

Time-Stamping Authority Certificate Profile

Profiles and parameters for the Time-Stamping Authority

This document defines the qualified certificate profiles used by Simplifi as a Qualified Trust Service Provider (QTSP). It covers the structure

and parameters for the Time-Stamping Authority certificate.

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1. Introduction

The document describes profile for certificates for the Time Stamping Authority certificate and the associated CRL profile.

2. Technical profile of certificate

Certificate is compiled in accordance with the X.509 version 3, IETF RFC 5280, ETSI EN 319 412-2 and ETSI EN 319 411-2

3. Certificate body

3.1. TSA Profile

Certificates for time-stamping service unit			
Field	Mandatory	Value	Description
Certificate data			
Serial number	Yes	<unique_serial_number>	Unique random assigned by CA
Version	Yes	3	
Signature Algorithm	Yes	SHA512	Signature algorithm in accordance to RFC 5280.
Issuer DN			
Common Name (CN)	Yes	Simplifi Qualified CA Class 3 [XX]	Certificate authority name, where [XX] is G1,G2,G3...
Organization (O)	Yes	Simplifi	Organization name
Organization Identifier (ORGID)	Yes	VATRO-45938180	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	RO	Country code: RO – Romania (2 character ISO 3166 country code)
Subject DN			
Common Name (CN)	Yes	Simplifi TSU G1	Name of time-stamping service unit
Country (C)	Yes	RO	Country code:RO – Romania (2 character ISO 3166 country code)
Organization (O)	Yes	SIMPLIWORKS SRL	Organization name

Organization Identifier (ORGID)	Yes	VATRO-45938180	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.
Validity			
Validity period	Yes	5 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> + 5 years	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			
Extensions	Values and limitations	Criticality	Mandatory
Key Usage	Digital Signature	Critical	Yes
Extended Key Usage	Time Stamping	Critical	Yes
Basic Constraints	Subject Type= End Entity	Critical	Yes
Subject Key Identifier	160-bit SHA-1 hash (Key ID)	Non-critical	Yes
Certificate Policies	Certificate Policy [1]: PolicyIdentifier: 1.3.6.1.4.1.63578.1.1.1 CPS URI: http://simplifi.ro/policie	Non-critical	Yes
Authority Key Identifier	160-bit SHA-1 hash (Key ID)	Non-critical	Yes
Authority Information Access	Method #1: CA issuer: http://simplifi.ro/pki/Simplifi_Qualified_CA_Classes_3_G1.crt Method #2: OCSP:	Non-critical	Yes

	http://simplifi.ro/ocsp		
CRL Distribution Points	http://simplifi.ro/pki/Simplifi_Qualified_CA_Class_3_G1.crl	Non-critical	Yes

3.2. CRL Profile

CRL			
Field	Mandatory	Value	Description
CRL data			
Version	Yes	2	CRL format version pursuant to X.509.
Signature Algorithm	Yes	SHA512	Signature algorithm in accordance to RFC 5280.
Expire Period	Yes	7 days	Time interval during which CRL is valid.
Issue Interval	Yes	1 day	Time interval during which CRL is generated and published
Overlap Time	Yes	0 minutes	Time interval during which both old and new CRLs are valid.
Issuer DN			
Common Name (CN)	Yes	Simplifi Qualified CA Class 3 G1	Certificate authority name
Organization (O)	Yes	SIMPLIWORKS SRL	Organization name
		VATRO-45938180	Identification of the organization different from the organization name.
Organization Identifier (ORGID)	Yes		Certificates may include one or more semantics identifiers as specified in clause 5.1.4 of ETSI EN 319 412-1.
Country (C)	Yes	RO	Country code: RO – Romania (2 character ISO 3166 country code)
Extensions			
Extensions	Values and limitations	Criticality	Mandatory
Authority Key Identifier	160-bit SHA-1 hash (Key ID)	Non-critical	Yes
CRL Number	Digit starts from number 1	Non-critical	Yes