



# Siemens Trust Center PKI

## CA Hierarchy Policy 2023

# Document History

Version	Date	Author	Change Comment
1.0	September 13, 2023	M. Fechter / IT IPS SIP ET	First initial version

This document will be reviewed every year or in the event of an important ad-hoc change according to the Information Security update process for documents. Each new version will be approved by the respective management level before being released.

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

## Scope and Applicability

This document constitutes the Certificate Authority Hierarchy (CA Hierarchy) for the Siemens CA Certificates (Issuing & Root). The purpose of this document is to publicly disclose to subscribers and relying parties the business policies and practices under which Root- and Issuing CA are operated.

## Document Status

This document with version 1.0 and status Released has been classified as "Unrestricted".

	Name	Department	Date
<b>Author</b>	Various authors, detailed information in document history		
<b>Checked by</b>	Thorsten Bergmann	Siemens IT IPS SIP ET	12.10.2023
<b>Authorization</b>	Markus Wichmann	Siemens CYS INF NG	12.10.2023

This document has been approved by the responsible service owner at Siemens CYS INF NG on October 12, 2023.

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# 1 Introduction

This document explains the Siemens CA Hierarchy 2023 (Root & Issuing).

## 1.1 Overview

The following picture shows the Siemens Root CAs together with the respective Issuing CAs:

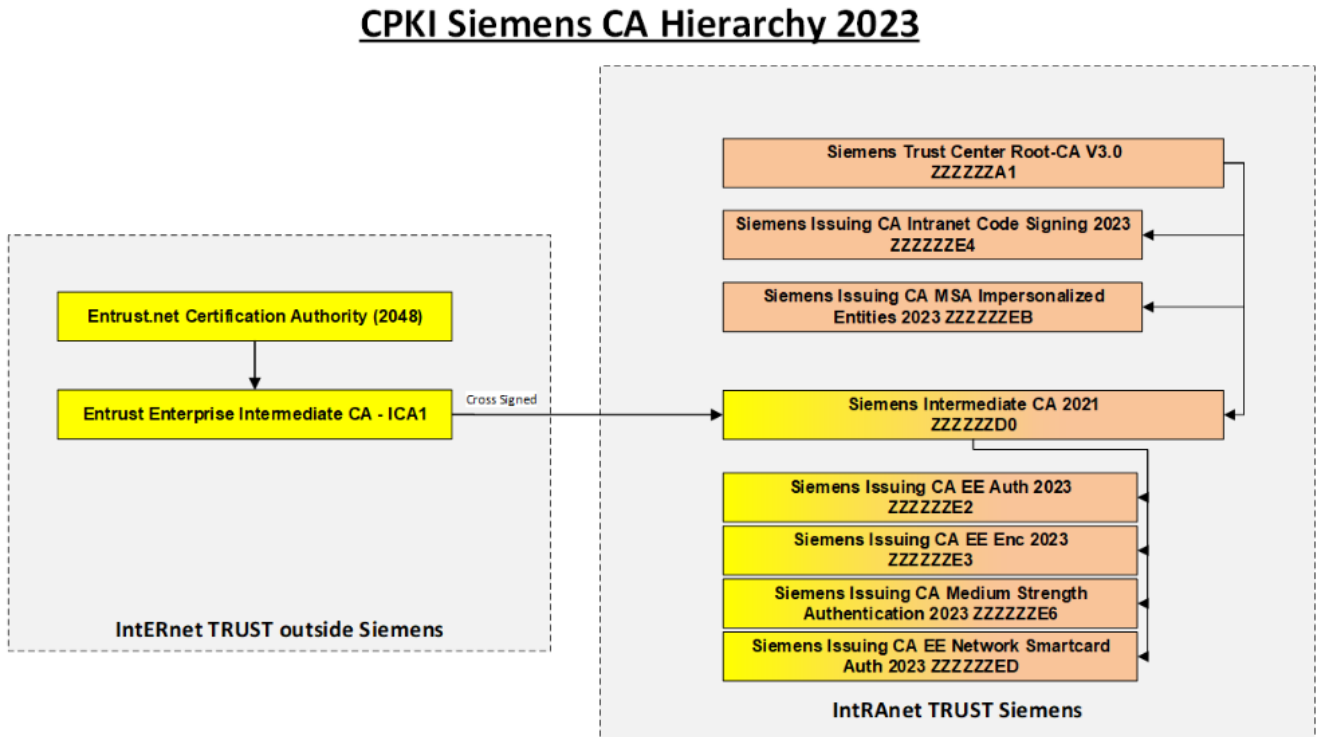


Figure 1: Siemens PKI Hierarchy 2023

## 2 Siemens Root CA V3.0

### 2.1 Siemens Trust Center Root CA V3.0 2016

Contents	Value
Subject Distinguished Name (DN)	CN=Siemens Root CA V3.0 2016 OU=Siemens Trust Center SERIALNUMBER =ZZZZZA1 O=Siemens L=Muenchen SP=Bayern C=DE
Serial-Number	762907e3
Key Length	4096
Signature Algorithm	sha256withRSA
Issuer Distinguished Name (DN)	CN=Siemens Root CA V3.0 2016 OU=Siemens Trust Center SERIALNUMBER =ZZZZZA1 O=Siemens L=Muenchen SP=Bayern C=DE
Not Valid After:	06.06.2028
Authority Key Identifier	Include Authority Key Identifier
Subject Key Identifier	Include Subject Key Identifier
Key Usage <b>critical</b>	Key Cert Sign CRL Sign
Basic Constraints <b>critical</b>	Type=CA Path Length=nothing
Certificate Policies	2.5.29.32.0
	<a href="http://www.siemens.com/pki/">http://www.siemens.com/pki/</a>

### 3 Siemens Intermediate CA 2021

#### 3.1 Siemens Intermediate CA 2021

Contents	Value
Subject Distinguished Name (DN)	CN = Siemens Intermediate CA 2021 O = Siemens C = DE
	5119273643dfb6d51792779dbded5eb2
Key Length	4096
Signature Algorithm	sha256withRSA
Issuer Distinguished Name (DN)	CN=Siemens Root CA V3.0 2016 OU=Siemens Trust Center SERIALNUMBER =ZZZZZA1 O=Siemens L=Muenchen SP=Bayern C=DE
Not Valid After:	05.06.2028
Authority Information Access	ldap://al.siemens.net/CN=ZZZZZA1,L=PKI?cACertificate http://ah.siemens.com/pki?ZZZZZA1.crt ldap://al.siemens.com/uid=ZZZZZA1,o=Trustcenter?cACertificate http://ocsp.siemens.com
Authority Key Identifier	Include Authority Key Identifier
Subject Key Identifier	Include Subject Key Identifier
Key Usage <b>critical</b>	Key Cert Sign CRL Sign
Extended Key Usage	kp-clientAuth kp-emailProtection SmartCard Logon Encrypting File System File Recovery Bitlocker Drive Encryption
CRL Distribution Points	ldap://cl.siemens.net/CN=ZZZZZA1,L=PKI?authorityRevocationList http://ch.siemens.com/pki?ZZZZZA1.crl ldap://cl.siemens.com/uid=ZZZZZA1,o=Trustcenter?authorityRevocationList
Basic Constraints <b>critical</b>	Type=CA Path Length=1
Certificate Policies	2.23.140.1.5.3.1
	2.23.140.1.5.3.2
	2.23.140.1.5.3.3
	2.23.140.1.5.2.1
	2.23.140.1.5.2.2
	2.23.140.1.5.2.3
	1.3.6.1.4.1.4329.7
	https://www.siemens.com/pki/
	1.3.6.1.4.1.4329.7.2.2.3.1.1
	https://www.siemens.com/pki/
	1.3.6.1.4.1.4329.7.2.2.3.1.2
	https://www.siemens.com/pki/
	1.3.6.1.4.1.4329.7.2.2.3.1.3
https://www.siemens.com/pki/	
1.3.6.1.4.1.4329.7.2.2.4.1.1	
https://www.siemens.com/pki/	
1.3.6.1.4.1.4329.7.2.2.4.1.2	
https://www.siemens.com/pki/	

	1.3.6.1.4.1.4329.7.2.2.4.1.3
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.2.3.2.1
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.2.3.2.2
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.2.3.2.3
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.5
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.99
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>

# 4 Siemens Issuing CA's 2023

## 4.1 Siemens Issuing CA EE Auth 2023

Contents	Value
Subject Distinguished Name (DN)	CN=Siemens Issuing CA EE Auth 2023 SERIALNUMBER =ZZZZZE2 O=Siemens SP=Bayern C=DE
Serial-Number	7468ba9573e8c5f00ff3b79cbd624764
Key Length	4096
Signature Algorithm	sha256withRSA
Issuer Distinguished Name (DN)	CN=Siemens Root CA V3.0 2016 OU=Siemens Trust Center SERIALNUMBER =ZZZZZA1 O=Siemens L=Muenchen SP=Bayern C=DE
Not Valid After:	04.06.2028
Authority Information Access	<a href="http://ah.siemens.com/pki?ZZZZZD0.crt">http://ah.siemens.com/pki?ZZZZZD0.crt</a> <a href="http://ocsp.siemens.com">http://ocsp.siemens.com</a>
Authority Key Identifier	Include Authority Key Identifier
Subject Key Identifier	Include Subject Key Identifier
Key Usage <b>critical</b>	Key Cert Sign CRL Sign
Extended Key Usage	kp-clientAuth kp-emailProtection SmartCard Logon
CRL Distribution Points	<a href="http://ch.siemens.com/pki?ZZZZZD0.crl">http://ch.siemens.com/pki?ZZZZZD0.crl</a>
Basic Constraints <b>critical</b>	Type=CA Path Length=0
Certificate Policies	2.23.140.1.5.3.1
	2.23.140.1.5.3.2
	2.23.140.1.5.3.3
	2.23.140.1.5.2.1
	2.23.140.1.5.2.2
	2.23.140.1.5.2.3
	1.3.6.1.4.1.4329.7
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.2.3.2.1
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.2.3.1.1
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.2.4.1.1
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.2.3.2.2
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.2.3.1.2
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.2.4.1.2
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
1.3.6.1.4.1.4329.7.2.5	
<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>	
1.3.6.1.4.1.4329.99	
<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>	



## 4.2 Siemens Issuing CA EE Enc 2023

Contents	Value
Subject Distinguished Name (DN)	CN=Siemens Issuing CA EE Enc 2023 SERIALNUMBER =ZZZZZE3 O=Siemens SP=Bayern C=DE
Serial-Number	71e6323fb63184f49715d2330d086aa8
Key Length	4096
Signature Algorithm	sha256withRSA
Issuer Distinguished Name (DN)	CN=Siemens Root CA V3.0 2016 OU=Siemens Trust Center SERIALNUMBER =ZZZZZA1 O=Siemens L=Muenchen SP=Bayern C=DE
Not Valid After:	04.06.2028
Authority Information Access	<a href="http://ah.siemens.com/pki?ZZZZZD0.crt">http://ah.siemens.com/pki?ZZZZZD0.crt</a> <a href="http://ocsp.siemens.com">http://ocsp.siemens.com</a>
Authority Key Identifier	Include Authority Key Identifier
Subject Key Identifier	Include Subject Key Identifier
Key Usage <b>critical</b>	Key Cert Sign CRL Sign
Extended Key Usage	kp-emailProtection Encrypting File System File Recovery Bitlocker Drive Encryption
CRL Distribution Points	<a href="http://ch.siemens.com/pki?ZZZZZD0.crl">http://ch.siemens.com/pki?ZZZZZD0.crl</a>
Basic Constraints <b>critical</b>	Type=CA Path Length=0
Certificate Policies	2.23.140.1.5.3.1
	2.23.140.1.5.3.2
	2.23.140.1.5.3.3
	2.23.140.1.5.2.1
	2.23.140.1.5.2.2
	2.23.140.1.5.2.3
	1.3.6.1.4.1.4329.7
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.3.2.3
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.3.1.3
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.4.1.3
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
1.3.6.1.4.1.4329.7.2.5	
<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>	
1.3.6.1.4.1.4329.99	
<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>	

### 4.3 Siemens Issuing CA Intranet Code Signing 2023

Contents	Value
Subject Distinguished Name (DN)	CN=Siemens Issuing CA Intranet Code Signing 2023 OU=Siemens Trust Center SERIALNUMBER =ZZZZZE4 O=Siemens L=Muenchen SP=Bayern C=DE
Serial-Number	4226e532161606d8f6b47e13a57bc686
Key Length	4096
Signature Algorithm	sha256withRSA
Issuer Distinguished Name (DN)	CN=Siemens Root CA V3.0 2016 OU=Siemens Trust Center SERIALNUMBER =ZZZZZA1 O=Siemens L=Muenchen SP=Bayern C=DE
Not Valid After:	05.06.2028
Authority Information Access	ldap://al.siemens.net/CN=ZZZZZA1,L=PKI?cACertificate http://ah.siemens.com/pki?ZZZZZA1.crt ldap://al.siemens.com/uid=ZZZZZA1,o=Trustcenter?cACertificate http://ocsp.siemens.com
Authority Key Identifier	Include Authority Key Identifier
Subject Key Identifier	Include Subject Key Identifier
Key Usage <b>critical</b>	Key Cert Sign CRL Sign
Extended Key Usage	kp-codeSigning
CRL Distribution Points	ldap://cl.siemens.net/CN=ZZZZZA1,L=PKI?authorityRevocationList http://ch.siemens.com/pki?ZZZZZA1.crl ldap://cl.siemens.com/uid=ZZZZZA1,o=Trustcenter?authorityRevocationList
Basic Constraints <b>critical</b>	Type=CA Path Length=0
Certificate Policies	1.3.6.1.4.1.4329.7
	https://www.siemens.com/pki/
	1.3.6.1.4.1.4329.7.2.3.2.3
	https://www.siemens.com/pki/
	1.3.6.1.4.1.4329.7.2.5
	https://www.siemens.com/pki/
	1.3.6.1.4.1.4329.99
	https://www.siemens.com/pki/

## 4.4 Siemens Issuing CA Medium Strength Authentication 2023

Contents	Value
Subject Distinguished Name (DN)	CN = Siemens Issuing CA Medium Strength Authentication 2023 SERIALNUMBER = ZZZZZE6 O = Siemens S = Bayern C = DE
Serial-Number	7c052b64498efa09670951654986e099
Key Length	4096
Signature Algorithm	sha256withRSA
Issuer Distinguished Name (DN)	CN=Siemens Root CA V3.0 2016 OU=Siemens Trust Center SERIALNUMBER =ZZZZZA1 O=Siemens L=Muenchen SP=Bayern C=DE
Not Valid After:	04.06.2028
Authority Information Access	<a href="http://ah.siemens.com/pki?ZZZZZD0.crt">http://ah.siemens.com/pki?ZZZZZD0.crt</a> <a href="http://ocsp.siemens.com">http://ocsp.siemens.com</a>
Authority Key Identifier	Include Authority Key Identifier
Subject Key Identifier	Include Subject Key Identifier
Key Usage <b>critical</b>	Key Cert Sign CRL Sign
Extended Key Usage	kp-ClientAuth kp-emailProtection
CRL Distribution Points	<a href="http://ch.siemens.com/pki?ZZZZZD0.crl">http://ch.siemens.com/pki?ZZZZZD0.crl</a>
Basic Constraints <b>critical</b>	Type=CA Path Length=0
Certificate Policies	2.23.140.1.5.3.1
	2.23.140.1.5.3.2
	2.23.140.1.5.3.3
	2.23.140.1.5.2.1
	2.23.140.1.5.2.2
	2.23.140.1.5.2.3
	1.3.6.1.4.1.4329.7
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.3.2.3
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.3.1.3
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.4.1.3
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
1.3.6.1.4.1.4329.7.2.5	
<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>	
1.3.6.1.4.1.4329.99	
<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>	

## 4.5 Siemens Issuing CA MSA Impersonalized Entities 2023

Contents	Value
Subject Distinguished Name (DN)	CN=Siemens Issuing CA MSA Impersonalized Entities 2023 OU=Siemens Trust Center SERIALNUMBER = ZZZZZZEB O = Siemens L = Muenchen SP = Bayern C = DE
Serial-Number	6af0cec035b3b3748c2af52cb4d67dca
Key Length	4096
Signature Algorithm	sha256withRSA
Issuer Distinguished Name (DN)	CN=Siemens Root CA V3.0 2016 OU=Siemens Trust Center SERIALNUMBER=ZZZZZA1 O=Siemens L=Muenchen SP=Bayern C=DE
Not Valid After:	05.06.2028
Authority Information Access	ldap://al.siemens.net/CN=ZZZZZA1,L=PKI?cACertificate http://ah.siemens.com/pki?ZZZZZA1.crt ldap://al.siemens.com/uid=ZZZZZA1,o=Trustcenter?cACertificate http://ocsp.siemens.com
Authority Key Identifier	Include Authority Key Identifier
Subject Key Identifier	Include Subject Key Identifier
Key Usage <b>critical</b>	Key Cert Sign CRL Sign
Extended Key Usage	kp-ClientAuth
CRL Distribution Points	ldap://cl.siemens.net/CN=ZZZZZA1,L=PKI?authorityRevocationList http://ch.siemens.com/pki?ZZZZZA1.crl ldap://cl.siemens.com/uid=ZZZZZA1,o=Trustcenter?authorityRevocationList
Basic Constraints <b>critical</b>	Type=CA Path Length=0
Certificate Policies	1.3.6.1.4.1.4329.7
	https://www.siemens.com/pki/
	1.3.6.1.4.1.4329.7.2.3.2.3
	https://www.siemens.com/pki/
	1.3.6.1.4.1.4329.7.2.5
	https://www.siemens.com/pki/
	1.3.6.1.4.1.4329.99
	https://www.siemens.com/pki/

## 4.6 Siemens Issuing CA EE Network Smartcard Auth 2023

Contents	Value
Subject Distinguished Name (DN)	CN = Siemens Issuing CA EE Network Smartcard Auth 2023 SERIALNUMBER = ZZZZZED O = Siemens S = Bayern C = DE
Serial-Number	48017cf4b6848d1723c3ee6faf9d1bc3
Key Length	4096
Signature Algorithm	sha256withRSA
Issuer Distinguished Name (DN)	CN=Siemens Root CA V3.0 2016 OU=Siemens Trust Center SERIALNUMBER=ZZZZZA1 O=Siemens L=Muenchen SP=Bayern C=DE
Not Valid After:	04.06.2028
Authority Information Access	<a href="http://ah.siemens.com/pki?ZZZZZD0.crt">http://ah.siemens.com/pki?ZZZZZD0.crt</a> <a href="http://ocsp.siemens.com">http://ocsp.siemens.com</a>
Authority Key Identifier	Include Authority Key Identifier
Subject Key Identifier	Include Subject Key Identifier
Key Usage <b>critical</b>	Key Cert Sign CRL Sign
Extended Key Usage	kp-clientAuth kp-emailProtection SmartCard Logon
CRL Distribution Points	<a href="http://ch.siemens.com/pki?ZZZZZD0.crl">http://ch.siemens.com/pki?ZZZZZD0.crl</a>
Basic Constraints <b>critical</b>	Type=CA Path Length=0
Certificate Policies	2.23.140.1.5.3.1
	2.23.140.1.5.3.2
	2.23.140.1.5.3.3
	2.23.140.1.5.2.1
	2.23.140.1.5.2.2
	2.23.140.1.5.2.3
	1.3.6.1.4.1.4329.7
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.2.3.1.1
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.2.4.1.1
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
	1.3.6.1.4.1.4329.7.2.5
	<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>
1.3.6.1.4.1.4329.99	
<a href="https://www.siemens.com/pki/">https://www.siemens.com/pki/</a>	