



# Certificate Enrollment

# Certificate **Enrollment Proxy**

- Integrate Non-Microsoft CA with **Active Directory**
- Manual or autoenrollment
- Key archival (KRA)
- Flexible migration to other CA
- No client software installation required



# Automated, reliable, manageable

# **Windows Certificates**

Windows Client and Server operating systems and many Windows applications support X.509 certificates. A Windows enterprise CA issues certificates to domain members either by manual requests or by autoenrollment.

#### **Non-Microsoft CA**

There are environments, where certificates have to be issued to Windows Domains by a non-Windows CA. Either by using an Open Source or vendor CA product or by an external MPKI SaaS provider. By this also globally accertificates cepted S/MIME may be enrolled from a public CA. Mechanisms are needed seamlessly integrate such CA services with an existing Windows Domain.

# **Certificate Enrollment Proxy**

Autoenrollment with a non-Microsoft CA

Windows between the Clients and the external issuing CA. The certEP acts as a Windows enterclients.

requests, enhances them with the required attributes and forwards them to the the issued certificate from with one certEP instance. the CA, it is passed to the The certEP is installed as requesting Windows client. Additionally, the certEP supports key archival, e.g. for S/MIME certficates. Private keys can be archived locally by encrypting them by KRA certificates or remotely at the CA. The certEP uses Microsoft certificate templates to process certificate requests.

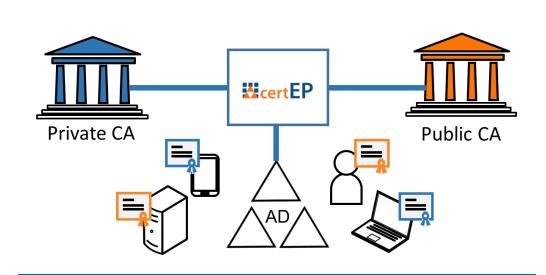
# Integrating the certEP

The Secardeo Certificate The Secardeo Certificate Enrollment Proxy provides Enrollment Proxy (certEP) HTTP, REST and CMP is a component that sits interfaces for transmitting requests to the issuing CA and it returns the issued certificate to the client. SSL Client Authentication prise CA towards Windows using HTTPS is supported for this. A series of CA It receives their certificate backends is already provided in the product. Integration with further CAs is possible. You can also issuing CA, After receiving connect to multiple CAs

a Windows service and it is seamlessly integrated with Active Directory. It supports IIS, NDES and CEP/CES enrollment frontends.

By this, also many MDM systems may be connected with a non-Microsoft CA.

Secardeo GmbH Hohenadlstr. 4 D-85737 Ismaning Tel. +49 89 18 93 58 90 Fax +49 89 18 93 58 99 info@secardeo.com www.secardeo.com



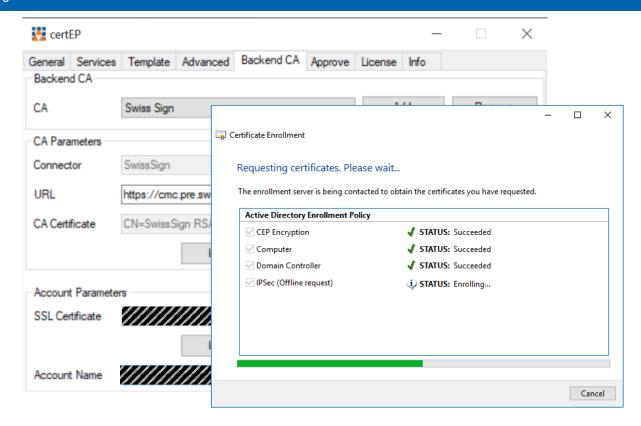


Secardeo certEP is a Certificate Enrollment Proxy for providing X.509 certificates from a non-Microsoft CA using Windows certificate enrollment. The certEP offers the following features:

- Native manual and autoenrollment of certificates in Windows Domains via DCOM (WCCE)
- Optional server based autoenrollment for CAs that don't support MS Template extension
- SCEP enrollment via NDES, HTTP enrollment via IIS or via CEP/CES for non-domain clients
- Local key archival using Key Recovery Agent certificates or remote key archival at the CA
- Certificate event audit and notifications
- Certificate request blocking and approval; certificate publishing and revocation
- Subject name configuration and composition for CN,GN,SN; support for MS SID extension
- Hardware Security Module (HSM) Support

The certEP Enterprise Edition additionally provides

- Multiple Backend CAs
- AD Cross-Forest Enrollment
- Log rotation



# **Operating System:**

- Windows Server 2016-2022

#### **Machine Requirements:**

- Disk Space: 100 MB
- DB Space: 50k per certificate
- Minimum Memory 4GB
- Minimum Cores 2

#### **Supported Databases:**

- MySQL Server v8.0 or higher
- Microsoft SQL Server 2016 or higher
- SQLite3

# **Supported Client OS:**

- Windows 10-11
- Windows Server 2016-2022

#### **Supported Templates:**

- v1-v5 Certificate Templates
- Custom Templates

# Standards:

- X.509 certificates RFC 5280
- PKCS#10 RFC 2986
- CMS with PKCS#10 RFC 3852
- CMC RFC 5272
- CMP RFC 4210 (subset)

# **Supported Frontends:**

- DCOM AD enrollment
- IIS Web enrollment
- NDES network enrollment
- CEP/CES

# **Supported MDMs:**

- Citrix XenMobile 10.3 or higher
- VMware Workspace ONE
- MobileIron Core 9 or higher
- Microsoft Intune

#### **Supported HSMs:**

Utimaco SecurityServer

# **Supported CA Backends:**

- AWS ACM PCA
- DigiCert CertCentral
- DigiCert Symauth
- Dogtag CA
- EJBCA
- GlobalSign Atlas
- Globaltrust
- Nexus CA
- OpenSSL CA
- OpenXPKI
- Red Hat Certificate Server
- Sectigo SCM
- SwissSign CA
- Windows AD CS
- Windows Standalone CA
- For further CAs, please contact us

