



**Electronic Signatures and Infrastructures (ESI);
Policy and security requirements for
Trust Service Providers issuing certificates;
Part 2: Requirements for trust service providers issuing
EU qualified certificates**

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Foreword

This draft European Standard (EN) has been produced by ETSI Technical Committee Electronic Signatures and Infrastructures (ESI), and is now submitted for the combined Public Enquiry and Vote phase of the ETSI standards EN Approval Procedure.

The present document is part 2 of a multi-part deliverable covering policy requirements for Trust Service Providers issuing certificates. Full details of the entire series can be found in part 1 [2].

The present document is derived from the requirements specified in ETSI TS 101 456 [i.2].

Proposed national transposition dates	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

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

The Regulation (EU) No 910/2014 [i.1] establishes a legal framework for electronic signature and electronic seal and for website authentication services. These concepts can be commonly achieved by using cryptographic mechanisms. Electronic signatures and seals implemented by this way are digital signatures. Cryptographic mechanisms are generally supported by a Trust Service Provider (TSP) issuing public key certificates, commonly called a Certification Authority (CA).

By providing general policy and security requirements for trust service providers issuing certificates, the part 1 of the series ETSI EN 319 411-1 [2], is aiming to meet the general requirements of the international community to provide trust and confidence in electronic transactions including, amongst others, requirements from Regulation (EU) No 910/2014 [i.1] and from CA/Browser Forum [i.3] and [i.7].

The present document incorporates the general policy and security requirements as specified in ETSI EN 319 411-1 [2] and adds further requirements in order to meet the specific requirements of Regulation (EU) N° 910/2014 for TSPs issuing EU qualified certificates for electronic signatures and/or EU qualified certificates for electronic seals and/or EU qualified certificates for website authentication in accordance with but not limited to Articles 19, 24, 28, 38 and 45 of Regulation (EU) No 910/2014 [i.1].

Bodies wishing to establish policy requirements for TSPs issuing certificates in a regulatory context other than the EU can build their specifications on the general policy requirements specified in ETSI EN 319 411-1 [2] to benefit from global best practices, and specify any additional requirements in a manner similar to the present document.

Conformance to the present document on its own does not imply that the TSP, nor the certificates issued by the TSP, are qualified in accordance with Regulation (EU) No 910/2014 [i.1].

1 Scope

The present document specifies policy and security requirements for the issuance, maintenance and life-cycle management of EU qualified certificates as defined in Regulation (EU) No 910/2014 [i.1]. These policy and security requirements support reference certificate policies for the issuance, maintenance and life-cycle management of EU qualified certificates issued to natural persons (including natural persons associated with a legal person or a website) and to legal persons (including legal persons associated with a website), respectively.

The present document does not specify how the requirements identified can be assessed by an independent party, including requirements for information to be made available to such independent assessors, or requirements on such assessors.

NOTE: See ETSI EN 319 403 [i.6] for guidance on assessment of TSP's processes and services. The present document references ETSI EN 319 411-1 [2] for general requirements on TSP issuing certificates.

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

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] [ETSI EN 319 401](#): "Electronic Signatures and Infrastructures (ESI); General Policy Requirements for Trust Service Providers".
- [2] [ETSI EN 319 411-1](#): "Electronic Signatures and Infrastructures (ESI); Policy and security requirements for trust service providers issuing certificates; Part 1: General requirements".
- [3] [ETSI EN 319 412-5](#): "Electronic Signatures and Infrastructures (ESI); Certificate Profiles; Part 5: QCStatements".
- [4] [ISO/IEC 9594-8/Recommendation ITU-T X.509](#): "Information technology - Open Systems Interconnection - Part 8: The Directory: Public-key and attribute certificate frameworks".

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.

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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] [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.2] ETSI TS 101 456: "Electronic Signatures and Infrastructures (ESI); Policy requirements for certification authorities issuing qualified certificates".

[i.3] CA/Browser Forum: "Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates".

NOTE: The version is as referenced in ETSI EN 319 411-1 [2].

[i.4] IETF RFC 3647: "Internet X.509 Public Key Infrastructure Certificate Policy and Certification Practices Framework".

[i.5] [Directive 95/46/EC](#) of the European Parliament and of the Council of 24 October 1995 on the protection of individuals with regard to the processing of personal data and on the free movement of such data.

[i.6] ETSI EN 319 403: "Electronic Signatures and Infrastructures (ESI); Trust Service Provider Conformity Assessment - Requirements for conformity assessment bodies assessing Trust Service Providers".

[i.7] CA/Browser Forum: "Guidelines for The Issuance and Management of Extended Validation Certificates".

NOTE: The version is as referenced in ETSI EN 319 411-1 [2].

[i.8] ETSI TS 119 612: "Electronic Signatures and Infrastructures (ESI); Trusted Lists".

[i.9] IETF RFC 6960: "Internet X.509 Public Key Infrastructure Online Certificate Status Protocol - OCSP".

[i.10] ETSI TR 119 411-4: "Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates; Part 4: Checklist supporting audit of TSP against ETSI EN 319 411-1 or ETSI EN 319 411-2".

[i.11] [Commission implementing decision \(EU\) 2015/1505 of 8 September 2015](#) laying down technical specifications and formats relating to trusted lists pursuant to Article 22(5) of 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.

[i.12] ETSI TS 119 615: "Electronic Signatures and Infrastructures (ESI); Trusted Lists; Procedures for using and interpreting European Union Member States national trusted lists".

[i.13] ETSI TS 119 172-4: "Electronic Signatures and Infrastructures (ESI); Signature policies; Part 4: Signature applicability rules (validation policy) for European qualified electronic signatures/seals using trusted lists".

3 Definition of terms, symbols, abbreviations and notations

3.1 Terms

For the purposes of the present document, the terms given in ETSI EN 319 401 [1], ETSI EN 319 411-1 [2], Regulation (EU) No 910/2014 [i.1] and the following apply:

EU Qualified Certificate: Qualified Certificate as specified in Regulation (EU) No 910/2014 [i.1].

Qualified electronic Signature/Seal Creation Device (QSCD): As specified in Regulation (EU) No 910/2014 [i.1].

3.2 Symbols

Void.

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in ETSI EN 319 401 [1], ETSI EN 319 411-1 [2] and the following apply:

QCP-l	Policy for EU Qualified Certificate issued to a legal person
QCP-l-qscd	Policy for EU Qualified Certificate issued to a legal person where the private key and the related certificate reside on a QSCD
QCP-n	Policy for EU Qualified Certificate issued to a natural person
QCP-n-qscd	Policy for EU Qualified Certificate issued to a natural person where the private key and the related certificate reside on a QSCD
QEVCP-w	Policy for EU qualified website certificate issued to a legal person and linking the website to that person based on the EVCG [i.7]

NOTE: Previous versions of the present document used the abbreviation QCP-w.

QNCP-w	Policy for EU qualified website certificate issued to a natural or a legal person and linking the website to that person based on the BRG [i.3]
QNCP-w-gen	Policy for EU qualified website certificate issued to a natural or a legal person and linking the website to that person, applicable for general purpose certificate for qualified website authentication
QSCD	Qualified electronic Signature/Seal Creation Device

3.4 Notations

The requirements identified in the present document include:

- a) requirements applicable to any certificate policy. Such requirements are indicated by clauses without any additional marking;
- b) requirements applicable under certain conditions. Such requirements are indicated by clauses marked by "[CONDITIONAL]";
- c) requirements that include several choices which ought to be selected according to the applicable situation. Such requirements are indicated by clauses marked by "[CHOICE]";
- d) requirements applicable to the services offered under the applicable certificate policy. Such requirements are indicated by clauses marked by the applicable certificate policy indicator: "[QCP-l]", "[QCP-n]", "[QCP-l-qscd]", "[QCP-n-qscd]", "[QEVCP-w]", "[QNCP-w]" and/or "[QNCP-w-gen]".

Each requirement is identified as follows:

<3 letters service component> - < the clause number> - <2 digit number – incremental>

The service components are:

- **OVR:** General requirement (requirement applicable to more than 1 component)
- **GEN:** Certificate Generation Services
- **REG:** Registration Services
- **REV:** Revocation Services
- **DIS:** Dissemination Services
- **SDP:** Subject Device Provisioning
- **CSS:** Certificate Status Service

The management of the requirement identifiers throughout subsequent editions of the present document is as follows:

- When a requirement is inserted at the end of a clause, the 2 digit number above is incremented to the next available digit.

- When a requirement is inserted between two existing requirements, capital letters appended to the previous requirement identifier are used to distinguish new requirements.
- The requirement identifier for a deleted requirement is left and completed with "Void".
- The requirement identifier for a modified requirement is left void and the modified requirement is identified by capital letter(s) appended to the initial requirement number.

4 General concepts

4.1 General policy requirements concepts

ETSI EN 319 411-1 [2], clause 4.1 applies.

4.2 Certificate policy and certification practice statement

4.2.1 Overview

The explanations identified in ETSI EN 319 411-1 [2], clause 4.2.1 apply.

4.2.2 Purpose

The explanations identified in ETSI EN 319 411-1 [2], clause 4.2.2 apply.

4.2.3 Level of specificity

The guidelines identified in ETSI EN 319 411-1 [2], clause 4.2.3 apply.

4.2.4 Approach

The guidelines identified in ETSI EN 319 411-1 [2], clause 4.2.4 apply.

4.2.5 Certificate policy

The present document defines a number of certificate policies and allocates a policy identifier for each of them. These policy identifiers are called "EU qualified certificate policy identifiers"; they are defined in clause 5.3.

The certificate policies are based on the following policy requirements specified in ETSI EN 319 411-1 [2]:

- Requirements of the Normalized Certificate Policy (NCP).
- Requirements of the enhanced Normalized Certificate Policy (NCP+).
- Requirements of the Extended Validation Certificate Policy (EVCP).
- Requirements of the Organizational Validation Certificate Policy (OVCP), the Individual Validation Certificate Policy (IVCP) and the Domain Validation Certificate Policy (DVCP).
- Requirements common to web-authentication certificates for general purpose tagged [WEB].

NOTE: Some relying parties (e.g. vendors of Internet browser software) may also require conformance to the entirety of CA/Browser Forum Baseline Requirements or Extended Validation Guidelines or other policy requirements.

The EU qualified certificate policies are:

- 1) A policy for EU qualified certificates issued to natural persons (QCP-n) offering the level of quality defined in Regulation (EU) No 910/2014 [i.1] for EU qualified certificates:
 - The requirements for QCP-n include all the NCP policy requirements, plus additional requirements suited to support EU qualified certificates issuance and management as specified in Regulation (EU) No 910/2014 [i.1].
 - If the TSP's implementation of this policy requires a secure cryptographic device, the requirements for QCP-n include all the NCP+ requirements, plus the additional requirements suited to support EU qualified certificates issuance and management as specified in Regulation (EU) No 910/2014 [i.1].
- 2) A policy for EU qualified certificates issued to legal persons (QCP-l) offering the level of quality defined in Regulation (EU) No 910/2014 [i.1] for EU qualified certificates:
 - The requirements for QCP-l include all the NCP policy requirements, plus additional requirements suited to support EU qualified certificates issuance and management as specified in Regulation (EU) No 910/2014 [i.1].
 - If the TSP's implementation of this policy requires a secure cryptographic device, the requirements for QCP-n include all the NCP+ requirements, plus the additional requirements suited to support EU qualified certificates issuance and management as specified in Regulation (EU) No 910/2014 [i.1].
- 3) A policy for EU qualified certificates issued to natural persons (QCP-n-qscd) offering the level of quality defined in Regulation (EU) No 910/2014 [i.1] for EU qualified certificates and requiring the use of a Qualified Signature Creation Device (QSCD). Such policy requires that the private key related to the certified public key resides in the QSCD:
 - The requirements for QCP-n-qscd include all the QCP-n requirements (including all the NCP+ requirements), plus additional provisions suited to support EU qualified certificates issuance and management as specified in Regulation (EU) No 910/2014 [i.1], including those specific to the QSCD provision.
- 4) A policy for EU qualified certificates issued to legal persons (QCP-l-qscd) offering the level of quality defined in Regulation (EU) No 910/2014 [i.1] for EU qualified certificates and requiring the use of a Qualified Seal Creation Device (QSCD). Such policy requires that the private key related to the certified public key resides in the QSCD:
 - The requirements for QCP-l-qscd include all the QCP-l requirements (including all the NCP+ requirements), plus additional provisions suited to support EU qualified certificates issuance and management as specified in Regulation (EU) No 910/2014 [i.1], including those specific to the QSCD provision.
- 5) A policy for EU qualified website certificates (QEVCP-w) that conforms to the latest version of EVCG [i.7], offering at a minimum the "Extended Validated" level of assurance as defined by the CA/Browser Forum, and the level of quality defined in Regulation (EU) No 910/2014 [i.1] for EU qualified certificates used in support of websites authentication:
 - The requirements for QEVCP-w include all the EVCP requirements for certificates issued to legal persons, plus additional provisions suited to support EU qualified certificates issuance and management as specified in Regulation (EU) No 910/2014 [i.1].
- 6) A policy for EU qualified website certificates (QNCP-w) that conforms to the latest version of BRG [i.3], offering at a minimum the "Organization Validated" or "Individual Validated" level of assurance as defined by the CA/Browser Forum and the level of quality defined in Regulation (EU) No 910/2014 [i.1] for EU qualified certificates used in support of websites authentication:
 - The requirements for QNCP-w include all the NCP requirements for certificates issued to natural or legal persons, plus either the IVCP or the OCVP requirements, plus additional provisions suited to support EU qualified certificates issuance and management as specified in Regulation (EU) No 910/2014 [i.1].

- 7) A policy for EU qualified website certificates (QNCP-w-gen) offering the level of quality defined in Regulation (EU) No 910/2014 [i.1] for EU qualified certificates used in support of websites authentication for general purpose certificate for qualified website authentication:
- The requirements for QNCP-w-gen include all the NCP requirements for certificates issued to natural or legal persons, plus selected requirements from BRG [i.3] tagged as [WEB] in ETSI EN 319 411-1 [2], plus additional provisions suited to support EU qualified certificates issuance and management as specified in Regulation (EU) No 910/2014 [i.1].

Clause 7 specifies a framework for other certificate policies which enhance or further constrain the above policies.

4.3 Other TSP statements

The guidelines identified in ETSI EN 319 411-1 [2], clause 4.3 apply.

4.4 Certification services

The service of issuing EU qualified certificates is broken down in component services presented in ETSI EN 319 411-1 [2], clause 4.4 for the purposes of classifying requirements.

5 General provisions on Certification Practice Statement and Certificate Policies

5.1 General requirements

The present document is structured broadly in line with IETF RFC 3647 [i.4] to assist TSPs in applying these requirements to their own CP and CPS documentation.

OVR-5.1-01: The general requirements specified in ETSI EN 319 411-1 [2], clause 5.1 shall apply.

In addition the following particular requirements apply:

OVR-5.1-02 [QCP-n] and [QCP-l] [CHOICE]:

- If the TSP's terms and conditions do not require a secure cryptographic device, all requirements defined for NCP in ETSI EN 319 411-1 [2] shall apply. Where a requirement for NCP is specified differently for natural person or legal person respectively, such requirement shall apply for QCP-n or QCP-l accordingly.
- If the TSP's terms and conditions require a secure cryptographic device all requirements defined for NCP+ in ETSI EN 319 411-1 [2] shall apply. Where a requirement for NCP+ is specified differently for natural person or legal person respectively, such requirement shall apply for QCP-n or QCP-l accordingly.

OVR-5.1-03 [QEVCP-w]: All requirements defined for [EVCP] in ETSI EN 319 411-1 [2] shall apply.

NOTE 1: This implies compliance with the latest version of EVCG [i.7].

OVR-5.1-04 [QCP-n-qscd]: All requirements defined for [QCP-n], including all requirements defined for NCP+ in ETSI EN 319 411-1 [2], shall apply. Where a requirement for NCP+ is specified differently for natural person or legal person respectively, the requirement for natural person shall apply for QCP-n-qscd.

OVR-5.1-05 [QCP-l-qscd]: All requirements defined for [QCP-l], including all requirements defined for NCP+ in ETSI EN 319 411-1 [2], shall apply. Where a requirement for NCP+ is specified differently for natural person or legal person respectively, the requirement for legal person shall apply for QCP-l-qscd.

OVR-5.1-06 [QNCP-w], [QNCP-w-gen]: All requirements defined for NCP in ETSI EN 319 411-1 [2] shall apply.

OVR-5.1-07 [QNCP-w-gen]: All requirements tagged as [WEB] in ETSI EN 319 411-1 [2] shall apply.

OVR-5.1-08 [QNCP-w]: All requirements defined for [IVCP] or [OVCP] in ETSI EN 319 411-1 [2] shall apply.

NOTE 2: This implies compliance with the latest version of BRG [i.3].

OVR-5.1-09 [QNCP-w], [QEVCW-w]: [CONDITIONAL]: In case of conflict between the present document's requirements and the latest versions of BRG or EVCG, the BRG or EVCG requirements shall take precedence.

NOTE 3 Implications of the above condition do not constitute non-conformities against the ETSI certificate policies defined by the present document.

5.2 Certification Practice Statement Requirements

OVR-5.2-01: The requirements identified in ETSI EN 319 411-1 [2], clause 5.2 shall apply.

5.3 Certificate Policy name and identification

As described in IETF RFC 3647 [i.4], clause 3.3, certificates include a certificate policy identifier which can be used by relying parties in determining the certificates suitability and trustworthiness for a particular application.

The identifiers for the EU qualified certificate policies specified in the present document are:

- a) **QCP-n:** certificate policy for EU qualified certificates issued to natural persons;

itu-t(0) identified-organization(4) etsi(0) qualified-certificate-policies(194112)
policy-identifiers(1) qcp-natural (0)

- b) **QCP-l:** certificate policy for EU qualified certificates issued to legal persons;

itu-t(0) identified-organization(4) etsi(0) qualified-certificate-policies(194112)
policy-identifiers(1) qcp-legal (1)

- c) **QCP-n-qscd:** certificate policy for EU qualified certificates issued to natural persons with private key related to the certified public key in a QSCD;

itu-t(0) identified-organization(4) etsi(0) qualified-certificate-policies(194112)
policy-identifiers(1) qcp-natural-qscd (2)

- d) **QCP-l-qscd:** certificate policy for EU qualified certificates issued to legal persons with private key related to the certified public key in a QSCD;

itu-t(0) identified-organization(4) etsi(0) qualified-certificate-policies(194112)
policy-identifiers(1) qcp-legal-qscd (3)

- e) **QEVCW-w:** certificate policy for EU qualified website authentication certificates based on EVCP;

itu-t(0) identified-organization(4) etsi(0) qualified-certificate-policies(194112)
policy-identifiers(1) qcp-web (4)

- f) **QNCP-w:** certificate policy for EU qualified website authentication certificates based on NCP, and OVCP or IVCP;

itu-t(0) identified-organization(4) etsi(0) qualified-certificate-policies(194112)
policy-identifiers(1) qncp-web (5)

- g) **QNCP-w-gen:** certificate policy for EU qualified website authentication based on NCP and requirements tagged as [WEB] in ETSI EN 319 411-1 [2].

itu-t(0) identified-organization(4) etsi(0) qualified-certificate-policies(194112) policy-identifiers(1) qncp-web-gen (6)

Including one of the policy identifiers defined above in a EU qualified certificate indicates that the certificate is issued and managed according to the present document for that policy. The policy identifier can be used by relying parties in determining the certificate's suitability and trustworthiness in the framework of Regulation (EU) No 910/2014 [i.1].

NOTE: See clause 4.2.5 for a general description of the above policies.

OVR-5.3-01: The requirement identified in ETSI EN 319 411-1 [2], clause 5.3 shall apply.

5.4 PKI Participants

5.4.1 Certification authority

The concepts described in ETSI EN 319 411-1 [2], clause 5.4.1 apply.

NOTE: Regulation (EU) No 910/2014 [i.1] addresses liability of trust service providers. In particular, the TSP identified as the qualified TSP issuing EU qualified certificates in the trusted list of qualified services, maintains overall responsibility for meeting liability for the issuing of certificates as required in Regulation (EU) No 910/2014 [i.1].

OVR-5.4.1-01: The requirements identified in ETSI EN 319 411-1 [2], clause 5.4.1 shall apply.

5.4.2 Subscriber and subject

ETSI EN 319 411-1 [2], clause 5.4.2 applies.

5.4.3 Others

OVR-5.4.3-01: The requirement identified in ETSI EN 319 411-1 [2], clause 5.4.3 shall apply.

5.5 Certificate Usage

5.5.1 QCP-n

Certificates issued under these requirements are aimed to support the advanced electronic signatures based on a qualified certificate defined in articles 26 and 28 of the Regulation (EU) No 910/2014 [i.1].

5.5.2 QCP-I

Certificates issued under these requirements are aimed to support the advanced electronic seals based on a qualified certificate defined in articles 36 and 38 of the Regulation (EU) No 910/2014 [i.1].

5.5.3 QCP-n-qscd

Certificates issued under these requirements are aimed to support qualified electronic signatures such as defined in article 3 (12) of the Regulation (EU) No 910/2014 [i.1].

5.5.4 QCP-I-qscd

Certificates issued under these requirements are aimed to support qualified electronic seals such as defined in article 3 (27) of the Regulation (EU) No 910/2014 [i.1].

5.5.5 QEVCP-w

Certificates issued under these requirements are aimed to support website authentication based on a qualified certificate defined in articles 3 (38) and 45 of the Regulation (EU) No 910/2014 [i.1], for uses described in clause 4.2.5 5).

5.5.6 QNCP-w

Certificates issued under these requirements are aimed to support website authentication based on a qualified certificate defined in articles 3 (38) and 45 of the Regulation (EU) No 910/2014 [i.1], for uses described in clause 4.2.5 6).

5.5.7 QNCP-w-gen

Certificates issued under these requirements are aimed to support website authentication based on a qualified certificate defined in articles 3 (38) and 45 of the Regulation (EU) No 910/2014 [i.1], for uses described in clause 4.2.5 7).

6 Trust Service Providers practice

6.1 Publication and Repository Responsibilities

OVR-6.1-01: The requirements specified in ETSI EN 319 411-1 [2], clause 6.1 shall apply.

6.2 Identification and Authentication

6.2.1 Naming

See ETSI EN 319 411-1 [2], clause 6.2.1.

See also clause 6.6.1 of the present document.

6.2.2 Initial Identity Validation

REG-6.2.2-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.2.2 shall apply.

In addition the following particular requirements apply:

REG-6.2.2-02 [QCP-n] and [QCP-n-qscd]: The identity of the natural person and, if applicable, any specific attributes of the person, shall be verified:

- a) by the physical presence of the natural person; or
- b) using methods which provide equivalent assurance in terms of reliability to the physical presence and for which the TSP can prove the equivalence.

NOTE 1: The proof of equivalence can be done according to the Regulation (EU) No 910/2014 [i.1].

NOTE 2: The proof of equivalence needs to consider the impersonation risks inherent to remote applications. In particular, an uninterrupted chain of subsequent remote registrations can increase such risks, because the person can never be actually seen for years, and/or because the traceability with the initial face to face is weakened.

REG-6.2.2-03 [QCP-l] and [QCP-l-qscd]: The identity of the legal person and, if applicable, any specific attributes of the person, shall be verified:

- a) by the physical presence of an authorized representative of the legal person; or
- b) using methods which provide equivalent assurance in terms of reliability to the physical presence of an authorized representative of the legal person and for which the TSP can prove the equivalence.

NOTE 3: See notes 1 and 2 above.

REG-6.2.2-04 [QEVCP-w], [QNCP-w] and [QNCP-w-gen] [CHOICE]:

- if the subscriber is a natural person the identity of the subscriber and her/his link with the domain name to be certified and, if applicable, any specific attributes of the person shall be verified as indicated above for [QCP-n];
- if the subscriber is a legal person the identity of the subscriber and its link with the domain name to be certified and, if applicable, any specific attributes of the person shall be verified as indicated above for [QCP-l].

6.2.3 Identification and authentication for Re-key requests

REG-6.2.3-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.2.3 shall apply.

6.2.4 Identification and authentication for revocation requests

REV-6.2.4-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.2.4 shall apply.

6.3 Certificate Life-Cycle Operational Requirements

6.3.1 Certificate Application

NOTE: See also clause 6.2.2 regarding identity validation.

REG-6.3.1-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.3.1 shall apply.

6.3.2 Certificate application processing

REG-6.3.2-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.3.2 shall apply.

6.3.3 Certificate issuance

GEN-6.3.3-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.3.3 shall apply.

6.3.4 Certificate acceptance

OVR-6.3.4-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.3.4 shall apply.

In addition:

OVR-6.3.4-02 [CONDITIONAL]: If the subscriber agreement is in electronic form, it should be signed with an Advanced Electronic Signature or an Advanced Electronic Seal as specified by Regulation (EU) No 910/2014 [i.1].

NOTE: During the process of issuance of the certificate to the subscriber confirmation of agreement can use an Advanced Electronic Signature supported by the qualified certificate being issued.

6.3.5 Key Pair and Certificate Usage

OVR-6.3.5-01: The general obligations specified in ETSI EN 319 411-1 [2], clause 6.3.5 shall apply.

In addition:

Where the TSP manages the QSCD for the subject:

- **SDP-6.3.5-02 [QCP-n-qscd] and [QCP-l-qscd] [CONDITIONAL]:** If the TSP manages the QSCD for the subject, the private key shall not be used for signing except within a QSCD.
- **SDP-6.3.5-03 [QCP-n-qscd] [CONDITIONAL]:** If the TSP manages the QSCD for the subject, the subject's private key shall be used under the subject's sole control.
- **SDP-6.3.5-04 [QCP-l-qscd] [CONDITIONAL]:** If the TSP manages the QSCD for the subject, the subject's private key shall be used under the subject's control.
- **SDP-6.3.5-05 [QCP-n-qscd] [CONDITIONAL]:** If the TSP manages the QSCD for the subject, the subject's key pair should be used only for electronic signatures.
- **SDP-6.3.5-06 [QCP-l-qscd]: [CONDITIONAL]:** If the TSP manages the QSCD for the subject, the subject's key pair should be used only for electronic seals.

Subscriber's obligations:

- **OVR-6.3.5-07** [QCP-n-qscd] and [QCP-l-qscd]: The subscriber's obligations (see clause 6.3.4) (or respectively the obligations on the TSP managing the key on behalf of the subject) shall require that digital signatures are only created by a QSCD device.
- **SDP-6.3.5-08** [QCP-n] and [QCP-n-qscd]: The subscriber's obligations (see clause 6.3.4) (or respectively the obligations on the TSP managing the key on behalf of the subject) shall require that the subject's private key is maintained (or respectively is used) under the subject's sole control.
- **SDP-6.3.5-09** [QCP-l] and [QCP-l-qscd]: The subscriber's obligations (see clause 6.3.4) (or respectively the obligations on the TSP managing the key on behalf of the subject) shall require that the subject's private key is used under the subject's control.
- **SDP-6.3.5-10** [QCP-n] and [QCP-n-qscd]: The subscriber's obligations (see clause 6.3.4) or the obligations on the TSP managing the key on behalf of the subject should recommend that the subject's key pair is used only for electronic signatures.
- **SDP-6.3.5-11** [QCP-l] and [QCP-l-qscd]: The subscriber's obligations (see clause 6.3.4) or the obligations on the TSP managing the key on behalf of the subject should recommend that the subject's key pair is used only for electronic seals.

Notice to Relying Party:

- **OVR-6.3.5-12**: The notice to relying parties shall inform them that, as part of the conditions for a certificate to be relied upon as an EU Qualified Certificate, the trust anchor for the validation of the certificate shall be as identified in a service digital identifier of an appropriate EU trusted list entry for a QTSP (see ETSI TS 119 612 [i.8]).

NOTE 1: Technical specifications and formats for EU trusted lists are laid down in commission implementing decision (EU) 2015/1505 [i.11] pursuant to Article 22(5) of Regulation (EU) No 910/2014 [i.1].

NOTE 2: ETSI TS 119 615 [i.12] provides guidance on how to validate a digital certificate against the EU trusted lists, in order to determine whether it can be considered as an EU qualified certificate.

NOTE 3: ETSI TS 119 172-4 [i.13] defines a signature validation policy describing how to validate a digital signature against the EU trusted lists, in order to determine whether it can be considered as an EU qualified electronic signature or seal.

6.3.6 Certificate Renewal

REG-6.3.6-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.3.6 shall apply.

6.3.7 Certificate Re-key

NOTE: See ETSI EN 319 411-1 [2], clause 6.2.3.

6.3.8 Certificate Modification

REG-6.3.8-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.3.8 shall apply.

6.3.9 Certificate Revocation and Suspension

REV-6.3.9-01: The requirements specified in ETSI EN 319 411-1 [2], clause 6.3.9 shall apply.

6.3.10 Certificate Status Services

CSS-6.3.10-01: The requirements specified in ETSI EN 319 411-1 [2], clause 6.3.10 shall apply.

NOTE 1: Regulation (EU) No 910/2014 [i.1] states that this service is to be provided free of charge.

In addition the following particular requirements apply:

CSS-6.3.10-02: Revocation status information shall be made available beyond the validity period of the certificate with at least one of the methods used during the period of validity of the certificate (i.e. CRL or OCSP).

Where CRLs are used to provide revocation status information beyond the validity period of the certificate:

- **CSS-6.3.10-03** [CONDITIONAL]: If CRLs are provided, the TSP should not remove from the CRL revoked certificates after they have expired.
- **CSS-6.3.10-04** [CONDITIONAL]: If CRLs are provided and no alternative means (e.g. OCSP) are provided for revocation status information on expired certificates, the TSP shall not remove from the CRL revoked certificates after they have expired.
- **CSS-6.3.10-05** [CONDITIONAL]: If CRLs are provided and the TSP does not remove from the CRL revoked certificates after they have expired, the CRL shall include the X.509 "ExpiredCertsOnCRL" extension as defined in ISO/IEC 9594-8/Recommendation ITU-T X.509 [4].

NOTE 2: The ad-hoc Trusted List expiredCertsRevocationInfo Extension [i.8], specifying that the TSP keeps expired certificates in CRLs, can be set by the supervisory body in charge of the TSP in complement to **CSS-6.3.10-04** or **CSS-6.3-05** above.

- **CSS-6.3.10-06** [CONDITIONAL]: If CRLs are provided and the TSP removes from the CRL revoked certificates after they have expired, the CRL shall not include the X.509 "ExpiredCertsOnCRL" extension as defined in ISO/IEC 9594-8/Recommendation ITU-T X.509 [4].
- **CSS-6.3.10-07** [CONDITIONAL]: If CRLs are provided and the TSP decides or is required to terminate a CRL, the TSP should issue and publish at the corresponding CRL Distribution Point a last CRL with a nextUpdate field value as defined in ETSI EN 319 411-1 [2], clause 6.3.9 Requirement **CSS-6.3.9-06**.

NOTE 3: CRL termination can occur when there are no more valid certificates in the scope of the CRL, and e.g. potentially in addition, when the CRL's signing entity certificate expires or when the CRL's signing entity private key is decommissioned.

- **CSS-6.3.10-08** [CONDITIONAL]: If CRLs are provided, the TSP should preserve the integrity and the availability of the last CRL at least for the period specified in the CPS as requested in **CSS-6.3.10-12**.

NOTE 4: ETSI specifies formats for long term preservation of signed data in other documents.

- **CSS-6.3.10-09** [CONDITIONAL]: If CRLs are provided, the TSP shall not issue a last CRL until all certificates in the scope of the CRL are either expired or revoked.

Where OCSP is used to provide revocation status information beyond the validity period of the certificate:

- **CSS-6.3.10-10** [CONDITIONAL]: If OCSP is provided, the OCSP responder should use the ArchiveCutOff extension as specified in IETF RFC 6960 [i.9], with the archiveCutOff date set to the CA's certificate "notBefore" time and date value.
- **CSS-6.3.10-11** [CONDITIONAL]: If OCSP is provided and the CA's certificate is about to expire, the TSP may compute a last OCSP answer for each and every issued certificate (whether revoked or not), with the "nextUpdate" field set to "99991231235959Z".

NOTE 5: Pre-computing OCSP answers prevents the use of the nonce extension.

NOTE 6: The ad-hoc Trusted List expiredCertsRevocationInfo Extension [i.8], specifying that the OCSP provides info on expired certificates can be set by the supervisory body in charge of the TSP in complement to **CSS-6.3.10-10** above.

CSS-6.3.10-12: The TSP shall document precisely in its practices statements and in its terms and conditions how requirements **CSS-6.3.10-02** to **CSS-6.3.10-11** are met, including:

- a) the period over which the revocation status information is made available;
- b) how the revocation status information is provided in the case of CA's key compromise;
- c) how the revocation status information is provided in the case of TSP termination (see clause 6.4.9).

CSS-6.3.10-13 [CONDITIONAL]: If the TSP is managing the subject's private key and assures that the certificate is valid at the time of use of the private key, this information should be indicated in its practices statements or certificate policy, and may also be derived from the subject's certificate.

6.3.11 End of Subscription

No policy requirement.

6.3.12 Key Escrow and Recovery

SDP-6.3.12-01: The requirements specified in ETSI EN 319 411-1 [2], clause 6.3.12 shall apply.

6.4 Facility, Management and Operational Controls

6.4.1 General

OVR-6.4.1-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.4.1 shall apply.

6.4.2 Physical Security Controls

OVR-6.4.2-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.4.2 shall apply.

6.4.3 Procedural Controls

OVR-6.4.3-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.4.3 shall apply.

6.4.4 Personnel Controls

OVR-6.4.4-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.4.4 shall apply.

6.4.5 Audit Logging Procedures

OVR-6.4.5-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.4.5 shall apply.

In addition, for the recording of information concerning EU qualified certificates, the following particular requirements apply:

- **OVR-6.4.5-02**: Void.
- **OVR-6.4.5-03**: The information shall be maintained as necessary to meet legal requirements beyond the termination of the TSP (see clause 6.4.9).
- **OVR-6.4.5-04**: Void.
- **OVR-6.4.5-05**: Void.

NOTE: Regulation (EU) No 910/2014 [i.1] article 24.2 (h) requires a qualified TSP to "*record and keep accessible for an appropriate period of time, including after the activities of the qualified trust service provider have ceased, all relevant information concerning data issued and received by the qualified trust service provider, in particular, for the purpose of providing evidence in legal proceedings and for the purpose of ensuring continuity of the service. Such recording may be done electronically*".

- **SDP-6.4.5-06**: Void.

6.4.6 Records Archival

OVR-6.4.6-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.4.6 shall apply.

6.4.7 Key Changeover

No policy requirement.

6.4.8 Compromise and Disaster Recovery

OVR-6.4.8-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.4.8 shall apply.

6.4.9 CA or RA Termination

OVR-6.4.9-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.4.9 shall apply.

6.5 Technical Security Controls

6.5.1 Key Pair Generation and Installation

OVR-6.5.1-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.5.1 shall apply.

In addition:

SDP-6.5.1-02 [QCP-n-qscd] and [QCP-l-qscd]: Whether the device is prepared by the TSP or not, the TSP shall verify that the device is certified as a QSCD.

NOTE 1: Regulation (EU) No 910/2014 [i.1] states that the QSCD is to be certified as meeting the requirements of annex II through a certificate following the rules expressed in sections 4 and 5 of this Regulation.

NOTE 2: Further standards may be issued in this area.

SDP-6.5.1-03 [QCP-n-qscd] and [QCP-l-qscd] [CONDITIONAL]: If the device is managed by a third party TSP on behalf of the subject which is not the TSP issuing the certificate itself, the TSP issuing the certificate shall verify that this third party TSP is meeting the appropriate requirements in terms of qualification.

SDP-6.5.1-04 [QCP-n-qscd] and [QCP-l-qscd]: The certificate request process shall ensure that the public key to be certified is from a key pair generated by a QSCD.

SDP-6.5.1-05 [QCP-n-qscd] and [QCP-l-qscd] [CONDITIONAL]: If the subject's key pair is generated by a TSP and imported into the QSCD used for signature/seal creation, the environmental assumptions and security objectives for the certified device (QSCD used for key generation and QSCD used for signature/seal creation) shall be met by the TSP.

SDP-6.5.1-06 [QCP-n-qscd] and [QCP-l-qscd] [CONDITIONAL]: If the subject's private key is moved between devices potential vulnerabilities to key compromise shall be determined and adequate mechanisms implemented to mitigate any vulnerabilities.

SDP-6.5.1-07: Void.

SDP-6.5.1-07A [QCP-n-qscd] and [QCP-l-qscd]: The TSP shall take appropriate measures in case of modification of the QSCD status occurring before the end of the validity period of the certificate.

NOTE 3: The official Member States' notifications on Designated Bodies under Articles 30(2) and 39(2) of Regulation (EU) 910/2014 and Certified Qualified Signature Creation Devices under Article 31(1)-(2), and Certified Qualified Seal Creation Devices under Article 39(3) of Regulation (EU) 910/2014, and information from Member States on Secure Signature Creation Devices benefiting from the transitional measure set in article 51(1) of Regulation (EU) 910/2014 [i.1] can be used to monitor the QSCD status.

SDP-6.5.1-07B [QCP-n-qscd] and [QCP-l-qscd]: The TSP shall document in its CPS the measures it takes in case of modification of the QSCD status occurring before the end of the validity period of the certificate.

NOTE 4: The qcStatement for QSCD (esi4-qcStatement-4) defined in ETSI EN 319 412-5 [3] is to be included in the certificate as per **GEN-6.6.1-03**, and **REV-6.3.9-01**, by reference to requirements specified in ETSI EN 319 411-1 [2], clause 6.3.9, **REV-6.3.9-02 b**) in particular, triggers the revocation of any non-expired certificate that the TSP is aware of changes which impact the validity of the certificate. The loss of QSCD certification status for certificate bearing the esi4-qcStatement-4 is such a change.

6.5.2 Private Key Protection and Cryptographic Module Engineering Controls

GEN-6.5.2-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.5.2 shall apply.

6.5.3 Other Aspects of Key Pair Management

GEN-6.5.3-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.5.3 shall apply.

6.5.4 Activation Data

SDP-6.5.4-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.5.4 shall apply.

6.5.5 Computer Security Controls

OVR-6.5.5-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.5.5 shall apply.

6.5.6 Life Cycle Security Controls

OVR-6.5.6-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.5.6 shall apply.

6.5.7 Network Security Controls

OVR-6.5.7-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.5.7 shall apply.

6.5.8 Time-stamping

NOTE: Not in the scope of the present document.

6.6 Certificate, CRL, and OCSP Profiles

6.6.1 Certificate Profile

GEN-6.6.1-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.6.1 shall apply.

In addition the following particular requirements apply:

GEN-6.6.1-02: The certificate shall include all appropriate qcStatements as defined in ETSI EN 319 412-5 [3].

GEN-6.6.1-03 [QCP-n-qscd] and [QCP-l-qscd]: The certificate shall include the qcStatement for QSCD (esi4-qcStatement-4) defined in ETSI EN 319 412-5 [3].

GEN-6.6.1-04: The qcStatement for QSCD (esi4-qcStatement-4) shall not be included in certificates that are not issued according to [QCP-n-qscd] or [QCP-l-qscd] requirements.

GEN-6.6.1-05: The certificate shall include at least one of the following policy identifier [CHOICE]:

- [QCP-n]:
 - the policy identifier defined in clause 5.3 item a); and/or
 - an OID, allocated by the TSP (or any relevant stakeholder) to the certificate policy applied to issue the certificate.
- [QCP-l]:
 - the policy identifier defined in clause 5.3 item b); and/or

- an OID allocated by the TSP (or any relevant stakeholder) to the certificate policy applied to issue the certificate.
- [QCP-n-qscd]:
 - the policy identifier defined in clause 5.3 item c); and/or
 - an OID, allocated by the TSP (or any relevant stakeholder) to the certificate policy applied to issue the certificate.
- [QCP-l-qscd]:
 - the policy identifier defined in clause 5.3 item d); and/or
 - an OID allocated by the TSP (or any relevant stakeholder) to the certificate policy applied to issue the certificate.
- [QEVCP-w]:
 - an OID as specified in EVCG [i.7], clause 9.3.2; and at least one of the following policy identifiers:
 - as defined in clause 5.3 item e); and/or
 - an OID allocated by the TSP (or any relevant stakeholder) to the certificate policy applied to issue the certificate.
- [QNCP-w]:
 - an OID as specified in BRG [i.3], clause 1.2 or 7.1.6.1; and at least one of the following policy identifiers:
 - as defined in clause 5.3 item f); and/or
 - an OID allocated by the TSP (or any relevant stakeholder) to the certificate policy applied to issue the certificate.
- [QNCP-w-gen]:
 - the policy identifier defined in clause 5.3 item g); and/or
 - an OID allocated by the TSP (or any relevant stakeholder) to the certificate policy applied to issue the certificate.

GEN-6.6.1-06: Void.

GEN-6.6.1-07 [CONDITIONAL]: If the certificate contains only an OID allocated by the TSP, the referred certificate policy shall be built according to clause 7. In particular it shall clearly identify which of the certificate policy defined in the present document it adopts as the basis.

NOTE: The rationales for writing a certificate policy are provided in clause 4.

6.6.2 CRL Profile

CSS-6.6.2-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.6.2 shall apply.

6.6.3 OCSP Profile

CSS-6.6.3-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.6.3 shall apply.

6.7 Compliance Audit and Other Assessment

NOTE: See ETSI EN 319 403 [i.6].

6.8 Other Business and Legal Matters

6.8.1 Fees

These policy requirements are not meant to imply any restrictions on charging for TSP's services.

6.8.2 Financial Responsibility

OVR-6.8.2-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.8.2 shall apply.

6.8.3 Confidentiality of Business Information

No policy requirement.

6.8.4 Privacy of Personal Information

OVR-6.8.4-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.8.4 shall apply.

6.8.5 Intellectual Property Rights

No policy requirement.

6.8.6 Representations and Warranties

OVR-6.8.6-01: The general obligations specified in ETSI EN 319 411-1 [2], clause 6.8.6 shall apply.

OVR-6.8.6-02: Void.

OVR-6.8.6-03: Void.

OVR-6.8.6-04a: Void.

OVR-6.8.6-04b: Void.

6.8.7 Disclaimers of Warranties

See clause 6.8.6.

See also clause A.2 in ETSI EN 319 411-1 [2] for additional information.

6.8.8 Limitations of Liability

Limitations on liability are covered in the terms and conditions as per clause 6.9.4.

NOTE: See article 13 of the Regulation (EU) No 910/2014 [i.1].

6.8.9 Indemnities

No policy requirement.

6.8.10 Term and Termination

No policy requirement.

6.8.11 Individual notices and communications with participants

No policy requirement.

6.8.12 Amendments

No policy requirement.

6.8.13 Dispute Resolution Procedures

OVR-6.8.13-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.8.13 shall apply.

6.8.14 Governing Law

Not in the scope of the present document.

6.8.15 Compliance with Applicable Law

OVR-6.8.15-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.8.15 shall apply.

6.8.16 Miscellaneous Provisions

No policy requirement.

6.9 Other Provisions

6.9.1 Organizational

OVR-6.9.1-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.9.1 shall apply.

6.9.2 Additional testing

OVR-6.9.2-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.9.2 shall apply.

6.9.3 Disabilities

OVR-6.9.3-01: The requirements identified in ETSI EN 319 411-1 [2], clause 6.9.3 shall apply.

6.9.4 Terms and conditions

OVR-6.9.4-01: The requirements specified in ETSI EN 319 411-1 [2], clause 6.9.4 shall apply.

In addition the following particular requirements apply:

OVR-6.9.4-02: The certificate policy shall include a clear statement indicating that the policy is for EU qualified certificates and whether the policy requires use of a QSCD.

OVR-6.9.4-03: A PKI disclosure statement shall be supported.

OVR-6.9.4-04: The PKI disclosure statement should be structured according to annex A in ETSI EN 319 411-1 [2].

NOTE: This PKI disclosure statement can assist a TSP to respond to regulatory requirements and concerns, particularly those related to consumer deployment and the requirements of Regulation (EU) No 910/2014 [i.1], article 24 2.

7 Framework for the definition of other certificate policies built on the present document

7.1 Certificate policy management

OVR-7.1-01: The requirements identified in ETSI EN 319 411-1 [2], clause 7.1 shall apply.

In addition the following particular requirements apply:

OVR-7.1-02: The certificate policy shall incorporate, or further constrain, all the requirements identified in clauses 5 and 6 of the present document, as appropriate to the usage, building on the requirements of the appropriate certificate policy as defined in the present document.

NOTE: Clause 4.4 provides the rationales for writing a certificate policy.

7.2 Additional requirements

OVR-7.2-01: The requirements identified in ETSI EN 319 411-1 [2], clause 7.2 shall apply.

Annex A (informative): Regulation and EU qualified certificate policy mapping

Table A.1 identifies how the security controls objectives and other parts of the EU Qualified Certificate Policies (QCP) defined in the present document address the requirements of TSP issuing qualified certificates as defined in articles 19 and 24 and annexes of Regulation (EU) No 910/2014 [i.1].

This annex should not be taken as definitive statement of conformance to the Regulation (EU) No 910/2014 [i.1]. There are requirements in the Regulation (EU) No 910/2014 [i.1] which are not technical and are then out of scope of the present document, and the present document has not been subject to any legal review.

Table A.1

Regulation article 5.1 Data protection	EU qualified certificate policy reference
"5 1. Processing of personal data shall be carried out in accordance with Directive 95/46/EC."	ETSI EN 319 401 [1], REQ-7.13-05 and note
Regulation article 13.2 Liability and burden of proof	EU qualified certificate policy reference
"13 2. Where trust service providers duly inform their customers in advance of the limitations on the use of the services they provide and where those limitations are recognisable to third parties, trust service providers shall not be liable for damages arising from the use of services exceeding the indicated limitations."	ETSI EN 319 401 [1], REQ-6.2-02 items f) and g)
Regulation article 15 Accessibility for persons with disabilities	EU qualified certificate policy reference
"Where feasible, trust services provided and end-user products used in the provision of those services shall be made accessible for persons with disabilities."	ETSI EN 319 401 [1], REQ-7.13-03 and REQ-7.13-04
Regulation article 19 Security requirements applicable to trust service providers	EU qualified certificate policy reference
"19 1. Qualified and non-qualified trust service providers shall take appropriate technical and organisational measures to manage the risks posed to the security of the trust services they provide. Having regard to the latest technological developments, those measures shall ensure that the level of security is commensurate to the degree of risk."	Clause 6.4 ETSI EN 319 411-1 [2], clause 6.4 ETSI EN 319 401 [1], clauses 5, 6.3 and 7.3 ETSI EN 319 401 [1], clause 7.6 ETSI EN 319 401 [1], REQ-7.4-04A to REQ-7.4-09 ETSI EN 319 401 [1], clause 7.2 ETSI EN 319 401 [1], clause 7.10 ETSI EN 319 401 [1], clauses 7.9 and 7.11 ETSI EN 319 401 [1], clause 7.12 (termination) Clause 6.5 ETSI EN 319 411-1 [2], clause 6.5 ETSI EN 319 401 [1], clause 7.5 ETSI EN 319 401 [1], REQ-7.4-10, REQ-7.8-16 and REQ-7.8-17 ETSI EN 319 401 [1], clause 7.7 ETSI EN 319 401 [1], clause 7.8
"In particular, measures shall be taken to prevent and minimise the impact of security incidents and inform stakeholders of the adverse effects of any such incidents."	ETSI EN 319 411-1 [2], clause 6.4.8 ETSI EN 319 411-1 [2], clause 6.4.8 ETSI EN 319 401 [1], clauses 7.9 and 7.11
"19. 2. Qualified and non-qualified trust service providers shall, without undue delay but in any event within 24 hours after having become aware of it, notify the supervisory body and, where applicable, other relevant bodies, such as the competent national body for information security or the data protection authority, of any breach of security or loss of integrity that has a significant impact on the trust service provided or on the personal data maintained therein. Where the breach of security or loss of integrity is likely to adversely affect a natural or legal person to whom the trusted service has been provided, the trust service provider shall also notify the natural or legal person of the breach of security or loss of integrity without undue delay."	Clause 6.4.8 ETSI EN 319 411-1 [2], clause 6.4.8 ETSI EN 319 401 [1], clauses 7.9 and 7.11

Regulation article 24 Requirements for qualified trust service providers	EU qualified certificate policy reference
<p>"24.1. Verify, by appropriate means and in accordance with national law, the identity and, if applicable, any specific attributes of the natural or legal person to whom the qualified certificate is issued.</p> <p>The information referred to in the first subparagraph shall be verified by the qualified trust service provider either directly or by relying on a third party in accordance with national law:</p> <ul style="list-style-type: none"> (a) by the physical presence of the natural person or of an authorised representative of the legal person; or (b) remotely, using electronic identification means, for which prior to the issuance of the qualified certificate, a physical presence of the natural person or of an authorised representative of the legal person was ensured and which meets the requirements set out in Article 8 with regard to the assurance levels 'substantial' or 'high'; or (c) by means of a certificate of a qualified electronic signature or of a qualified electronic seal issued in compliance with point (a) or (b); or (d) by using other identification methods recognised at national level which provide equivalent assurance in terms of reliability to physical presence. The equivalent assurance shall be confirmed by a conformity assessment body." 	<p>ETSI EN 319 401 [1], clause 7.2 Clause 6.2.2 ETSI EN 319 411-1 [2], clause 6.2.2 Clause 6.2.3 ETSI EN 319 411-1 [2], clause 6.2.3</p>
<p>"24.2 (b) employ staff and, if applicable, subcontractors who possess the necessary expertise, reliability, experience, and qualifications and who have received appropriate training regarding security and personal data protection rules and shall apply administrative and management procedures which correspond to European or international standards."</p>	<p>Clause 6.4.4 ETSI EN 319 411-1 [2], clause 6.4.4 ETSI EN 319 401 [1], clause 7.2</p>
<p>"24.2 (c) with regard to the risk of liability for damages in accordance with Article 13, maintain sufficient financial resources and/or obtain appropriate liability insurance, in accordance with national law;"</p>	<p>Clause 6.8.2 ETSI EN 319 411-1 [2], clause 6.8.2 ETSI EN 319 401 [1], REQ-7.1.1-04</p>
<p>"24.2 (d) before entering into a contractual relationship, inform, in a clear and comprehensive manner, any person seeking to use a qualified trust service of the precise terms and conditions regarding the use of that service, including any limitations on its use;"</p>	<p>ETSI EN 319 411-1 [2], DIS-6.1-04 to DIS-6.1-09 ETSI EN 319 411-1 [2], REG-6.3.4-02 to REG-6.3.4-03 and OVR-6.3.4-04 to OVR-6.3.4-06 Clause 6.9.4 ETSI EN 319 411-1 [2], clause 6.9.4 ETSI EN 319 401 [1] clause 6.2</p>
<p>"24.2 (e) use trustworthy systems and products that are protected against modification and ensure the technical security and reliability of the processes supported by them;"</p>	<p>Clause 6.5 ETSI EN 319 411-1 [2], clause 6.5 ETSI EN 319 401 [1], clause 7.5 ETSI EN 319 401 [1], clause 7.6 ETSI EN 319 401 [1], REQ-7.4-10, REQ-7.8-16 and REQ-7.8-17 ETSI EN 319 401 [1], clause 7.7 ETSI EN 319 401 [1], clause 7.8</p>
<p>"24.2 (f) use trustworthy systems to store data provided to them, in a verifiable form so that:</p> <ul style="list-style-type: none"> (i) they are publicly available for retrieval only where the consent of the person to whom the data relates has been obtained, (ii) only authorised persons can make entries and changes to the stored data, (iii) the data can be checked for authenticity;" 	<p>Clause 6.4.3 ETSI EN 319 411-1 [2], clause 6.4.3</p> <p>Clause 6.4.6 ETSI EN 319 411-1 [2], clause 6.4.6</p> <p>Clause 6.5 ETSI EN 319 411-1 [2], clause 6.5 ETSI EN 319 401 [1], clause 7.5 ETSI EN 319 401 [1], clause 7.6 ETSI EN 319 401 [1], REQ-7.4-10, REQ-7.8-16 and REQ-7.8-17 ETSI EN 319 401 [1], clause 7.7 ETSI EN 319 401 [1], clause 7.8</p>

Regulation article 24 Requirements for qualified trust service providers	EU qualified certificate policy reference
"24.2 (g) take appropriate measures against forgery and theft of data;"	Clause 6.4 ETSI EN 319 411-1 [2], clause 6.4 ETSI EN 319 401 [1], clauses 5, 6.3 and 7.3 ETSI EN 319 401 [1], clause 7.6 ETSI EN 319 401 [1], REQ-7.4-04A to REQ-7.4-09 ETSI EN 319 401 [1], clause 7.2 ETSI EN 319 401 [1], clause 7.10 ETSI EN 319 401 [1], clauses 7.9 and 7.11 ETSI EN 319 401 [1], clause 7.12 (termination) Clause 6.5 ETSI EN 319 411-1 [2], clause 6.5 ETSI EN 319 401 [1], clause 7.5 ETSI EN 319 401 [1], REQ-7.4-10, REQ-7.8-16 and REQ-7.8-17 ETSI EN 319 401 [1], clause 7.7 ETSI EN 319 401 [1], clause 7.8
"24.2 (h) record and keep accessible for an appropriate period of time, including after the activities of the qualified trust service provider have ceased, all relevant information concerning data issued and received by the qualified trust service provider, in particular, for the purpose of providing evidence in legal proceedings and for the purpose of ensuring continuity of the service. Such recording may be done electronically;"	ETSI EN 319 411-1 [2], REG-6.2.2-18 ETSI EN 319 411-1 [2], REG-6.3.4-07, REG-6.3.4-08, and REG-6.3.4-17 ETSI EN 319 411-1 [2], REG-6.3.8-02 ETSI EN 319 411-1 [2], REG-6.4.5-04 Clause 6.4.6 ETSI EN 319 411-1 [2], clause 6.4.6 Clause 6.4.9 in ETSI EN 319 411-1 [2], clause 6.4.9 ETSI EN 319 401 [1], clause 7.12 ETSI EN 319 401 [1], REQ-7.3.2-02
"24.2 (i) have an up-to-date termination plan to ensure continuity of service in accordance with provisions verified by the supervisory body."	Clause 6.4.9 ETSI EN 319 411-1 [2], clause 6.4.9 ETSI EN 319 401 [1], clause 7.12
"24.2 (j) ensure lawful processing of personal data in accordance with Directive 95/46/EC."	Clause 6.8.4 ETSI EN 319 411-1 [2], clause 6.8.4 ETSI EN 319 401 [1], REQ-7.13-05
"24.2 (k) in case of qualified trust service providers issuing qualified certificates, establish and keep updated a certificate database."	Clause 6.1 ETSI EN 319 411-1 [2], clause 6.1
"24.3. If a qualified trust service provider issuing qualified certificates decides to revoke a certificate, it shall register such revocation in its certificate database and publish the revocation status of the certificate in a timely manner, and in any event within 24 hours after the receipt of the request. The revocation shall become effective immediately upon its publication."	Clause 6.2.4 ETSI EN 319 411-1 [2], clause 6.2.4 Clause 6.3.9 ETSI EN 319 411-1 [2], clause 6.3.9
"24.4. With regard to paragraph 3, qualified trust service providers issuing qualified certificates shall provide to any relying party information on the validity or revocation status of qualified certificates issued by them. This information shall be made available at least on a per certificate basis at any time and beyond the validity period of the certificate in an automated manner that is reliable, free of charge and efficient."	Clause 6.3.10 ETSI EN 319 411-1 [2], clause 6.3.10 "free of charge" is out of scope
Regulation article 28 (38) Qualified certificates for electronic signatures (Qualified certificates for electronic seal)	EU qualified certificate policy reference
"28, (38) 3. Qualified certificates for electronic signatures (seals) may include non-mandatory additional specific attributes. Those attributes shall not affect the interoperability and recognition of qualified electronic signatures (seals)."	ETSI EN 319 411-1 [2], clause 6.6.1
"28, (38) 4. If a qualified certificate for electronic signatures (seal) has been revoked after initial activation, it shall lose its validity from the moment of its revocation, and its status shall not in any circumstances be reverted."	ETSI EN 319 411-1 [2], REV-6.3.9-04

Regulation article 28 (38) Qualified certificates for electronic signatures (Qualified certificates for electronic seal)	EU qualified certificate policy reference
"28, (38) 5. Subject to the following conditions, Member States may lay down national rules on temporary suspension of qualified certificates for electronic signatures (seals): (a) if a qualified certificate for electronic signature (seal) has been temporarily suspended that certificate shall lose its validity for the period of suspension; (b) the period of suspension shall be clearly indicated in the certificate database and the suspension status shall be visible, during the period of suspension, from the service providing information on the status of the certificate."	The present document places no restrictions on use of suspension.
Regulation articles 28 1, 38 1 and 45 1; conformity to Annexes I, III and IV specifying requirement for qualified certificates	EU qualified certificate policy reference
Annexes I and III (a) to (i), Annex IV (a) to (j),	GEN-6.6.1-02 ETSI EN 319 411-1 [2], clause 6.6.1
Annexes I and III (j)	GEN-6.6.1-03
Regulation requirement on other TSP than TSP issuing certificates but to be verified by TSP issuing EU qualified certificates	EU qualified certificate policy reference
Article 30 certification of qualified electronic signature creation devices	SDP-6.5.1-02
"Annex II 3: Generating or managing electronic signature creation data on behalf of the signatory may only be done by a qualified trust service provider."	SDP-6.5.1-03
"Annex II 4 qualified trust service providers managing electronic signature creation data on behalf of the signatory may duplicate the electronic signature creation data only for back-up purposes provided the following requirements are met: (a) the security of the duplicated datasets must be at the same level as for the original datasets; (b) the number of duplicated datasets shall not exceed the minimum needed to ensure continuity of the service."	Clause 6.3.12 ETSI EN 319 411-1 [2], clause 6.3.12

Annex B (informative): Conformity Assessment Checklist

A checklist for the policy requirements specified in the present document as well as the generic requirements which are independent of the TSP (as expressed in ETSI EN 319 401 [1]) and independent of the type of certificate issued (as expressed in ETSI EN 319 411-1 [2]) is contained in ETSI TR 119 411-4 [i.10].

The checklist lists the conformity criteria in such a way that it can be used by the TSP itself to prepare for an assessment of its practices against the present document (i.e. serve as a basis for a self-declaration) and/or by the assessor when conducting the assessment, for the sake of facility for both the assessor and the TSP to be assessed.

Annex C (informative): Change history

Date	Version	Information about changes
February 2016	2.1.1	Publication.
June 2017	2.2.0	<p>Below is a non-exhaustive list of the changes carried out since V2.1.1.</p> <ul style="list-style-type: none"> • All requirements numbered as per clause 3.3. • Addition of requirements with regard to revocation (clause 6.2.4) to ensure that date and time associated with the certificate revocation are consistent whatever the revocation status information provided by the TSP. • Addition of requirements with regard to the revocation status services (clause 6.3.10) to ensure that revocation status information is made available beyond the validity period of the certificate in a standard way. • Correction of typos. • Precision of references. • Addition of precisions in annex A.
January 2018	2.2.1	<p>Following ENAP public enquiry, the following changes were made. 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 (v2.2.2) and this version.</p> <p>Adaptation of clause 6.3.10 and CSS-6.3.10-03 in particular to alleviate the need to keep expired certificate from CRL when other means to provide information on the revocation status of expired certificate exist. Addition of conditional obligations when no other means are provided.</p> <p>Annex B modified to point to ETSI TR 119 411-4 [i.10] will contain the checklist.</p>
April 2018	2.2.2	Published version.
September 2020	2.3.0	<p>CR#1 QSCD monitoring.</p> <p>CR#2 Exported requirements of general interest from ETSI EN 319 411-2 to ETSI EN 319-411-1.</p> <p>CR#3 Have references to CABF non-specific.</p> <p>CR#4 OVR-6.3.4-02 note.</p> <p>CR# 5 use of EU Trust List by Relying Parties.</p>
July 2021	2.4.1	CR to ETSI EN 319 411-2 on QWAC based on NCP and CABF Baseline.
April 2023	2.4.2	<p>CR#1 Wrong references to eIDAS article 27 - 37 in clauses 5.5.1 & 5.5.2.</p> <p>CR#2 Clarify QNCP-w (from 411-1 CR#006 and 006Bis).</p> <p>CR#3 Clarify how to keep revocation status after expiry.</p> <p>CR#4 Adapt references in Annex A.</p> <p>CR#5 Adapt history.</p>

History

Document history		
V1.1.1	January 2013	Publication (withdrawn)
V2.0.7	July 2015	Publication as ETSI TS 119 411-2 (withdrawn)
V2.1.1	February 2016	Publication
V2.2.2	April 2018	Publication
V2.3.1	May 2021	Publication
V2.4.1	November 2021	Publication
V2.5.0	July 2023	EN Approval Procedure AP 20231004: 2023-07-06 to 2023-10-04