ETSI EN 319 412-5 V2.2.1 (2017-11)



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

REN/ESI-0019412-5v221

Keywords

e-commerce, electronic signature, security, trust services

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 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

The present document can be downloaded from: <u>http://www.etsi.org/standards-search</u>

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the only prevailing document is the print of the Portable Document Format (PDF) version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at <u>https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx</u>

If you find errors in the present document, please send your comment to one of the following services: <u>https://portal.etsi.org/People/CommiteeSupportStaff.aspx</u>

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI. The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© ETSI 2017. All rights reserved.

DECT[™], PLUGTESTS[™], UMTS[™] and the ETSI logo are trademarks of ETSI registered for the benefit of its Members. **3GPP**[™] and LTE[™] are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners. **oneM2M** logo is protected for the benefit of its Members.

GSM® and the GSM logo are trademarks registered and owned by the GSM Association.

Contents

Intelle	Intellectual Property Rights				
Foreword4					
Moda	Modal verbs terminology				
Introd	luction		5		
1	Scope		6		
2 2.1 2.2	References Normative references Informative references				
3 3.1 3.2	Definitions and abbrev Definitions Abbreviations	iations	7 7 7		
4 4.1 4.2	Qualified certificate sta General requirements	intements	8		
4.2.1 4.2.2	QCStatement claiming that the certificate is a EU qualified certificate				
4.2.3 4.3 4.3.1	QCStatement claiming that the certificate is a EU qualified certificate of a particular type Generic QCStatements Introduction				
4.3.2 4.3.3	QCStatement regarding limits on the value of transactions QCStatement indicating the duration of the retention period of material information1				
4.3.4 -	QCStatement re	egarding location of PKI Disclosure Statements (PDS)	10		
5	Requirements on QCSt	catements in EU qualified certificates	11		
Anne	x A (informative):	Relationship with the Regulation (EU) No 910/2014	12		
A.1	EU qualified certificate	es for electronic signatures	12		
A.2	EU qualified certificates for electronic seals		13		
A.3	EU qualified certificates for website authentication		14		
Anne	x B (normative):	ASN.1 declarations	15		
Anne	x C (informative):	Change History	17		
Histor	ry	History			

Intellectual Property Rights

Essential patents

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (https://ipr.etsi.org/).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Trademarks

The present document may include trademarks and/or tradenames which are asserted and/or registered by their owners. ETSI claims no ownership of these except for any which are indicated as being the property of ETSI, and conveys no right to use or reproduce any trademark and/or tradename. Mention of those trademarks in the present document does not constitute an endorsement by ETSI of products, services or organizations associated with those trademarks.

Foreword

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 Certificates 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 November 2017		
Date of latest announcement of this EN (doa):	28 February 2018		
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 August 2018		
Date of withdrawal of any conflicting National Standard (dow):	31 August 2018		

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).

"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.

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 may 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 <u>https://docbox.etsi.org/Reference</u>.

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] ISO 639-1:2002: "Codes for the representation of names of languages -- Part 1: Alpha-2 code".
- [2] IETF RFC 3739: "Internet X.509 Public Key Infrastructure: Qualified Certificates Profile".
- [3] Recommendation ITU-T X.680-X.699: "Information technology Abstract Syntax Notation One (ASN.1)".
- [4] ISO 4217: "Codes for the representation of currencies and funds".
- [5] IETF RFC 2818: "HTTP Over TLS".

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] Regulation (EU) No 910/2014 of the European Parliament and of the Council 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 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions 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 [i.3].

3.2 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

4 Qualified certificate statements

4.1 General requirements

The qcStatements extension shall be as specified in clause 3.2.6 of IETF RFC 3739 [2]. 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.

The syntax of the defined statements shall comply with ASN.1 [3]. The complete ASN.1 module for all defined statements shall be as provided in Annex B; it 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 the EU legislation

4.2.1 QCStatement claiming that the certificate is a EU qualified certificate

This Qcstatement claims 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.

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 the QC type statement defined in clause 4.2.3 according to the table 1.

QC type statement (clause 4.2.3)	Meaning of this statement (esi4-qcStatement-1)
Absent	The certificate is issued according to Directive 1999/93/EC [i.3] or Annex I of the Regulation (EU) No 910/2014 [i.8] (for electronic signatures).
Present	The certificate is issued 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.

Table 1: esi4-qcStatement-1 meaning

A certificate that includes this statement 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 the Regulation (EU) No 910/2014 [i.8] or a secure signature creation device as defined in the 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 EU qualified 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.

This QCStatements states that an EU qualified certificate is issued as one specific types according to Annexes I, III or IV of the Regulation (EU) No 910/2014 [i.8] when used in combination with the qcStatement as defined in clause 4.2.1. When used on its own it indicates that it is used for the purposes of electronic signatures, seals or web sites for "non-qualified certificates" within the context of Regulation (EU) No 910/2014 [i.8].

NOTE: This statement, without the one defined in clause 4.2.1, can be potentially used in other regulatory environments which use electronic signature, electronic seal or web site with the same meaning.

Syntax:

4.3 Generic QCStatements

4.3.1 Introduction

QCStatements defined in the following clauses may 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 }
OcEuLimitValue ::= MonetaryValue
MonetaryValue::= SEQUENCE {
   currency Iso4217CurrencyCode,
   amount
                   INTEGER .
   exponent
                   INTEGER }
   -- value = amount * 10^exponent
 Iso4217CurrencyCode ::= CHOICE {
     alphabetic PrintableString (SIZE (3)), -- Recommended
                INTEGER (1..999) }
     numeric
      -- Alphabetic or numeric currency code as defined in ISO 4217
     -- It is recommended that the Alphabetic form is used
                             OBJECT IDENTIFIER ::= { id-etsi-qcs 2 }
id-etsi-qcs-QcLimitValue
```

The currency codes shall be as defined in ISO 4217 [4]. The alphabetic form 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 the 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 the 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 }
```

The language shall be as defined in ISO 639-1 [1].

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. As a minimum, a URL to a PDS provided in this statement shall use the "https" (https://) scheme, IETF RFC 2818 [5].

5 Requirements on QCStatements in EU qualified certificates

 $EU\ qualified\ certificates\ shall\ include\ QCStatements\ in\ accordance\ with\ table\ 2.$

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.

Table 2: Requirements on QCStatements

Clause	QCStatement	Presence	Additional requirements
4.2.1	esi4-qcStatement-1	М	
4.2.2	esi4-qcStatement-4	0	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	0	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	0	
4.3.3	esi4-qcStatement-3	0	
4.3.4	esi4-qcStatement-5	0	 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 b) it shall not reference more than one PDS per language.

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

A.1 EU qualified certificates for electronic signatures

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

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

	Requirement from Annex III in the Regulation (EU) No 910/2014 [i.8]	Implementation according to the present document and referenced standards
(a)	an indication, at least in a form suitable for automated processing, that the certificate has been issued as a qualified certificate for electronic seal;	Inclusion of QC statements defining this property as defined in clauses 4.2.1 and 4.2.3.
(b)	 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: for a legal person: the name and, where applicable, registration number as stated in the official records, for a natural person: the person's name; 	By information stored in the issuer field as defined in clause 4.2.3 of ETSI EN 319 412-2 [i.2].
(c)	at least the name of the creator of the seal and, where applicable, registration number as stated in the official records;	As defined in clause 4.2.1 of ETSI EN 319 412-3 [i.5].
(d)	electronic seal validation data that corresponds to the electronic seal creation data;	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)	details of the beginning and end of the certificate's period of validity;	The validity period according to IETF RFC 5280 [i.9].
(f)	the certificate identity code, which must be unique for the qualified trust service provider;	The serial number of the certificate according to IETF RFC 5280 [i.9].
(g)	the advanced electronic signature or advanced electronic seal of the issuing qualified trust service provider;	The digital signature of the issuer according to IETF RFC 5280 [i.9].
(h)	the location where the certificate supporting the advanced electronic signature or advanced electronic seal referred to in point (g) is available free of charge;	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)	the location of the services that can be used to enquire about the validity status of the qualified certificate;	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)	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.	Inclusion of an explicit statement defining this property as defined in clause 4.2.2.

A.3 EU qualified certificates for website authentication

	Requirement from Annex IV in	Implementation according to the present document
	the Regulation (EU) No 910/2014 [i.8]	and referenced standards
(a)	an indication, at least in a form suitable for	Inclusion of an explicit statement defining this property
	automated processing, that the certificate has been	as defined in clauses 4.2.1 and 4.2.3.
	issued as a qualified certificate for website	
	authentication;	
(b)	a set of data unambiguously representing the	By information stored in the issuer field as defined in
	qualified trust service provider issuing the qualified	clause 7.1.4.1 of CA/Browser Forum Baseline
	certificates including at least, the Member State in	Requirements [i.11].
	which that provider is established and:	
	 for a legal person: the name and, where 	
	applicable, registration number as stated in the	
	official records,	
	 for a natural person: the person's name; 	
(C)	for natural persons: at least the name of the person	By information about the subject as defined in
. ,	to whom the certificate has been issued, or a	clause 7.1.4.2.2 of CA/Browser Forum Baseline
	pseudonym. If a pseudonym is used, it shall be	Requirements [i,11] and clause 9.2.1 of CA/Browser
	clearly indicated: for legal persons: at least the name	Extended Validation Requirements [i.12].
	of the legal person to whom the certificate is issued	
	and, where applicable, registration number as stated	
	in the official records:	
(d)	elements of the address, including at least city and	Information provided in the subject field in the certificate
()	State, of the natural or legal person to whom the	according to clause 7.1.4.2.2 of CA/Browser Forum
	certificate is issued and, where applicable, as stated	Baseline Requirements [i,11] and clauses 9.2.5 and
	in the official records:	9.2.7 of CA/Browser Extended Validation Requirements
	· · · · · · · · · · · · · · · · · · ·	[i.12].
(e)	the domain name(s) operated by the natural or legal	Information provided in the dNSName subject alternative
	person to whom the certificate is issued;	name and means as defined in clause 7.1.4.2.1 of
		CA/Browser Forum Baseline Requirements [i.11] and
		clause 9.2.2 of CA/Browser Extended Validation
		Requirements [i.12].
(f)	details of the beginning and end of the certificate's	The validity period according to IETF RFC 5280 [i.9].
. ,	period of validity;	
(g)	the certificate identity code, which must be unique	The serial number of the certificate according to IETF
	for the qualified trust service provider;	RFC 5280 [i.9].
(h)	the advanced electronic signature or advanced	The digital signature of the issuer according to IETF
	electronic seal of the issuing qualified trust service	RFC 5280 [i.9].
	provider;	
(i)	the location where the certificate supporting the	Information provided in the Authority Info Access
	advanced electronic signature or advanced	extension according to IETF RFC 5280 [i.9] and further
	electronic seal referred to in point (h) is available	profiled in clause 7.1.2.3 c of CA/Browser Forum
1	free of charge;	Baseline Requirements [i.11].
(j)	the location of the certificate validity status services	Provided by information in the CRL Distribution point
	that can be used to enquire as to the validity status	extension and/or the Authority Info Access extension
1	of the qualified certificate.	according to IETF RFC 5280 [i.9] and further profiled in
1		clause 7.1.2.3 b and c of CA/Browser Forum Baseline
1		Requirements [i.11] and clause 9.7 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) idmod(0) id-mod-qc-statements(0) }

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 {
                    Iso4217CurrencyCode,
      currency
                       INTEGER .
      amount
                      INTEGER }
      exponent.
      -- value = amount * 10^exponent
    Iso4217CurrencyCode ::= CHOICE {
       alphabetic PrintableString (SIZE (3)), -- Recommended
                   INTEGER (1..999) }
        numeric
        -- 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,
                PrintableString (SIZE(2))} --ISO 639-1 language code
       language
  -- Certificate type
  esi4-qcStatement-6 QC-STATEMENT ::= { SYNTAX QcType IDENTIFIED
  BY id-etsi-qcs-QcType }
  QcType::= SEQUENCE OF OBJECT IDENTIFIER (id-etsi-qct-esign | id-etsi-qct-eseal |
                                           id-etsi-qct-web, ...)
-- object identifiers
                             OBJECT IDENTIFIER ::= { itu-t(0) identified-organization(4) etsi(0)
id-etsi-gcs
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-QcSCD 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 } -- 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 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 id-etsi-qct-web Statements Supported statements Supported statements Supported statement-2 | esi4-qcStatement-3 | esi4-qcStatement-4 | esi4-qcStatement-5 | esi4-qcStatement-6, ...}

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 QCStatement declares that a certificate is issued as one and only one of the purposes of electronic signature, electronic seal or web site authentication. This QCStatements states that an EU qualified certificate is issued as one specific types according to Annexes I, III or IV of the Regulation (EU) No 910/2014 [i.8] when used in combination with the qcStatement as defined in clause 4.2.1."
June 2017	2.2.0	CR001 (ESI(17)58_008) Table 2: presence of esi4-qcStatement-5 changed from M to O.
November 2017	2.2.1	Publication.

17

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		
V2.2.0	August 2017	EN Approval Procedure AP 20171121: 2017-08-23 to 2017-11-21		
V2.2.1	November 2017	Publication		