

# **SLOVENSKI STANDARD** SIST EN 319 412-5 V2.4.1:2023

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#### Elektronski podpisi in infrastruktura (ESI) - Profili potrdil - 5. del: Izjave QC

Electronic Signatures and Infrastructures (ESI) - Certificate Profiles - Part 5: **QCStatements** 

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# ETSI EN 319 412-5 V2.4.1 (2023-09)



# Electronic Signatures and Infrastructures (ESI); Certificate Profiles; Part 5: QCStatements

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# Contents

Intell	ectual Property Rights	4
Forev	word	4
Moda	al verbs terminology	4
Intro	duction	5
1	Scope	6
2	References	6
2.1	Normative references	
2.2	Informative references	
3 3.1	Definition of terms, symbols, abbreviations and notations	
3.1 3.2	TermsSymbols	
3.3	Abbreviations	
3.4	Notations	8
4	Oualified certificate statements	8
4.1	General requirements	
4.2	QCStatements claiming compliance with specific legislation	
4.2.1	QCStatement claiming that the certificate is a EU qualified certificate or a certificate being	
	qualified within a defined legal framework from an identified country or set of countries	
4.2.2	QCStatement claiming that the private key related to the certified public key resides in a QSCD	
4.2.3 4.2.4	QCStatement claiming that the certificate is a certificate of a particular type QcStatement stating the country or set of countries under the legislation of which the certificate is	9
4.2.4	issued as a qualified certificate	10
4.3	Generic QCStatements	
4.3.1	Introduction	
4.3.2		
4.3.3	QCStatement indicating the duration of the retention period of material information	
4.3.4	QCStatement regarding location of PKI Disclosure Statements (PDS)	11
5	Requirements on QCStatements in EU qualified certificates	12
Anne	ex A (informative): Relationship with the Regulation (EU) No 910/2014	-5132-
A.1	EU qualified certificates for electronic signatures	
A.2	EU qualified certificates for electronic seals	
A.3	EU qualified certificates for website authentication	15
Anne	ex B (normative): ASN.1 declarations	16
Anne	ex C (informative): Change History	18
	ry	
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### Foreword

### rien Standards

This European Standard (EN) has been produced by ETSI Technical Committee Electronic Signatures and Infrastructures (ESI).

The present document is part 5 of multi-part deliverable covering the Certificate Profiles. Full details of the entire series can be found in part 1 [i.1].

The present document was previously published as ETSI TS 101 862 [i.4].

National transposition dates	
Date of adoption of this EN:	21 September 2023
Date of latest announcement of this EN (doa):	31 December 2023
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 June 2024
Date of withdrawal of any conflicting National Standard (dow):	30 June 2024

## Modal verbs terminology

In the present document "shall", "shall not", "should", "should not", "may", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the <u>ETSI Drafting Rules</u> (Verbal forms for the expression of provisions).

"must" and "must not" are NOT allowed in ETSI deliverables except when used in direct citation.

## Introduction

ITU and ISO issued standards for certification of public keys in Recommendation ITU-T X.509 | ISO/IEC 9594-8 [i.7] which are used for the security of communications and data for a wide range of electronic applications.

The IETF qualified certificate profile, IETF RFC 3739 [2] defines an extension to X.509 certificates, the qcStatements extension, which can include statements relevant for qualified certificates. IETF RFC 3739 [2] defines qualified certificates in a general context as "a certificate whose primary purpose is to identify a person with a high level of assurance, where the certificate meets some qualification requirements defined by an applicable legal framework". The use of IETF RFC 3739 [2] qcStatements in the present document goes beyond the scope of the RFC which is directed at natural persons only.

The qcStatements certificate extension can contain any statement by the certificate issuer that can be useful to the relying party in determining the applicability of the certificate for an intended usage. Such statement can be a declaration that the certificate fulfils specific legal requirements for qualified certificates according to a defined legal framework.

The present document is aiming to meet the general requirements of the international community to provide trust and confidence in electronic transactions including, amongst others, applicable requirements from Regulation (EU) No 910/2014 [i.8] Annexes I, III and IV.

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# 1 Scope

The present document defines specific QCStatement for the qcStatements extension as defined in IETF RFC 3739 [2], clause 3.2.6, including requirements for their use in EU qualified certificates. Some of these QCStatements can be used for other forms of certificate.

The QCStatements defined in the present document can be used in combination with any certificate profile, either defined in ETSI EN 319 412-2 [i.2], ETSI EN 319 412-3 [i.5] and ETSI EN 319 412-4 [i.6], or defined elsewhere.

The QCStatements defined in clause 4.3 can be applied to regulatory environments outside the EU. Other requirements specified in clause 4 are specific to Regulation (EU) No 910/2014 [i.8] but may be adapted for other regulatory environments.

# 2 References

#### 2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <a href="https://docbox.etsi.org/Reference">https://docbox.etsi.org/Reference</a>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are necessary for the application of the present document.

- [1] <u>ISO 639-1:2002</u>: "Codes for the representation of names of languages -- Part 1: Alpha-2 code".
- [2] <u>IETF RFC 3739</u>: "Internet X.509 Public Key Infrastructure: Qualified Certificates Profile".
- [3] Recommendations ITU-T X.680, X.681, X.682, X.683: "Information technology Abstract Syntax Notation One (ASN.1)".ST EN 319 412-5 V2.4.1:2023

1ttps://standards.iteh.ai/ca. [4] ISO 4217: "Currencies codes".

- [5] <u>IETF RFC 2818</u>: "HTTP Over TLS".
- [6] <u>ISO 3166-1</u>: "Codes for the representation of names of countries and their subdivisions --Part 1: Country codes".

#### 2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] ETSI EN 319 412-1: "Electronic Signatures and Infrastructures (ESI); Certificate Profiles; Part 1: Overview and common data structures".
- [i.2] ETSI EN 319 412-2: "Electronic Signatures and Infrastructures (ESI); Certificate Profiles; Part 2: Certificate Profile for certificates issued to natural persons".

[i.3]	Directive 1999/93/EC of the European Parliament and of the Council of 13 December 1999 on a Community framework for electronic signatures.
[i.4]	ETSI TS 101 862: "Qualified Certificate profile".
[i.5]	ETSI EN 319 412-3: "Electronic Signatures and Infrastructures (ESI); Certificate Profiles; Part 3: Certificate Profile for certificates issued to legal persons".
[i.6]	ETSI EN 319 412-4: "Electronic Signatures and Infrastructures (ESI); Certificate Profiles; Part 4: Certificate profile for web site certificates".
[i.7]	Recommendation ITU-T X.509   ISO/IEC 9594-8: "Information technology - Open systems interconnection - The Directory: Public-key and attribute certificate frameworks".
[i.8]	<u>Regulation (EU) No 910/2014</u> of the European Parliament and of the Council of 23 July 2014 on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/EC.
[i.9]	IETF RFC 5280: "Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile".
[i.10]	ETSI EN 319 411-1: "Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates; Part 1: General requirements".
[i.11]	CA/Browser Forum: "Baseline Requirements for the Issuance and Management of Publicly- Trusted Certificates".
[i.12]	CA/Browser Forum: "Guidelines for The Issuance and Management of Extended Validation Certificates".

# 3 Definition of terms, symbols, abbreviations and notations

# **Document Preview**

#### 3.1 Terms

For the purposes of the present document, the terms given in ETSI EN 319 412-1 [i.1] and the following apply: **EU qualified certificate:** qualified certificate that is stated to be in accordance with Annex I, III or IV of the Regulation (EU) No 910/2014 [i.8] or Annex I of the Directive 1999/93/EC [i.3] whichever is in force at the time of issuance

QCStatement: statement for inclusion in a qcStatements certificates extension as specified in IETF RFC 3739 [2]

qualified electronic signature/seal creation device: As specified in Regulation (EU) No 910/2014 [i.8].

secure signature creation device: As specified in Directive 1999/93/EC [i.3].

### 3.2 Symbols

Void.

#### 3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

ASN.1	Abstract Syntax Notation One
CA	Certification Authority
CRL	Certificate Revocation List
EC	European Commission
EU	European Union

IETF	Internet Engineering Task Force
ISO	International Organization for Standardization
PDS	PKI Disclosure Statements
PKI	Public Key Infrastructure
QC	Qualified Certificate
QSCD	Qualified electronic Signature/Seal Creation Device
RFC	Request For Comments
URL	Uniform Resource Locator

#### 3.4 Notations

For the purposes of the present document, the notations given in ETSI EN 319 412-1 [i.1] apply.

# 4 Qualified certificate statements

#### 4.1 General requirements

QCS-4.1-01: The qcStatements extension shall be as specified in clause 3.2.6 of IETF RFC 3739 [2].

QCS-4.1-02: The qcStatements extension shall not be marked as critical.

The following clauses define a number of individual QCStatements to be included in the qcStatements extension.

QCS-4.1-03: The syntax of the defined statements shall comply with ASN.1 (Recommendations X.680 to X.683 [3]).

QCS-4.1-04: The complete ASN.1 module for all defined statements shall be as provided in Annex B. Annex B takes precedence over the ASN.1 definitions provided in the body of the present document, in case of discrepancy.

NOTE: This extension is not processed as part of IETF RFC 5280 [i.9] path validation and there are no security implications with accepting a certificate in a system that cannot parse this extension.

#### 4.2 QCStatements claiming compliance with specific

ps://standards.ite**legislation**ndards/sist/58d48471-c5c2-4b0c-ac33-989fdad91aa2/sist-en-319-412-5-v2-4-1-202

# 4.2.1 QCStatement claiming that the certificate is a EU qualified certificate or a certificate being qualified within a defined legal framework from an identified country or set of countries

This Qcstatement claims:

- either that the certificate is an EU qualified certificate that is issued according to Directive 1999/93/EC [i.3] or the Annex I, III or IV of the Regulation (EU) No 910/2014 [i.8] whichever is in force at the time of issuance; or
- ii) that the certificate is a certificate that is issued as qualified within a defined legal framework from an identified country or set of countries.

Syntax:

```
esi4-qcStatement-1 QC-STATEMENT ::= { IDENTIFIED BY id-etsi-qcs-QcCompliance }
```

id-etsi-qcs-QcCompliance OBJECT IDENTIFIER ::= { id-etsi-qcs 1 }

The precise meaning of this statement is enhanced by:

a) the QC type statement defined in clause 4.2.3 according to table 1; and