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Electronic Signatures and Infrastructures (ESI); Certificate Profiles; Part 2: Certificate profile for certificates issued to natural persons

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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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Foreword

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

The present document is part 2 of multi-part deliverable covering the Certificate Profiles. Full details of the entire series can be found in part 1 [i.4].

The present document was previously published as ETSI TS 102 280 [i.8].

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Modal verbs terminology

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Introduction

ITU and ISO issued standards for certification of public keys in Recommendation ITU-T X.509 | ISO/IEC 9594-8 [i.3] which are used for the security of communications and data for a wide range of electronic applications.

Regulation (EU) No 910/2014 [i.5] 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 defines requirements on specific types of certificates named "qualified certificates". Implementation of Directive 1999/93/EC [i.1] 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.

Applications need support from standardized identity certificate profiles, in particular when applications are used for digital signatures, authentication and secure electronic exchange in open environments and international trust scenarios, but also when certificates are used in local application contexts.

This multi-part deliverable aims to maximize the interoperability of systems issuing and using certificates both in the European context under the Regulation (EU) No 910/2014 [i.5] and in the wider international environment.

1 Scope

The present document specifies requirements on the content of certificates issued to natural persons. This profile builds on IETF RFC 5280 [1] for generic profiling of Recommendation ITU-T X.509 [i.3].

This profile supports the requirements of EU Qualified Certificates as specified in the Regulation (EU) No 910/2014 [i.5] as well as other forms of certificate. The scope of the present document is primary limited to facilitate interoperable processing and display of certificate information. This profile therefore excludes support for some certificate information content options, which can be perfectly valid in a local context but which are not regarded as relevant or suitable for use in widely deployed applications.

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.

Certain applications or protocols impose specific requirements on certificate content. The present document is based on the assumption that these requirements are adequately defined by the respective application or protocol. It is therefore outside the scope of the present document to specify such application or protocol specific certificate content.

2 References

2.1 Normative references

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

Referenced documents which are not found to be publicly available in the expected location might be found in the [ETSI docbox](#).

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

- [1] [IETF RFC 5280](#): "Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile".
- [2] [ETSI EN 319 412-5](#): "Electronic Signatures and Trust Infrastructures (ESI); Certificate Profiles; Part 5: QCStatements".
- [3] [IETF RFC 7230 to IETF RFC 7235](#): "Hypertext Transfer Protocol -- HTTP/1.1".
- [4] [IETF RFC 4516](#): "Lightweight Directory Access Protocol (LDAP): Uniform Resource Locator".
- [5] [IETF RFC 2818](#): "HTTP Over TLS".
- [6] [Recommendation ITU-T X.520 \(10/2012\)](#): "Information technology - Open Systems Interconnection - The Directory: Selected attribute types".
- [7] [ICAO Doc 9303](#): "Machine Readable Travel Documents; Part 3: Specifications Common to all MRTDs".
- [8] [IETF RFC 9608](#): "No Revocation Available for X.509 Public Key Certificates".

2.2 Informative references

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

- [i.1] [Directive 1999/93/EC](#) of the European Parliament and of the Council of 13 December 1999 on a Community framework for electronic signatures.
- [i.2] IETF RFC 6960: "X.509 Internet Public Key Infrastructure Online Certificate Status Protocol - OCSP".
- [i.3] Recommendation ITU-T X.509 | ISO/IEC 9594-8: "Information technology - Open Systems Interconnection - The Directory: Public-key and attribute certificate frameworks".
- [i.4] ETSI EN 319 412-1: "Electronic Signatures and Trust Infrastructures (ESI); Certificate Profiles; Part 1: Overview and common data structures".
- [i.5] [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 (eIDAS).
- [i.6] ETSI EN 319 411-2: "Electronic Signatures and Trust Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates; Part 2: Requirements for trust service providers issuing EU qualified certificates".
- [i.7] ETSI TS 119 312: "Electronic Signatures and Trust Infrastructures (ESI); Cryptographic Suites".
- [i.8] ETSI TS 102 280: "X.509 V.3 Certificate Profile for Certificates Issued to Natural Persons".
- [i.9] ETSI TS 119 612: "Electronic Signatures and Trust Infrastructures (ESI); Trusted Lists".
- [i.10] ETSI EN 319 411-1: "Electronic Signatures and Trust Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates; Part 1: General requirements".

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