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

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ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - APE 7112B
Association à but non lucratif enregistrée à la
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Foreword

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

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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 [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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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.

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 in the [ETSI docbox](#).

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

- [1] [ISO 639:2023](#): "Code for individual languages and language groups".
- [2] [IETF RFC 3739](#): "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)".
- [4] Void.
- [5] [IETF RFC 2818](#): "HTTP Over TLS".
- [6] [ISO 3166-1](#): "Codes for the representation of names of countries and their subdivisions — Part 1: Country code".

2.2 Informative references

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The following referenced documents may be useful in implementing an ETSI deliverable or add to the reader's understanding, but are not required for conformance to the present document.

- [i.1] ETSI EN 319 412-1: "Electronic Signatures and Trust Infrastructures (ESI); Certificate Profiles; Part 1: Overview and common data structures".
- [i.2] ETSI EN 319 412-2: "Electronic Signatures and Trust 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 Trust 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] [Regulation \(EU\) No 910/2014](#) 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 Trust 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".
- [i.13] [Regulation \(EU\) 2024/1183](#) of the European Parliament and of the Council of 11 April 2024 amending Regulation (EU) No 910/2014 as regards establishing the European Digital Identity Framework.
- [i.14] [ISO 4217](#): "Codes for the representation of currencies".

3 Definition of terms, symbols, abbreviations and notations

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 Regulation (EU) No 910/2014 [i.8] or Annex I of 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
EEA	European Economic Area
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 ITU-T 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 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

This `qcstatement` claims:

- i) 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 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
- b) the QcCClegislation statement defined in clause 4.2.4 according to table 1A.

Table 1: esi4-qcStatement-1 meaning

QC type statement (esi4-qcStatement-6)	Meaning of this statement (esi4-qcStatement-1)
Absent	The certificate is issued for electronic signatures according to Directive 1999/93/EC [i.3] or to Annex I of Regulation (EU) No 910/2014 [i.8], or in accordance with another regulatory environment which use electronic signature with the same meaning.
Present	The certificate is issued: <ul style="list-style-type: none"> • either according to Annex I, III or IV of Regulation (EU) No 910/2014 [i.8] as of the types declared by the QC type statement in accordance with clause 4.2.3; or • according to another regulatory environment which use electronic signature, electronic seal or web site authentication with the same meaning.

Table 1A: esi4-qcStatement-1 meaning

QcCClegislation statement (esi4-qcStatement-7)	Meaning of this statement (esi4-qcStatement-1)
Absent	The certificate is issued in accordance with Directive 1999/93/EC [i.3] or with Regulation (EU) No 910/2014 [i.8].
Present	The certificate is issued in accordance with the regulatory environment in application in the country or set of countries identified by the country code declared by the QcCClegislation statement in accordance with clause 4.2.4.

QCS-4.2.1-01: A certificate that includes the esi4-qcStatement-1 statement with the aim to declare that it is an EU qualified certificate that is issued according to Directive 1999/93/EC [i.3] or the Annex I, III or IV of Regulation (EU) No 910/2014 [i.8] whichever is in force at the time of issuance:

- a) shall not include the QcCClegislation statement; and
- b) shall comply with all requirements defined in clause 5.

4.2.2 QCStatement claiming that the private key related to the certified public key resides in a QSCD

This QCstatement declares that the private key related to the certified public key resides in a Qualified Signature/Seal Creation Device (QSCD) according to Regulation (EU) No 910/2014 [i.8] or a secure signature creation device as defined in Directive 1999/93/EC [i.3].

Syntax:

```
esi4-qcStatement-4 QC-STATEMENT ::= { IDENTIFIED BY id-etsi-qcs-QcSSCD }
id-etsi-qcs-QcSSCD OBJECT IDENTIFIER ::= { id-etsi-qcs 4 }
```

4.2.3 QCStatement claiming that the certificate is a certificate of a particular type

This QCStatement declares that a certificate is issued as one and only one of the purposes of electronic signature, electronic seal or web site authentication.

When used in combination with the qcStatement as defined in clause 4.2.1, this QCStatement states that a qualified certificate, within a specific legislative context, such as Regulation (EU) No 910/2014 [i.8], is issued as one and only one of the purposes of electronic signature, electronic seal or web site authentication.

When not used in combination with the qcStatement as defined in clause 4.2.1, it indicates that a certificate is issued as one and only one of the purposes of electronic signatures, seals or web site authentication for "non-qualified certificates" within a legislative context, which may be indicated by the qcStatement defined in clause 4.2.4.

EXAMPLE: This QCStatement states that an EU qualified certificate is issued as one specific type according to Annex I, III or IV of Regulation (EU) No 910/2014 [i.8] when used in combination with the qcStatement as defined in clause 4.2.1 without the qcStatement defined in clause 4.2.4.

Syntax:

```
esi4-qcStatement-6 QC-STATEMENT ::= { SYNTAX QcType IDENTIFIED
  BY id-etsi-qcs-QcType }

id-etsi-qcs-QcType      OBJECT IDENTIFIER ::= { id-etsi-qcs 6 }

QcType ::= SEQUENCE SIZE (1) OF OBJECT IDENTIFIER (id-etsi-qct-esign | id-etsi-qct-eseal |
  id-etsi-qct-web | ...)

-- QC type identifiers
id-etsi-qct-esign  OBJECT IDENTIFIER ::= { id-etsi-qcs-QcType 1 }
-- Certificate for electronic signatures as defined in Regulation (EU) No 910/2014
id-etsi-qct-eseal  OBJECT IDENTIFIER ::= { id-etsi-qcs-QcType 2 }
-- Certificate for electronic seals as defined in Regulation (EU) No 910/2014
id-etsi-qct-web    OBJECT IDENTIFIER ::= { id-etsi-qcs-QcType 3 }
-- Certificate for website authentication as defined in Regulation (EU) No 910/2014
```

4.2.4 QCStatement stating the country or set of countries under the legislation of which the certificate is issued as a qualified certificate

This QCStatement identifies the country or set of countries under the legislation of which the certificate is issued as a qualified certificate.

QCS-4.2.4-01: If the certificate is issued according to Directive 1999/93/EC [i.3] or Regulation (EU) No 910/2014 [i.8], this QCStatement shall not be present.

Syntax:

```
esi4-qcStatement-7 QC-STATEMENT ::= { SYNTAX QcCClegislation IDENTIFIED BY id-etsi-qcs-
  QcCClegislation }
id-etsi-qcs-QcCClegislation OBJECT IDENTIFIER ::= { id-etsi-qcs 7 }
QcCClegislation ::= SEQUENCE OF CountryName
CountryName ::= PrintableString (SIZE (2)) (CONSTRAINED BY { -- ISO 3166-1 [6] alpha-2 codes only
-- })
```

4.2.5 QCStatement stating the country or set of countries under the legislation of which the QSCD was certified

This QCStatement declares that the private key related to the certified public key resides in a signature creation device recognized as qualified within a defined legal framework from an identified country, or set of countries, outside the European Union and outside the European Economic Area.

QCS-4.2.5-01: CountryName shall not have as value any code identifying:

- a country of the European Union (EU); or
- a country of the European Economic Area (EEA); or
- a group of EU or EEA countries; or
- the value of "EU".

Syntax:

```
esi4-qcStatement-9 QC-STATEMENT ::= { SYNTAX QcQSCDlegislation IDENTIFIED BY id-etsi-qcs-
QcQSCDlegislation }

id-etsi-qcs-QcQSCDlegislation OBJECT IDENTIFIER ::= { id-etsi-qcs 9 }
QcQSCDlegislation ::= SEQUENCE SIZE (1..MAX) OF CountryName
CountryName ::= PrintableString (SIZE (2)) (CONSTRAINED BY { -- ISO 3166-1 [6] alpha-2 codes only
-- })
```

4.3 Generic QCStatements

4.3.1 Introduction

QCStatements defined in the following clauses can be used with any applicable regulatory framework.

4.3.2 QCStatement regarding limits on the value of transactions

This QCStatement declares a limitation on the value of transaction for which a certificate can be used.

Syntax:

```
esi4-qcStatement-2 QC-STATEMENT ::= { SYNTAX QcEuLimitValue IDENTIFIED
BY id-etsi-qcs-QcLimitValue }

QcEuLimitValue ::= MonetaryValue

MonetaryValue ::= SEQUENCE {
    currency      Iso4217CurrencyCode,
    amount        INTEGER,
    exponent      INTEGER}
-- value = amount * 10^exponent

Iso4217CurrencyCode ::= CHOICE {
    alphabetic PrintableString (SIZE (3)), -- Recommended
    numeric    INTEGER (1..999) }
-- Alphabetic or numeric currency code as defined in ISO 4217
-- It is recommended that the Alphabetic form is used

id-etsi-qcs-QcLimitValue OBJECT IDENTIFIER ::= { id-etsi-qcs 2 }
```

QCS-4.3.2-01: The currency codes shall be as defined in ISO 4217 [i.14].

QCS-4.3.2-02: The alphabetic form of currency codes should be used.

NOTE 1: This QCStatement was aimed at supporting Directive 1999/93/EC [i.3] which declared that qualified certificates could declare "limits on the value of transactions for which the certificate can be used, if applicable". The definition of EU qualified certificates according to Regulation (EU) No 910/2014 [i.8] does not include any requirements on such declaration.

NOTE 2: It is outside the scope of this QCStatement to define how CA liability is affected by inclusion of this QCStatement. Relying parties can consult the certificate policy for further understanding of the implications of this statement.

4.3.3 QCStatement indicating the duration of the retention period of material information

Reliance on qualified certificates can depend on the existence of external information retained by the CA.

This QCStatement declares a retention period for material information relevant to the use of and reliance on a certificate, expressed as a number of years after the expiry date of the certificate.

Syntax:

```
esi4-qcStatement-3 QC-STATEMENT ::= { SYNTAX QcEuRetentionPeriod IDENTIFIED
BY id-etsi-qcs-QcRetentionPeriod }

QcEuRetentionPeriod ::= INTEGER

id-etsi-qcs-QcRetentionPeriod OBJECT IDENTIFIER ::= { id-etsi-qcs 3 }
```

NOTE: A significant aspect for an EU qualified certificate is that Regulation (EU) No 910/2014 [i.8] allows name forms in certificates, such as pseudonyms, which can require assistance from the CA or a relevant name registration authority, in order to identify the associated physical person in case of a dispute.

4.3.4 QCStatement regarding location of PKI Disclosure Statements (PDS)

This QCStatement holds URLs to PKI Disclosure Statements (PDS) in accordance with Annex A of ETSI EN 319 411-1 [i.10].

Syntax:

```
esi4-qcStatement-5 QC-STATEMENT ::= { SYNTAX QcEuPDS IDENTIFIED
BY id-etsi-qcs-QcPDS }

QcEuPDS ::= PdsLocations

PdsLocations ::= SEQUENCE SIZE (1..MAX) OF PdsLocation

PdsLocation ::= SEQUENCE {
    url          IA5String,
    language     PrintableString (SIZE(2)) } --ISO 639-1 language code

id-etsi-qcs-QcPDS OBJECT IDENTIFIER ::= { id-etsi-qcs 5 }
```

QCS-4.3.4-01: The language shall be as defined in ISO 639-1 [1].

QCS-4.3.4-02: Referenced PKI Disclosure Statements should be structured according to Annex A of ETSI EN 319 411-1 [i.10].

The signature of the certificate does not cover the content of the PDS and hence does not protect the integrity of the PDS which can change over time. End users trust in the accuracy of a PDS is therefore based on the mechanisms used to protect the authenticity of the PDS.

QCS-4.3.4-03: As a minimum, a URL to a PDS provided in this statement shall use the "https" (https://) scheme, IETF RFC 2818 [5] or later documents updating this specification.

4.3.5 QCStatement stating the used eIDAS/eIDAS2 Article 24. identification method

4.3.5.1 General requirements

This QCStatement states the eIDAS1 [i.8]/eIDAS2 [i.13] Article 24. identification method used for verification of the identity.

QCS-4.3.5-01: A qualified TSP may include this qcStatement in the issued qualified certificates.

QCS-4.3.5-02: [CONDITIONAL] If this qcStatement is included in the certificate, it shall contain the OID value corresponding to the identification used for identity verification of the certificate.

NOTE: It is not intended that these identifiers are used for migration from eIDAS 1 to eIDAS 2.

Syntax:

```
esi4-qcStatement-8 QC-STATEMENT ::= { SYNTAX QcIdentMethod IDENTIFIED
BY id-etsi-qcs-QcIdentMethod }

QcIdentMethod ::= SEQUENCE SIZE (1) OF OBJECT IDENTIFIER ( id-etsi-qct-eIDAS1-ab |
id-etsi-qct-eIDAS1-cd | id-etsi-qct-eIDAS2-acd | id-etsi-qct-eIDAS2-b | ...)

id-etsi-qcs-QcIdentMethod OBJECT IDENTIFIER ::= { id-etsi-qcs 8 }
```

4.3.5.2 void

4.3.5.3 Identification methods as defined in eIDAS Subsequent to eIDAS 2

The following identifiers can be used for Identification according to Regulation (EU) 910/2014 [i.8] Article 24 1 with amendment in Regulation (EU) 2024/1183 [i.13]:

- **Identification according to eIDAS2 [i.13] Article 24. paragraph 1a a) or c) or d)**

```
id-etsi-qct-eIDAS2-acd OBJECT IDENTIFIER ::= { id-etsi-qcs-QcIdentMethod 3 }
```

This identifier may be assigned a certificate of a qualified electronic signature or of a qualified electronic seal, issued in compliance with Regulation (EU) 2024/1183 Article 24.1a point (a), (c) or (d).

NOTE 1: A certificate of a qualified electronic signature or of a qualified electronic seal, issued in compliance with Regulation (EU) 2024/1183 Article 24.1a point (a), (c) or (d) can be used to subsequently issue a qualified certificate or a qualified electronic attestation of attributes.

- **Identification according to eIDAS2 Article 24. paragraph 1a b)**

```
id-etsi-qct-eIDAS2-b OBJECT IDENTIFIER ::= { id-etsi-qcs-QcIdentMethod 4 }
```

This identifier may be assigned a certificate of a qualified electronic signature or of a qualified electronic seal, issued in compliance with Regulation (EU) 2024/1183 Article 24.1a point (b).

NOTE 2: A certificate of a qualified electronic signature or of a qualified electronic seal, issued in compliance with Regulation (EU) 2024/1183 Article 24.1a point (b) cannot be used to subsequently issue a qualified certificate or a qualified electronic attestation of attributes.

5 Requirements on QCStatements in EU qualified certificates

QCS-5-01: EU qualified certificates shall include QCStatements in accordance with table 2.

The column "Presence" contains the specification of the presence of the statement as follows:

- **M:** Mandatory. The statement shall be present.
- **O:** Optional. The statement may be present.
- **X:** Forbidden. The statement shall not be present.

Table 2: Requirements on QCStatements

Clause	QCStatement	Presence	Additional requirements
4.2.1	esi4-qcStatement-1	M	
4.2.4	esi4-qcStatement-7	X	
4.2.2	esi4-qcStatement-4	O	When the certificate is issued as a certificate where the private key related to the certified public key resides in a qualified signature/seal creation device in accordance with Regulation (EU) No 910/2014 [i.8] or in a secure signature creation device as defined in Directive 1999/93/EC [i.3], this statement shall be present.
4.2.3	esi4-qcStatement-6	O	When the certificate is issued in accordance with Annex III or Annex IV of Regulation (EU) No 910/2014 [i.8], this statement shall be present.
4.3.2	esi4-qcStatement-2	O	
4.3.3	esi4-qcStatement-3	O	
4.3.4	esi4-qcStatement-5	O	<p>a) It shall provide at least one URL to a PDS in English. Other PDS documents in other languages may be referenced using this QCStatement provided that they provide information that corresponds to the information given in the referenced English PDS; and</p> <p>b) It shall not reference more than one PDS per language.</p>
4.3.5	esi4-qcStatement-8	O	
4.2.5	esi4-qcStatement-9	O	

Annex A (informative): Relationship with Regulation (EU) No 910/2014

A.1 EU qualified certificates for electronic signatures

Table A.1: Mapping with Annex I of Regulation (EU) No 910/2014 [i.8]

Requirement from Annex I in Regulation (EU) No 910/2014 [i.8]	Implementation according to the present document and referenced standards
(a) <i>an indication, at least in a form suitable for automated processing, that the certificate has been issued as a qualified certificate for electronic signature;</i>	Inclusion of QC statements defining this property as defined in clauses 4.2.1 and 4.2.3.
(b) <i>a set of data unambiguously representing the qualified trust service provider issuing the qualified certificates including at least, the Member State in which that provider is established and:</i> - <i>for a legal person: the name and, where applicable, registration number as stated in the official records,</i> - <i>for a natural person: the person's name;</i>	By information stored in the issuer field as defined in clause 4.2.3 of ETSI EN 319 412-2 [i.2].
(c) <i>at least the name of the signatory, or a pseudonym; if a pseudonym is used, it shall be clearly indicated;</i>	As defined in clause 4.2.4 of ETSI EN 319 412-2 [i.2].
(d) <i>electronic signature validation data that corresponds to the electronic signature creation data;</i>	The public key with the associated information provided in the certificate according to IETF RFC 5280 [i.9] and further profiled in clause 4.2.5 of ETSI EN 319 412-2 [i.2].
(e) <i>details of the beginning and end of the certificate's period of validity;</i>	The validity period according to IETF RFC 5280 [i.9].
(f) <i>the certificate identity code, which must be unique for the qualified trust service provider;</i>	The serial number of the certificate according to IETF RFC 5280 [i.9].
(g) <i>the advanced electronic signature or advanced electronic seal of the issuing qualified trust service provider;</i>	The digital signature of the issuer according to IETF RFC 5280 [i.9].
(h) <i>the location where the certificate supporting the advanced electronic signature or advanced electronic seal referred to in point (g) is available free of charge;</i>	Information provided in the Authority Info Access extension according to IETF RFC 5280 [i.9] and further profiled in clause 4.4.1 of ETSI EN 319 412-2 [i.2].
(i) <i>the location of the services that can be used to enquire about the validity status of the qualified certificate;</i>	Provided by information in the CRL Distribution point extension and/or the Authority Info Access extension according to IETF RFC 5280 [i.9] and further profiled in clauses 4.3.11 and 4.4.1 of ETSI EN 319 412-2 [i.2].
(j) <i>where the electronic signature creation data related to the electronic signature validation data is located in a qualified electronic signature creation device, an appropriate indication of this, at least in a form suitable for automated processing.</i>	Inclusion of an explicit statement defining this property as defined in clause 4.2.2.

A.2 EU qualified certificates for electronic seals

Table A.2: Mapping with Annex III of Regulation (EU) No 910/2014 [i.8]

Requirement from Annex III in Regulation (EU) No 910/2014 [i.8]	Implementation according to the present document and referenced standards
(a) <i>an indication, at least in a form suitable for automated processing, that the certificate has been issued as a qualified certificate for electronic seal;</i>	Inclusion of QC statements defining this property as defined in clauses 4.2.1 and 4.2.3.
(b) <i>a set of data unambiguously representing the qualified trust service provider issuing the qualified certificates including at least, the Member State in which that provider is established and:</i> <ul style="list-style-type: none"> - <i>for a legal person: the name and, where applicable, registration number as stated in the official records,</i> - <i>for a natural person: the person's name;</i> 	By information stored in the issuer field as defined in clause 4.2.3 of ETSI EN 319 412-2 [i.2].
(c) <i>at least the name of the creator of the seal and, where applicable, registration number as stated in the official records;</i>	As defined in clause 4.2.1 of ETSI EN 319 412-3 [i.5].
(d) <i>electronic seal validation data that corresponds to the electronic seal creation data;</i>	The public key with the associated information provided in the certificate according to IETF RFC 5280 [i.9] and further profiled in clause 4.2.5 of ETSI EN 319 412-2 [i.2].
(e) <i>details of the beginning and end of the certificate's period of validity;</i>	The validity period according to IETF RFC 5280 [i.9].
(f) <i>the certificate identity code, which must be unique for the qualified trust service provider;</i>	The serial number of the certificate according to IETF RFC 5280 [i.9].
(g) <i>the advanced electronic signature or advanced electronic seal of the issuing qualified trust service provider;</i>	The digital signature of the issuer according to IETF RFC 5280 [i.9].
(h) <i>the location where the certificate supporting the advanced electronic signature or advanced electronic seal referred to in point (g) is available free of charge;</i>	Information provided in the Authority Info Access extension according to IETF RFC 5280 [i.9] and further profiled in clause 4.4.1 of ETSI EN 319 412-2 [i.2].
(i) <i>the location of the services that can be used to enquire about the validity status of the qualified certificate;</i>	Provided by information in the CRL Distribution point extension and/or the Authority Info Access extension according to IETF RFC 5280 [i.9] and further profiled in clauses 4.3.11 and 4.4.1 of ETSI EN 319 412-2 [i.2].
(j) <i>where the electronic signature creation data related to the electronic signature validation data is located in a qualified electronic signature creation device, an appropriate indication of this, at least in a form suitable for automated processing.</i>	Inclusion of an explicit statement defining this property as defined in clause 4.2.2.

A.3 EU qualified certificates for website authentication

Table A.3: Mapping with Annex IV of Regulation (EU) No 910/2014 [i.8]

Requirement from Annex IV in Regulation (EU) No 910/2014 [i.8]	Implementation according to the present document and referenced standards
(a) <i>an indication, at least in a form suitable for automated processing, that the certificate has been issued as a qualified certificate for website authentication;</i>	Inclusion of an explicit statement defining this property as defined in clauses 4.2.1 and 4.2.3.
(b) <i>a set of data unambiguously representing the qualified trust service provider issuing the qualified certificates including at least, the Member State in which that provider is established and:</i> <ul style="list-style-type: none"> - <i>for a legal person: the name and, where applicable, registration number as stated in the official records,</i> - <i>for a natural person: the person's name;</i> 	By information stored in the issuer field as defined in clause 7.1.4.1 of CA/Browser Forum Baseline Requirements [i.11].
(c) <i>for natural persons: at least the name of the person to whom the certificate has been issued, or a pseudonym. If a pseudonym is used, it shall be clearly indicated; for legal persons: at least the name of the legal person to whom the certificate is issued and, where applicable, registration number as stated in the official records;</i>	By information about the subject as defined in clause 7.1.4.2.2 of CA/Browser Forum Baseline Requirements [i.11] and clause 7.1.4.2.1 of CA/Browser Extended Validation Requirements [i.12].
(d) <i>elements of the address, including at least city and State, of the natural or legal person to whom the certificate is issued and, where applicable, as stated in the official records;</i>	Information provided in the subject field in the certificate according to clause 7.1.4.2.2 of CA/Browser Forum Baseline Requirements [i.11] and clauses 7.1.4.2.5 and 7.1.4.2.7 of CA/Browser Extended Validation Requirements [i.12].
(e) <i>the domain name(s) operated by the natural or legal person to whom the certificate is issued;</i>	Information provided in the dNSName subject alternative name and means as defined in clause 7.1.4.2.1 of CA/Browser Forum Baseline Requirements [i.11] and clause 7.1.4.2.2 of CA/Browser Extended Validation Requirements [i.12].
(f) <i>details of the beginning and end of the certificate's period of validity;</i>	The validity period according to IETF RFC 5280 [i.9].
(g) <i>the certificate identity code, which must be unique for the qualified trust service provider;</i>	The serial number of the certificate according to IETF RFC 5280 [i.9].
(h) <i>the advanced electronic signature or advanced electronic seal of the issuing qualified trust service provider;</i>	The digital signature of the issuer according to IETF RFC 5280 [i.9].
(i) <i>the location where the certificate supporting the advanced electronic signature or advanced electronic seal referred to in point (h) is available free of charge;</i>	Information provided in the Authority Info Access extension according to IETF RFC 5280 [i.9] and further profiled in clause 7.1.2.3 c of CA/Browser Forum Baseline Requirements [i.11].
(j) <i>the location of the certificate validity status services that can be used to enquire as to the validity status of the qualified certificate.</i>	Provided by information in the CRL Distribution point extension and/or the Authority Info Access extension according to IETF RFC 5280 [i.9] and further profiled in clauses 7.1.2.3 b and c of CA/Browser Forum Baseline Requirements [i.11] and clause 7.1.4.3 point 4 of CA/Browser Extended Validation Requirements [i.12].

Annex B (normative):

ASN.1 declarations

```
ETSIQCstatementsMod { itu-t(0) identified-organization(4) etsi(0) id-qc-statements(194125) id-
mod(0) id-mod-qc-statements(0) v2(1) }
```

```
DEFINITIONS EXPLICIT TAGS ::=
```

```
BEGIN
```

```
-- EXPORTS All --
```

```
IMPORTS
```

```
QC-STATEMENT, qcStatement-2
```

```
FROM PKIXqualified97 { iso(1) identified-organization(3) dod(6)
internet(1) security(5) mechanisms(5) pkix(7) id-mod(0)
id-mod-qualified-cert-97(35) };
```

```
-- statements
```

```
-- EU qualified certificate declaration
```

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

```
-- Declaration of limit value
```

```
esi4-qcStatement-2 QC-STATEMENT ::= { SYNTAX QcEuLimitValue IDENTIFIED
BY id-etsi-qcs-QcLimitValue }
```

```
QcEuLimitValue ::= MonetaryValue
```

```
MonetaryValue ::= SEQUENCE {
```

```
currency      Iso4217CurrencyCode,
```

```
amount        INTEGER,
```

```
exponent      INTEGER }
```

```
-- value = amount * 10^exponent
```

```
Iso4217CurrencyCode ::= CHOICE {
```

```
alphabetic PrintableString (SIZE (3)), -- Recommended
```

```
numeric     INTEGER (1..999) }
```

```
-- Alphabetic or numeric currency code as defined in ISO 4217
```

```
-- It is recommended that the Alphabetic form is used
```

```
-- Retention period declaration
```

```
esi4-qcStatement-3 QC-STATEMENT ::= { SYNTAX QcEuRetentionPeriod IDENTIFIED
BY id-etsi-qcs-QcRetentionPeriod }
```

```
QcEuRetentionPeriod ::= INTEGER
```

```
-- SSCD and QSCD declaration
```

```
esi4-qcStatement-4 QC-STATEMENT ::= { IDENTIFIED BY id-etsi-qcs-QcSSCD }
```

```
-- PKI Disclosure statements
```

```
esi4-qcStatement-5 QC-STATEMENT ::= { SYNTAX QcEuPDS IDENTIFIED
BY id-etsi-qcs-QcPDS }
```

```
QcEuPDS ::= PdsLocations
```

```
PdsLocations ::= SEQUENCE SIZE (1..MAX) OF PdsLocation
```

```
PdsLocation ::= SEQUENCE {
```

```
url          IA5String,
```

```
language     PrintableString (SIZE(2)) } --ISO 639-1 language code
```

```
-- Certificate type
```

```
esi4-qcStatement-6 QC-STATEMENT ::= { SYNTAX QcType IDENTIFIED
BY id-etsi-qcs-QcType }
```

```
QcType ::= SEQUENCE SIZE (1) OF OBJECT IDENTIFIER (id-etsi-qct-esign | id-etsi-qct-eseal |
id-etsi-qct-web | ...)
```

```
-- country or set of countries under the legislation of which the certificate is issued as a
qualified certificate
```

```
esi4-qcStatement-7 QC-STATEMENT ::= { SYNTAX QcCClegislation IDENTIFIED
BY id-etsi-qcs-QcCClegislation }
```

```

QcCClegislation ::= SEQUENCE OF CountryName
CountryName ::= PrintableString (SIZE (2)) (CONSTRAINED BY { -- ISO 3166-1 [6] alpha-2 codes only
-- })

-- identification method used for verification of the identity according the
-- EU Regulation 910/2014 (eIDAS1) and according the amended EU Regulation 910/2014 (eIDAS2)

esi4-qcStatement-8 QC-STATEMENT ::= { SYNTAX QcIdentMethod IDENTIFIED
BY id-etsi-qcs-QcIdentMethod }

QcIdentMethod ::= SEQUENCE SIZE (1) OF OBJECT IDENTIFIER ( id-etsi-qct-eIDAS1-ab |
id-etsi-qct-eIDAS1-cd | id-etsi-qct-eIDAS2-acd | id-etsi-qct-eIDAS2-b | ...)

-- Non-EU QSCD

id-etsi-qcs-QcQSCDlegislation OBJECT IDENTIFIER ::= { id-etsi-qcs 9 }
QcQSCDlegislation ::= SEQUENCE SIZE (1..MAX) OF CountryName
CountryName ::= PrintableString (SIZE (2)) (CONSTRAINED BY { -- ISO 3166-1 [6] alpha-2 codes only

-- object identifiers
id-etsi-qcs OBJECT IDENTIFIER ::= { itu-t(0) identified-organization(4) etsi(0)
id-qc-profile(1862) 1 }

id-etsi-qcs-QcCompliance OBJECT IDENTIFIER ::= { id-etsi-qcs 1 }
id-etsi-qcs-QcLimitValue OBJECT IDENTIFIER ::= { id-etsi-qcs 2 }
id-etsi-qcs-QcRetentionPeriod OBJECT IDENTIFIER ::= { id-etsi-qcs 3 }
id-etsi-qcs-QcSSCD OBJECT IDENTIFIER ::= { id-etsi-qcs 4 }
id-etsi-qcs-QcPDS OBJECT IDENTIFIER ::= { id-etsi-qcs 5 }
id-etsi-qcs-QcType OBJECT IDENTIFIER ::= { id-etsi-qcs 6 }
id-etsi-qcs-QcCClegislation OBJECT IDENTIFIER ::= { id-etsi-qcs 7 }
id-etsi-qcs-QcIdentMethod OBJECT IDENTIFIER ::= { id-etsi-qcs 8 }
id-etsi-qcs-QcQSCDlegislation OBJECT IDENTIFIER ::= { id-etsi-qcs 9 }

-- QC type identifiers
id-etsi-qct-esign OBJECT IDENTIFIER ::= { id-etsi-qcs-QcType 1 }
-- Certificate for electronic signatures as defined in Regulation (EU) No 910/2014
id-etsi-qct-es seal OBJECT IDENTIFIER ::= { id-etsi-qcs-QcType 2 }
-- Certificate for electronic seals as defined in Regulation (EU) No 910/2014
id-etsi-qct-web OBJECT IDENTIFIER ::= { id-etsi-qcs-QcType 3 }
-- Certificate for website authentication defined in Regulation (EU) No 910/2014

-- QC IdentMethod identification type identifiers

-- Identification methods as defined in Regulation (EU) No 910/2014 (eIDAS1)

-- Identification according to eIDAS1 Article 24. paragraph 1 a) or b)
id-etsi-qct-eIDAS1-ab OBJECT IDENTIFIER ::= { id-etsi-qcs-QcIdentMethod 1 }

-- Identification according to eIDAS1 Article 24. paragraph 1 c) or d)
id-etsi-qct-eIDAS1-cd OBJECT IDENTIFIER ::= { id-etsi-qcs-QcIdentMethod 2 }

-- Identification methods as defined in the amended Regulation (EU) No 910/2014 (eIDAS2)

-- Identification according to eIDAS2 Article 24. paragraph 1a a) or c) or d)
id-etsi-qct-eIDAS2-acd OBJECT IDENTIFIER ::= { id-etsi-qcs-QcIdentMethod 3 }

-- Identification according to eIDAS2 Article 24. paragraph 1a b)
id-etsi-qct-eIDAS2-b OBJECT IDENTIFIER ::= { id-etsi-qcs-QcIdentMethod 4 }

-- supported statements

SupportedStatements QC-STATEMENT ::= {
qcStatement-2 |
esi4-qcStatement-1 | esi4-qcStatement-2 | esi4-qcStatement-3 |
esi4-qcStatement-4 | esi4-qcStatement-5 | esi4-qcStatement-6 | esi4-qcStatement-7 | esi4-
qcStatement-8 | esi4-qcStatement-9 | ...}

END

```

Annex C (informative): Change history

Date	Version	Information about changes
June 2017	2.2.0	CR002 (ESI(16)57_044) + ESI#59 modification Clause 4.2.3. First sentence modified to "This <code>QCStatement</code> declares that a certificate is issued as one and only one of the purposes of electronic signature, electronic seal or web site authentication. This <code>QCStatement</code> states that an EU qualified certificate is issued as one specific types according to Annexes I, III or IV of Regulation (EU) No 910/2014 when used in combination with the <code>qcStatement</code> as defined in clause 4.2.1".
June 2017	2.2.0	CR001 (ESI(17)58_008) Table 2: presence of <code>esi4-qcStatement-5</code> changed from M to O.
November 2017	2.2.1	Publication.
October 2019	2.2.2	CR004 (ESI(19)68_10r5) Clauses modified: 4.2 title, 4.2.1, 4.2.3, new clause 4.2.4, 5, Annex B Extending the scope of <code>QcCompliance</code> statement for use by non-EU countries.
December 2019	2.2.3	Correction of module object identifier (v2 added) in Annex B Final draft approved by remote consensus for submission to EN Approval Procedure.
January 2020	2.2.3	- Version sent to EN Approval Procedure On https://docbox.etsi.org/esi/Open/Compared_deliverables , one will be able to see what changes have taken place between the previous published version (v2.2.1) and this version.
April 2023		Updated to allocate reference number to each requirement in line with ETSI EN 319 411-1.
February 2025		ASN.1 corrections (CR#1). Addition of <code>qcStatement</code> to indicate the identity verification method (CR#2). Addition of new QSCD <code>qcStatement</code> (clause 4.2.5) (CR#3).

History

Document history		
V1.1.1	December 2000	Publication as ETSI TS 101 862 (Historical)
V1.2.1	June 2001	Publication as ETSI TS 101 862 (Historical)
V1.3.1	March 2004	Publication as ETSI TS 101 862 (Withdrawn)
V1.3.2	June 2004	Publication as ETSI TS 101 862 (Historical)
V1.3.3	January 2006	Publication as ETSI TS 101 862 (Historical)
V1.1.1	January 2013	Publication (Withdrawn)
V2.0.13	July 2015	Publication as ETSI TS 119 412-5 (Withdrawn)
V2.1.1	February 2016	Publication
V2.2.1	November 2017	Publication
V2.3.1	April 2020	Publication
V2.4.1	September 2023	Publication
V2.5.0	March 2025	ENAP process AP 20250612: 2025-03-14 to 2025-06-12
V2.5.1	June 2025	Publication