IDnow Trust Services.

TSA CA Certificate Profiles

IDnow Trust Services AB

Version 1.1

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IDnow Trust Services.

Document Information

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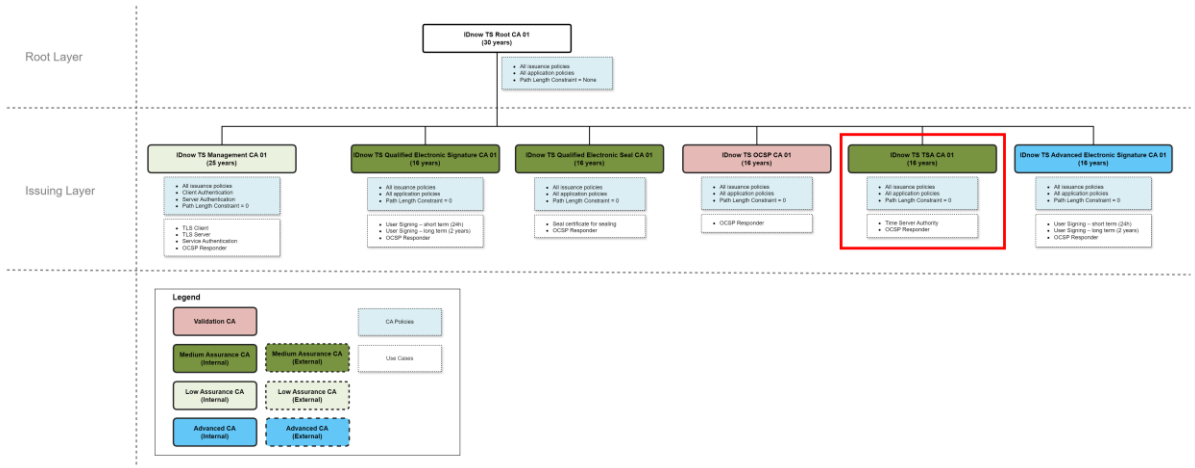
Change Log

Version	Version Date	Changes	Author
1.0	05.07.2024	Initial Version	Mateusz Kowalski
1.1	20.12.2024	Added OCSP Responder certificate information (chapter 2.3)	Mateusz Kowalski

1. Introduction

The document describes the structure of digital certificates of IDnow Trust Services AB.

This document contains information about the IDnow Trust Services TSA/Timestamp CA [XX] certificate profiles and related end entity and CRL ones (where [XX] is 01,02,03…).



2. Certificate Body

2.1 CA Certificate

CA Certificate			
Field	**Mandatory**	**Value**	**Description**
Certificate Data			
Serial Number	Yes	*<unique_serial_number>*	Unique serial number of the certificate.
Version	Yes	3	Certificate format version.
Signature Algorithm	Yes	sha512RSA	Signature algorithm in accordance to RFC 5280.
Subject DN			
Common Name (CN)	Yes	IDnow TS TSA CA [XX]	Certificate authority name, where [XX] is 01,02,03…
Organization (O)	Yes	IDnow Trust Services AB	Organization name.
Organization Identifier (ORG_ID)	Yes	SE5594699489	Identification of the organization different from the organization name. Certificates may include one or more semantics identifiers as specified in clause 5.1.4 of ETSI EN 319 412-1.
Country (C)	Yes	SE	Country code: SE - Sweden (2 character ISO 3166 country code).
Issuer Name			
Common Name (CN)	Yes	IDnow TS Root CA [XX]	Certificate authority name, where [XX] is 01,02,03…
Organization (O)	Yes	IDnow Trust Services AB	Organization name.
Organization Identifier (ORG_ID)	Yes	SE5594699489	Identification of the organization different from the organization name. Certificates may include one or more semantics identifiers as specified in clause 5.1.4 of ETSI EN 319 412-1.

Country (C)	Yes	SE	Country code: SE - Sweden (2 character ISO 3166 country code).
Validity			
Validity Period	Yes	16 years	Validity period of certificate from issuance date.
Not Before	Yes	*<issuance_date_and_time>*	First date of certificate validity.
Not After	Yes	*<issuance_date_and_time> + 16Y*	Last date of certificate validity.
Public Key Info			
Algorithm	Yes	RSA (4096 Bits)	RSA algorithm in accordance with RFC 4055.
Public Key	Yes	*<public_key>*	Public Key.

Extensions			
Extension	**Values and Limitations**	**Criticality**	**Mandatory**
Key Usage	Certificate Signing (Off-line CRL Signing) CRL Signing (06)	Critical	Yes
Basic Constraints	Subject Type=CA Path Length Constraint=0	Critical	Yes
Subject Key Identifier	SHA-1 hash of the public key	Non-critical	Yes
Certificate Policies	Certificate Policy [1]: PolicyIdentifier: 1.3.6.1.4.1.61867.2.1.1.1.1 PKIX CPS Pointer Qualifier (1.3.6.1.5.5.7.2.1) =CPS Pointer: https://trust-services.io/repository/Practice_Statement_IDnowTrustServicesAB.pdf	Non-critical	Yes
Authority Key Identifier	SHA-1 hash of the public key	Non-critical	Yes
Authority Information Access	Authority Information Access [1]: Access Method: CA Issuers (1.3.6.1.5.5.7.48.2) Access Location: URI: http://ca.trust-services.io/rootca[XX].cer	Non-critical	Yes
CRL Distribution Points	CRL Distribution Point [1]: Distribution Point Name: Full Name:	Non-critical	Yes

	URI: http://crl.trust-services.io/rootca[XX].crl		

2.2 Timestamp / TSA Certificate

Timestamp / TSA Certificate			
Field	**Mandatory**	**Value**	**Description**
Certificate Data			
Serial Number	Yes	*<unique_serial_number>*	Unique serial number of the certificate.
Version	Yes	3	Certificate format version.
Signature Algorithm	Yes	sha512RSA	Signature algorithm in accordance to RFC 5280.
Subject DN			
Common Name (CN)	Yes	IDnow TS Timestamp [XX]	End certificate common name, where [XX] is 01,02,03…
Organization (O)	Yes	IDnow Trust Services AB	Organization name.
Organization Identifier (ORG_ID)	Yes	SE5594699489	Identification of the organization different from the organization name. Certificates may include one or more semantics identifiers as specified in clause 5.1.4 of ETSI EN 319 412-1.
Country (C)	Yes	SE	Country code: SE - Sweden (2 character ISO 3166 country code).
Issuer Name			
Common Name (CN)	Yes	IDnow TS TSA CA [XX]	Certificate authority name, where [XX] is 01,02,03…
Organization (O)	Yes	IDnow Trust Services AB	Organization name.
Organization Identifier (ORG_ID)	Yes	SE5594699489	Identification of the organization different from the organization name. Certificates may include one or more semantics identifiers as specified in clause 5.1.4 of ETSI EN 319 412-1.

Country (C)	Yes	SE	Country code: SE - Sweden (2 character ISO 3166 country code).
Validity			
Validity Period	Yes	8 years	Validity period of certificate from issuance date.
Not Before	Yes	*<issuance_date_and_time>*	First date of certificate validity.
Not After	Yes	*<issuance_date_and_time> + 8Y*	Last date of certificate validity.
Public Key Info			
Algorithm	Yes	RSA (3072 - 8192 Bits)	RSA algorithm in accordance with RFC 4055.
Public Key	Yes	*<public_key>*	Public Key.
Extensions			

Extension	**Values and Limitations**	**Criticality**	**Mandatory**
Key Usage	Digital Signature	Critical	Yes
Extended Key Usage	Time Stamping	Critical	Yes
Basic Constraints	Subject Type=End Entity Path Length Constraint=None	Critical	Yes
Subject Key Identifier	SHA-1 hash of the public key	Non-critical	Yes
Certificate Policies	Certificate Policy [1]: PolicyIdentifier: 1.3.6.1.4.1.61867.2.1.1.1.1 PKIX CPS Pointer Qualifier (1.3.6.1.5.5.7.2.1) =CPS Pointer: https://trust-services.io/repository/Practice_Statement_IDnowTrustServicesAB.pdf	Non-critical	Yes
Extensions	Baseline time-stamp policy [1]: (0.4.0.2023.1.1)	Non-critical	Yes
Authority Key Identifier	SHA-1 hash of the public key	Non-critical	Yes
Authority Information Access	Authority Information Access [1]: Access Method: CA Issuers (1.3.6.1.5.5.7.48.2) Access Location: URI: http://ca.trust-services.io/tsaca[XX].cer Authority Information Access [2]: Access Method: OCSP (1.3.6.1.5.5.7.48.1)	Non-critical	Yes

	Access Location: URI: http://ocsp.trust-services.io		
CRL Distribution Points	CRL Distribution Point [1]: Distribution Point Name: Full Name: URI: http://crl.trust-services.io/tsaca[XX].crl	Non-critical	Yes

2.3 OCSP Certificate

OCSP Certificate			
Field	**Mandatory**	**Value**	**Description**
Certificate Data			
Serial Number	Yes	*<unique_serial_number>*	Unique serial number of the certificate.
Version	Yes	3	Certificate format version.
Signature Algorithm	Yes	sha512RSA	Signature algorithm in accordance to RFC 5280.
Subject DN			
Common Name (CN)	Yes	IDnow TS TSA OCSP	End certificate common name
Organization (O)	Yes	IDnow Trust Services AB	Organization name.
Organization Identifier (ORG_ID)	Yes	SE5594699489	Identification of the organization different from the organization name. Certificates may include one or more semantics identifiers as specified in clause 5.1.4 of ETSI EN 319 412-1.
Country (C)	Yes	SE	Country code: SE - Sweden (2 character ISO 3166 country code).
Issuer Name			
Common Name (CN)	Yes	IDnow TS TSA CA [XX]	Certificate authority name, where [XX] is 01,02,03…
Organization (O)	Yes	IDnow Trust Services AB	Organization name.
Organization Identifier (ORG_ID)	Yes	SE5594699489	Identification of the organization different from the organization name. Certificates may include one or more semantics identifiers as specified in clause 5.1.4 of ETSI EN 319 412-1.
Country (C)	Yes	SE	Country code: SE - Sweden (2 character ISO 3166 country code).

Validity			
Validity Period	Yes	1 year	Validity period of certificate from issuance date.
Not Before	Yes	*<issuance_date_and_time>*	First date of certificate validity.
Not After	Yes	*<issuance_date_and_time> + 1Y*	Last date of certificate validity.
Public Key Info			
Algorithm	Yes	RSA (3072 - 8192 Bits)	RSA algorithm in accordance with RFC 4055.
Public Key	Yes	*<public_key>*	Public Key.
Extensions			
Extension	**Values and Limitations**	**Criticality**	**Mandatory**
Key Usage	Digital Signature	Critical	Yes
Extended Key Usage	OCSP Signer	Non-critical	Yes
Basic Constraints	Subject Type=End Entity Path Length Constraint=None	Critical	Yes
Subject Key Identifier	SHA-1 hash of the public key	Non-critical	Yes
OSCP No Check	id-pkix-ocsp-nocheck (1.3.6.1.5.5.7.48.1.5)	Non-critical	Yes
Certificate Policies	Certificate Policy [1]: PolicyIdentifier: 1.3.6.1.4.1.61867.2.1.1.1.1 PKIX CPS Pointer Qualifier (1.3.6.1.5.5.7.2.1) =CPS Pointer: https://trust-services.io/repository/Practice_Statement_IDnowTrustServicesAB.pdf	Non-critical	Yes
Authority Key Identifier	SHA-1 hash of the public key	Non-critical	Yes

3. CRL

CRL			
Field	**Mandatory**	**Value**	**Description**
CRL Data			
Delta CRL	Yes	No	
Immediate Issue	Yes	Yes	
CRL Build Frequency	Yes	1 / week	
Format	Yes	DER	
Signature Algorithm	Yes	sha512RSA	Signature algorithm in accordance to RFC 5280.
Issuer Name			
Common Name (CN)	Yes	IDnow TS TSA CA [XX]	Certificate authority name, where [XX] is 01,02,03…
Organization (O)	Yes	IDnow Trust Services AB	Organization name.
Organization Identifier (ORG_ID)	Yes	SE5594699489	Identification of the organization different from the organization name. Certificates may include one or more semantics identifiers as specified in clause 5.1.4 of ETSI EN 319 412-1.
Country (C)	Yes	SE	Country code: SE - Sweden (2 character ISO 3166 country code).
Extensions			
Extension	**Values and Limitations**	**Criticality**	**Mandatory**
CRL Distribution Points	http://crl.trust-services.io/tsaca[XX].crl	Non-critical	Yes