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Electronic Signatures and Trust Infrastructures (ESI); Certificate Profiles; Part 4: Certificate profile for web site certificates

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This standard includes the English version of the European Standard.

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**Electronic Signatures and Trust Infrastructures (ESI);
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Part 4: Certificate profile for web site certificates**

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Foreword

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

The present document is part 4 of multi-part deliverable covering the Certificates Profiles. Full details of the entire series can be found in part 1 [i.5].

National transposition dates	
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Modal verbs terminology

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

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Introduction

ITU and ISO issued standards for certification of public keys in Recommendation ITU X.509 | ISO/IEC 9594-8 [i.4] which are used for the security of communications and data for a wide range of electronic applications.

Regulation (EU) No 910/2014 [i.3] 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] defines requirements on specific types of certificates named "qualified certificates". Implementation of the Directive 1999/93/EC [i.2] and deployment of certificate infrastructures throughout Europe as well as in countries outside of Europe, have resulted in a variety of certificate implementations for use in public and closed environments, where some are declared as qualified certificates while others are not.

The CA/Browser Forum released the Extended Validation Certificate Guidelines [3] and the Baseline Requirements for the issuance and management of publicly trusted TLS/SSL certificates [2] to mitigate website spoofing attacks.

The present document aims to maximize the interoperability of systems issuing and using certificates both in the European context under the Regulation (EU) No 910/2014 [i.3] and in the wider international environment, also by meeting requirements from CA Browser Forum.

1 Scope

The present document specifies a certificate profile for web site certificates that are accessed by the TLS protocol [i.1].

The profile defined in the present document builds on the CA/Browser Forum Baseline requirements [2], Extended validation guidelines [3] and other parts of the present multi-part deliverable.

The present document focuses on requirements on certificate content. Requirements on decoding and processing rules are limited to aspects required to process certificate content defined in the present document. Further processing requirements are only specified for cases where it adds information that is necessary for the sake of interoperability.

This profile can be used for legal and natural persons. For certificates issued to legal persons, the profile builds on the CAB Forum EV Profile [3] or baseline requirements [2]. For certificates issued to natural persons, the profile builds only on CAB Forum baseline requirements [2].

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>.

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

- [1] [ETSI EN 319 412-5](#): "Electronic Signatures and Infrastructures (ESI); Certificate Profiles; Part 5: QCStatements".
- [2] CA/Browser Forum: "[Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates](#)".
- [3] CA/Browser Forum: "[Guidelines for The Issuance and Management of Extended Validation Certificates](#)".
- [4] [ETSI EN 319 412-2](#): "Electronic Signatures and Infrastructures (ESI); Certificate Profiles; Part 2: Certificate profile for certificates issued to natural persons".
- [5] [ETSI EN 319 412-3](#): "Electronic Signatures and Infrastructures (ESI); Certificate Profiles; Part 3: Certificate profile for certificates issued to legal persons".
- [6] [ETSI EN 319 411-1](#): "Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates; Part 1: General requirements".
- [7] [ETSI EN 319 411-2](#): "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".
- [8] Void.
- [9] CA/Browser Forum: "[Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates](#)".

NOTE: The version for reference [9] is required in WEB-4.1.3-4 to be as referenced in ETSI EN 319 411-1 for [WEB] requirements.

2.2 Informative references

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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] IETF RFC 5246: "The Transport Layer Security (TLS) Protocol Version 1.2".
- [i.2] [Directive 1999/93/EC](#) of the European Parliament and of the Council of 13 December 1999 on a Community framework for electronic signatures.
- [i.3] [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.4] Recommendation ITU-T X.509 | ISO/IEC 9594-8: "Information technology - Open Systems Interconnection - The Directory: Public-key and attribute certificate frameworks".
- [i.5] ETSI EN 319 412-1: "Electronic Signatures and Infrastructures (ESI); Certificate Profiles; Part 1: Overview and common data structures".

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