these responsibilities and any such limitations on use imposed by Siemens-internal policies in accordance with employment law and practice. For the Business Partner Community Subjects, who are employees or agents of legal entities which are Business Partners, the respective RA of the Business Partner has the responsibility of informing each Subject of these responsibilities and any applicable limitations on use imposed by the Business Partner-internal policies in accordance with employment law and practice governing the respective RA.

For the Server Community Subjects: the Siemens Issuing CAs or the respective RAs have the responsibility of informing each Subject of these responsibilities and any applicable limitations on the use of Certificates and Key Pairs imposed by Siemens-internal policies in accordance with employment law and practice governing the respective RA.

### 4.5.2 Relying Party Public Key and Certificate Usage

Specified in the Certificate Policy.

## 4.6 Certificate Renewal

Specified in the Certificate Policy.

### 4.6.1 Circumstance for Certificate Renewal

Specified in the Certificate Policy.

### 4.6.2 Who may request renewal?

Specified in the Certificate Policy.

### 4.6.3 Processing Certificate Renewal Request

Specified in the Certificate Policy.

### 4.6.4 Notification of new Certificate Issuance to Subject

Specified in the Certificate Policy.

### 4.6.5 Conduct Constituting Acceptance of a Renewal Certificate

Specified in the Certificate Policy.

### 4.6.6 Publication of the Renewal Certificate by the CA

Specified in the Certificate Policy.

### 4.6.7 Notification of Certificate Issuance by the CA to the Entities

Specified in the Certificate Policy.

## 4.7 Certificate Re-key

Specified in the Certificate Policy.

**4.7.1 Circumstances for Certificate Re-key**

Specified in the Certificate Policy.

**4.7.2 Who may request certification of a new Public Key?**

Specified in the Certificate Policy.

**4.7.3 Processing Certificate Re-keying Requests**

Specified in the Certificate Policy.

**4.7.4 Notification of new Certificate Issuance to Subscriber**

Specified in the Certificate Policy.

**4.7.5 Conduct Constituting Acceptance of a Re-keyed Certificate**

Specified in the Certificate Policy.

**4.7.6 Publication of the Re-keyed Certificate by the CA**

Specified in the Certificate Policy.

**4.7.7 Notification of Certificate Issuance by the CA to other Entities**

Specified in the Certificate Policy.

**4.8 Certificate Modification**

Specified in the Certificate Policy.

## 4.9 Certificate Revocation and Suspension

### 4.9.1 Circumstances for Revocation

Siemens CA shall revoke a Certificate within 24 hours if one or more of the following occurs:

1. The Subscriber requests in writing that Siemens CA revokes the Certificate;
2. The Subscriber notifies Siemens CA that the original certificate request was not authorized and does not retroactively grant authorization;
3. Siemens CA obtains evidence that the Subscriber's Private Key corresponding to the Public Key in the Certificate suffered a Key Compromise;
4. Siemens CA is made aware of a demonstrated or proven method that can easily compute the Subscriber's Private Key based on the Public Key in the Certificate (such as a Debian weak key, see <https://wiki.debian.org/SSLkeys>);
5. Siemens CA obtains evidence that the validation of domain authorization or control for any Fully-Qualified Domain Name or IP address in the Certificate should not be relied upon.

Siemens CA should revoke a certificate within 24 hours and must revoke a Certificate within 5 days if one or more of the following occurs:

1. The Certificate no longer complies with the requirements of Sections 6.1.5 and 6.1.6;
2. Siemens CA obtains evidence that the Certificate was misused;
3. Siemens CA is made aware that a Subscriber has violated one or more of its material obligations under the Subscriber Agreement or Terms of Use;
4. Siemens CA is made aware of any circumstance indicating that use of a Fully-Qualified Domain Name or IP address in the Certificate is no longer legally permitted (e.g. a court or arbitrator has revoked a Domain Name Registrant's right to use the Domain Name, a relevant licensing or services agreement between the Domain Name Registrant and the Applicant has terminated, or the Domain Name Registrant has failed to renew the Domain Name);
5. Siemens CA is made aware that a Wildcard Certificate has been used to authenticate a fraudulently misleading subordinate Fully-Qualified Domain Name;
6. Siemens CA is made aware of a material change in the information contained in the Certificate;
7. Siemens CA is made aware that the Certificate was not issued in accordance with these Requirements or Siemens CA's Certificate Policy or Certification Practice Statement;
8. Siemens CA determines or is made aware that any of the information appearing in the Certificate is inaccurate;
9. Siemens CA's right to issue Certificates under these Requirements expires or is revoked or terminated, unless Siemens CA has made arrangements to continue maintaining the CRL/OCSP Repository;
10. Revocation is required by Siemens CA's Certificate Policy and/or Certification Practice Statement; or
11. Siemens CA is made aware of a demonstrated or proven method that exposes the Subscriber's Private Key to compromise or if there is clear evidence that the specific method used to generate the Private Key was flawed.

### 4.9.2 Who can request revocation?

The following entities may request revocation of an End Entity Certificate.

- The Subscriber, RA, or Issuing CA can initiate revocation.

- Additionally, Subscribers, Relying Parties, Application Software Suppliers, and other third parties may submit Certificate Problem Reports informing the issuing CA of reasonable cause to revoke the certificate.
- Only duly authorized representative of the organization (i.e., Authorized Party or Siemens Sponsor, CP/CPS §4.1.1) may request the revocation of Certificates issued to the organization.

#### **4.9.3 Procedure for Revocation Request**

Specified in the Certificate Policy.

#### **4.9.4 Revocation Request Grace Period**

Specified in the Certificate Policy.

#### **4.9.5 Time within which CA must Process the Revocation Request**

Specified in the Certificate Policy.

#### **4.9.6 Revocation Checking Requirement for Relying Parties**

Specified in the Certificate Policy.

#### **4.9.7 CRL Issuance Frequency**

Specified in the Certificate Policy.

#### **4.9.8 Maximum Latency for CRLs**

Specified in the Certificate Policy.

#### **4.9.9 On-line Revocation Checking Requirements**

Specified in the Certificate Policy.

#### **4.9.10 Other Forms of Revocation Advertisements Available**

Specified in the Certificate Policy.

#### **4.9.11 Special Requirements for Private Key Compromise**

Specified in the Certificate Policy.

#### **4.9.12 Circumstances for Suspension**

Specified in the Certificate Policy.

### **4.10 Certificate Status Services**

#### **4.10.1 Operational Characteristics**

Specified in the Certificate Policy.

#### **4.10.2 Service Availability**

Specified in the Certificate Policy.

#### **4.10.3 Optional Features**

Specified in the Certificate Policy.

## 4.11 End of Subscription

Specified in the Certificate Policy.

## 4.12 Key Escrow and Recovery

Specified in the Certificate Policy.

## 5 Management, Operational, and Physical Controls

Specified in the Root CA CPS.

### 5.1 Physical Security Controls

#### 5.1.1 Site Location and Construction

Specified in the Certificate Policy.

#### 5.1.2 Physical Access

Specified in the Certificate Policy.

#### 5.1.3 Power and Air Conditioning

Specified in the Certificate Policy.

#### 5.1.4 Water Exposure

Specified in the Certificate Policy.

#### 5.1.5 Fire Prevention and Protection

Specified in the Certificate Policy.

#### 5.1.6 Media Storage

Specified in the Certificate Policy.

#### 5.1.7 Waste Disposal

Specified in the Certificate Policy.

#### 5.1.8 Off-site Backup

Specified in the Certificate Policy.

### 5.2 Procedural Controls

#### 5.2.1 Trusted Roles

Specified in the Certificate Policy.

#### 5.2.2 Numbers of Persons Required per Task

Specified in the Certificate Policy.

#### 5.2.3 Identification and Authentication for each Role

Specified in the Certificate Policy.

#### 5.2.4 Roles Requiring Separation of Duties

Specified in the Certificate Policy.

## 5.3 Personnel Security Controls

### 5.3.1 Qualifications, Experience and Clearance Requirements

Specified in the Certificate Policy.

### 5.3.2 Background Check Procedures

Specified in the Certificate Policy.

### 5.3.3 Training Requirements

Specified in the Certificate Policy.

### 5.3.4 Retraining Frequency and Requirements

Specified in the Certificate Policy.

### 5.3.5 Job Rotation Frequency and Sequence

Specified in the Certificate Policy.

### 5.3.6 Sanctions for Unauthorized Actions

Specified in the Certificate Policy.

### 5.3.7 Independent Contractor Requirements

Specified in the Certificate Policy.

### 5.3.8 Documents Supplied to Personnel

Specified in the Certificate Policy.

## 5.4 Audit Logging Procedures

Specified in the Certificate Policy.

### 5.4.1 Types of Events Recorded

Specified in the Certificate Policy.

### 5.4.2 Frequency of Processing Audit Logging Information

Specified in the Certificate Policy.

### 5.4.3 Retention Period for Audit Logging Information

Specified in the Certificate Policy.

### 5.4.4 Protection of Audit Logs

Specified in the Certificate Policy.

### 5.4.5 Backup Procedures for Audit Logging Information

Specified in the Certificate Policy.

### 5.4.6 Collection System for Monitoring Information (internal or external)

Specified in the Certificate Policy.

### 5.4.7 Notification to Event-causing Subject

Specified in the Certificate Policy.

#### 5.4.8 Vulnerability Assessments

Specified in the Certificate Policy.

### 5.5 Records Archival

#### 5.5.1 Types of Records Archived

Specified in the Certificate Policy.

#### 5.5.2 Retention Period for Archived Audit Logging Information

Specified in the Certificate Policy.

#### 5.5.3 Protection of Archived Audit Logging Information

Specified in the Certificate Policy.

#### 5.5.4 Archive Backup Procedures

Specified in the Certificate Policy.

#### 5.5.5 Requirements for Time-Stamping of Record

Specified in the Certificate Policy.

#### 5.5.6 Archive Collection System (internal or external)

Specified in the Certificate Policy.

#### 5.5.7 Procedures to Obtain and Verify Archived Information

Specified in the Certificate Policy.

### 5.6 Key Changeover

Keys expire at the same time as their associated Certificates. Key Changeover must occur before the expiration of its Certificates (stop issuance date) and shall be performed manually.

| CA                 | Validity period | Operational period (Stop Issuance Date) |
|--------------------|-----------------|---|
| Siemens Issuing CA | 6 years         | 3 years                                 |

At "Stop Issuance Date" Siemens CA stops issuing Certificates with old key and initiate generation of new keys. The new Certificate of the new Public Key is published. Certificate Requests received after the "Stop Issuance Date," will be signed with the new CA Private Key.



## 5.7 Compromise and Disaster Recovery

### 5.7.1 Incident and Compromise Handling Procedures

Specified in the Certificate Policy.

### 5.7.2 Corruption of Computing Resources, Software, and/or Data

Specified in the Certificate Policy.

### 5.7.3 Entity Private Key Compromise Procedures

Specified in the Certificate Policy.

### 5.7.4 Business Continuity Capabilities After a Disaster

Specified in the Certificate Policy.

## 5.8 CA Termination

Specified in the Certificate Policy.

## 6 Technical Security Controls

Specified in the Root CA CPS.

### 6.1 Key Pair Generation and Installation

#### 6.1.1 Key Pair Generation

Specified in the Root CA CPS.

#### 6.1.2 Private Key Delivery to Subject

During the operation of the Siemens Issuing CAs, the trusted operator ensures that the CAs' Private Key do not leave its secure facility.

For an Authentication/Digital Signatures Certificate, there is no delivery of Private Key to Subscribers because each Subscriber will generate his own Private Key with the Secure Signature Creation Device ("SSCD"). For a Encryption Certificate, the Private Key will be securely delivered to the Subject through the respective RA, either by physically handing the Private Key to the Subject in person after Validation of Subject's identity or by securely mailing or delivering via courier the Private Key with procedure for Validation of Subject's identity or through PKISS/MyPKI.

For Server Certificates the Certificate Applicant is responsible for the security of the private key. The Siemens Issuing CA does not store or generate this key. No private keys for SSL/TLS certificate are delivered to the subscriber.

#### 6.1.3 Public Key Delivery to Certificate Issuer

Compare chapter 4.4.2.

#### 6.1.4 CA Public Key delivery Relying Parties

Specified in the Root CA CPS.

#### 6.1.5 Key Sizes

Specified in the Root CA CPS.

#### 6.1.6 Public Key Parameters Generation and Quality Checking

Specified in the Root CA CPS.

#### 6.1.7 Key Usage Purposes

Specified in the Root CA CPS.

### 6.2 Private Key Protection and Cryptographic Module Engineering Controls

#### 6.2.1 Cryptographic Module Standards and Controls

Specified in the Root CA CPS.

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

Specified in the Root CA CPS.

#### 6.2.3 Private Key Escrow

For End Entity Subscribers having an Encryption Certificate, the Private Key will be escrowed by Siemens CA's trusted operator. For End Entity Subscribers having the *Authentication/Digital Certificate/Server Certificates*, there is no stipulation.

#### 6.2.4 Private Key Backup

For Private Keys of Issuing CAs, separate backup hardware cryptographic modules are used and kept secure at separate sites in the trusted operator's backup locations during operation of the Issuing CA. The following requirements apply to Issuing CA Private Keys.

1. Hardware cryptographic modules used for Issuing CA Private Key storage are to meet the requirements of §6.2.1.
2. Issuing CA Private Keys are copied to backup hardware cryptographic modules in accordance with §6.2.6.
3. Modules containing onsite backup copies and disaster recovery copies of Issuing CA Private Keys are subject to the requirements of §5.1 and §6.2.1.

§6.2.3 addresses the backup of Subscriber Private Keys.

#### 6.2.5 Private Key Archival

Issuing CA Private Key archival: Compare chapter 6.2.4.

End Entity Subscriber Private Key archival: When Key Pairs reach the end of their Validity Period, the Key Pair will be archived for a period of at least thirty (30) years. This is only applicable for Encryption Certificates.

#### 6.2.6 Private Key Transfer into or from a Cryptographic Module

Private Keys of the Issuing CAs are securely stored exclusively on hardware cryptographic modules.

#### 6.2.7 Storage of Private Keys on the Cryptographic Module

Issuing CA Private Keys are stored on hardware cryptographic modules with Common Criteria (CC) Evaluation Assurance Level (EAL) 4+, which is generally equivalent to Information Technology Security Evaluation Criteria (ITSEC) assurance level E3. Where Issuing CA Key Pairs are backed up to an equivalent hardware cryptographic module, such Key Pairs are transported between modules in encrypted form inside the high security cell of the secure facility.

#### 6.2.8 Method of Activating Private Key

Upon issuance, Issuing CA Private Keys are activated on the hardware cryptographic module in the trusted operator high security cell, which is witnessed by a representative of Siemens CA and at least two (2) authorized trusted operator employees and is documented for audit logging purposes.

End Entity Subscriber Private Keys are generally activated through Subscriber's use of Activation Data. All Siemens PKI Participants are required to protect the Activation Data for their Private Keys against loss, theft, modification, unauthorized disclosure, or unauthorized use.

#### 6.2.9 Method of Deactivating Private Key

Issuing CA Private Keys on hardware cryptographic modules can be deactivated (and reactivated, if necessary) through deactivation software in the trusted operator's high security cell, which is witnessed by at least two authorized trusted operator employees and is documented for audit logging purposes.

#### 6.2.10 Method of Destroying Private Key

Issuing CA private keys are solely stored within cryptographic hardware modules (see 6.2.7). Their destruction (in case they are no longer needed) requires the participation of three trusted employees. When performed, the destruction process is logged.

In case subject private keys are no longer needed, the corresponding certificate will be revoked. Due to key-recovery requirements for encryption keys, these keys will be securely archived by the corresponding Issuing CA. E.g. in case an employee leaves the company the corresponding employee card (which includes the private key) will be retracted and securely destroyed. The destruction process is documented accordingly.

#### 6.2.11 Cryptographic Module Rating

Specified in the Root CA CPS.

## 6.3 Other Aspects of Key Pair Management

### 6.3.1 Public Key Archival

Specified in the Root CA CPS.

### 6.3.2 Certificate Operational Periods and Key Pair Usage Periods

The Issuing CA Key Pair usage period is subject to the Validity Period of the Certificates issued by the CA. The Validity Period of the Private Key and Public Key of Issuing CAs, RAs and Subjects ends upon its expiration or revocation. This Validity Period is based on the Validity Period of the Root CA Certificate set forth in the table below.

|                            | CA Certificate | Authentication/<br>Digital Signature Certificate | Encryption Certificate | EFS Certificate | Server Certificate         | Multi-purpose Certificate | Code Signing Certificate |
|----------------------------|----------------|--|------------------------|-----------------|----------------------------|---------------------------|--------------------------|
| <b>Siemens Issuing CAs</b> | 6              | N/A  | N/A                    | N/A             | N/A                        | N/A                       | N/A                      |
| <b>Siemens employee</b>    | N/A            | 3  | 3                      | 3               | N/A                        | N/A                       | N/A                      |
| <b>Functional Group</b>    | N/A            | 1  | 1                      | N/A             | N/A                        | N/A                       | 3                        |
| <b>Business Partner</b>    | N/A            | 1  | 1                      | N/A             | N/A                        | 1                         | N/A                      |
| <b>Servers</b>             | N/A            | N/A  | N/A                    | N/A             | 1 years +<br>up to 92 days | N/A                       | N/A                      |

**Table 4 Validity Period of Certificates (in years from date of issuance)**

## 6.4 Activation Data

Activation Data refers to data values other than whole Private Keys that are required to operate Private Keys or hardware cryptographic modules containing Private Keys, such as a PIN, password or portions of a Private Key used in a key-splitting scheme. Protection of Activation Data prevents unauthorized use of the Private Key, and potentially needs to be considered for the Siemens Issuing CA, RAs and Subjects.

No Activation Data for Siemens Issuing CA Private Keys are currently provided by its trusted operator to ensure fully automated CA operation with a minimum of manual intervention.

### 6.4.1 Activation Data Generation and Installation

Specified in the Root CA CPS.

### 6.4.2 Activation Data Protection

Specified in the Root CA CPS.

### 6.4.3 Other Aspects of Activation Data

Specified in the Root CA CPS.

## 6.5 Computer Security Controls

Specified in the Root CA CPS.

## 6.6 Life Cycle Security Controls

### 6.6.1 System Development Controls

Specified in the Root CA CPS.

### 6.6.2 Security Management Controls

Specified in the Root CA CPS.

### 6.6.3 Life Cycle of Security Controls

Specified in the Root CA CPS.

## 6.7 Network Security Controls

The Issuing CA's network security controls that protect the networks that tie together the single computer platforms and their applications (addressed in §6.5.1) are provided by trusted operator in accordance with its ISMS. They include the use of:

1. firewalls and other controls to protect the integrity of the networks of the PKI Participants from intrusion from external domains;
2. sufficiently strong authentication to ensure that the appropriate entities are communicating (e.g., RA communicating with Issuing CA), integrity mechanisms to ensure that the information being exchanged will not be modified, and confidentiality mechanisms to ensure that selected information is protected from unauthorized examination (e.g., through Digitally Signed or encrypted messages);
3. access controls to protect networks from unauthorized use; and
4. mechanisms to prevent damage from denial-of-service attacks.

All information technology (IT) components in the trusted operator's secure facility are protected by firewalls from different manufacturers, which permit only dedicated access to its innermost systems for Issuing CA operations. The resulting security is constantly checked with the help of targeted attempts to penetrate the Siemens-internal network by independent Siemens departments according to schedules that are not made generally known to the trusted operator.

## 6.8 Time Stamp Process

Specified in the Root CA CPS.

## 7 Certificate, CRL, and OCSP Profiles

All digital Certificates issued by the Issuing CAs comply with digital Certificate and CRL profiles as described in [RFC 5280].

### 7.1 Certificate Profile

Detailed description of the Issuing CA profiles can be downloaded on <http://www.siemens.com/pki>

### 7.2 CRL Profile

Detailed description of the CRLs policies can be downloaded on <http://www.siemens.com/pki>

### 7.3 OCSP Profile

Detailed description of the OCSP profiles can be downloaded on <http://www.siemens.com/pki>

## 8 Compliance Audit and Other Assessment

Specified in the Certificate Policy.

## 9 Other Business and Legal Matters

Specified in the Certificate Policy.



## 10 References

Specified in the Certificate Policy.

## Annex A: Acronyms and Definitions

### A.1 Definitions

Specified in the Annex of the Certificate Policy.

### A.2 Abbreviations

Specified in the Annex of the Certificate Policy.