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

Part 3: Long term signature profiles for PDF Advanced Electronic Signatures (PAdES)

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

Partie 3: Profils de signature à long terme pour les signatures électroniques avancées PDF (PAdES)

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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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

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.

Introduction

The purpose of this document is to ensure the interoperability of implementations with respect to long-term signatures that make electronic signatures verifiable in the long term. Long-term signature specifications referenced by each implementation cover PDF Advanced Electronic Signatures (PAdES) developed by the European Telecommunications Standards Institute (ETSI).

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

Part 3:
Long term signature profiles for PDF Advanced Electronic Signatures (PAdES)

1 Scope

This document specifies the elements, among those defined in PDF Advanced Electronic Signatures (PAdES), that enable verification of a digital signature over a long period of time.

It does not give new technical specifications about the digital signature itself, nor new restrictions of usage of the technical specifications about the digital signatures which already exist.

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 14533-1, *Processes, data elements and documents in commerce, industry and administration — Long term signature profiles — Part 1: Long term signature profiles for CMS Advanced Electronic Signatures (CAdES)*

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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 14533-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at http://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1
advanced electronic signature
electronic signature which is uniquely linked to the signatory, is capable of identifying the signatory, is created using electronic signature creation data that the signatory can, with high level of confidence, use under his sole control, and is linked to the data signed therewith in such a way that any subsequent change in the data is detectable

4 Abbreviated terms and symbols

The following symbols are used for the “required level”:

— C: Conditional

— M: Mandatory