

Nederlandse norm

NEN-ISO 14533-4

(en)

Processes, data elements and documents in commerce, industry and administration - Long term signature profiles - Part 4: Attributes pointing to (external) proof of existence objects used in long term signature formats (PoE-Attributes) (ISO 14533-4:2019, IDT)

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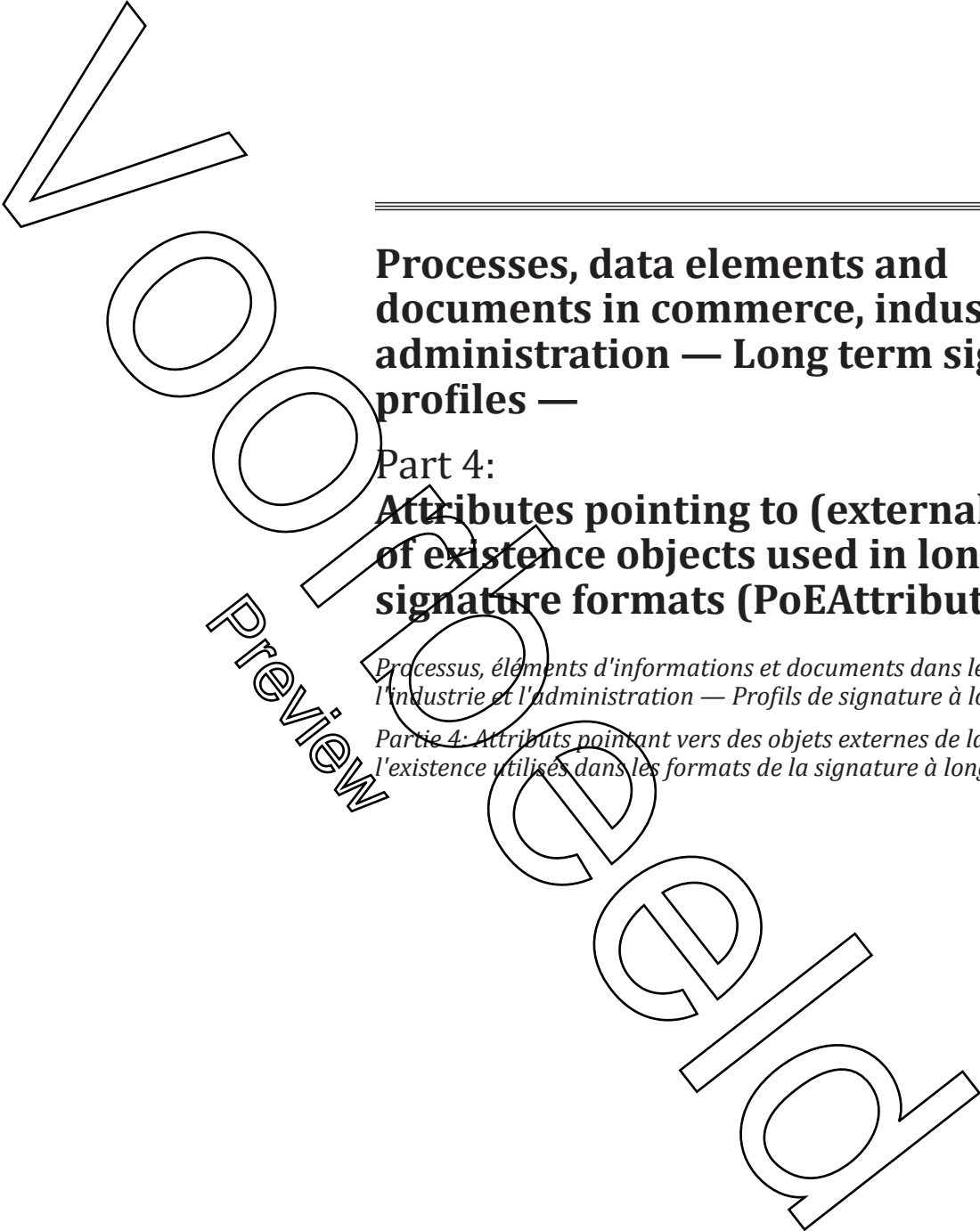
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Processes, data elements and documents in commerce, industry and administration — Long term signature profiles —

Part 4:

Attributes pointing to (external) proof of existence objects used in long term signature formats (PoEAttributes)

Processus, éléments d'informations et documents dans le commerce, l'industrie et l'administration — Profils de signature à long terme —

Partie 4: Attributs pointant vers des objets externes de la Preuve de l'existence utilisés dans les formats de la signature à long terme



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Preview



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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 154, *Processes, data elements and documents in commerce, industry and administration*.

A list of all parts in the ISO 14533 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document provides detailed information associated with the analysis, selection and implementation of procedures associated with long term signatures. The development of this document is a result of organizational requests to receive information of already existing objects defined in technology standards, technical reports, and industry best practices for electronic signatures verifiable for a long term.

The purpose of this document is to ensure the interoperability of implementations with respect to long term signatures that make electronic signatures verifiable for a long term. This document clarifies conditions used in the validation procedure to provide a complete and unalterable result.

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Preview

Processes, data elements and documents in commerce, industry and administration — Long term signature profiles

Part 4: Attributes pointing to (external) proof of existence objects used in long term signature formats (PoEAttributes)

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1 Scope

This document specifies the elements defined in the international standards of ISO/ITU-T, ETSI and IETF RFC that enable at least a proof of existence of data objects and digital signatures and the preservation of the validity status of digital signatures over a long period of time used in validation.

It provides the definitions of the proof of existence (PoE) attributes and clarification of the usage of (external) PoE objects, with digital signatures and trusted time values, which have already existed and can be used by the PoE attributes pointing to (external) PoE objects used in long term signature validation or preservation.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 8825-1¹⁾, *Information technology — ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER) — Part 1*

ISO/IEC 9594-8²⁾, *Information technology — Open Systems Interconnection — The Directory — Part 8: Public-key and attribute certificate frameworks*

ISO 32000-2, *Document management — Portable document format — Part 2: PDF 2.0*

ETSI EN 319 122-1, V1.1.1:2016-04, *Electronic Signatures and Infrastructures (ESI); CAdES digital signatures; Part 1: Building blocks and CAdES baseline signatures*

IETF RFC 3161³⁾, *Timestamp Protocol (TSP)*

IETF RFC 6960⁴⁾, *Online Certificate Status Protocol (OCSP)*

IETF RFC 4648⁵⁾, *The Base16, Base32, and Base64 Data Encodings*

1) Also known as ITU-T Recommendation X.690.

2) Also known as ITU-T Recommendation X.509.

3) Available at <https://tools.ietf.org/html/3161>.

4) Available at <https://tools.ietf.org/html/6960>.

5) Available at <https://tools.ietf.org/html/4648>.

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