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Framework for standardization of signatures - Extended structure including electronic identification and authentication

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National foreword

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Rahmen für die Normung von Signaturen - Erweiterte Struktur einschließlich elektronischer Identifizierung und Authentifizierung

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European foreword

This document (CEN/TR 419010:2017) has been prepared by Technical Committee CEN/TC 224 "Personal identification and related personal devices with secure element, systems, operations and privacy in a multi sectorial environment", the secretariat of which is held by AFNOR.

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Introduction

The Digital Agenda for Europe mentions in Pillar I (Digital Single Market) the Action 8 (Revision of the eSignature Directive), and this includes mutual recognition of electronic identification.

The first phase of Standardization Mandate M/460 [27], issued by the Commission to CEN, CENELEC and ETSI for updating the existing eSignature standardization deliverables, produced a rationalized framework to be the entry point for electronic signature standardization and overcome the complexity of standardization landscape within the context of the Signature Directive 1999/93/EC [26], taking into account possible revisions to this Directive, and proposes a future work programme to address any elements identified as missing in this rationalized framework.

To take into account the needs for electronic identification and authentication, identified as a gap from the ETSI/CEN framework for standardization of signatures ETSI/TR 119 000 [23], it was decided to study the standardization landscape around electronic identification and authentication as distinct from electronic signatures, identifying gaps and needs for standardization.

The Commission adopted the Regulation (EU) 910/2014 [27] on electronic identification and trust services for electronic transactions in the internal market on 23rd July 2014, to provide a legal framework which includes consistent and coherent provisions on electronic identification and trust services in order to overcome the deficiencies of the eSignatures Directive 1999/93/EC [26] and to provide legal measures on cross-border mutual recognition and acceptance of national eIDs.

The Commission published CIR 2015/1502 [30] on assurance levels for electronic identification means and CIR 2015/1501 [29] on interoperability framework to help the development of interoperable identity schemes across MS.

The eIDAS Expert Group has published a set of technical specifications [31] for the eIDAS interoperability framework, including a document of architecture and a document of cryptographic requirements, to complement the CIR 2015/1501 [29]. This is considered to address the interoperability requirements for use of eIDs across Europe.

This document analyses the impact of these two CIRs firstly on the already published standards identified in the ETSI/CEN framework for standardization of signatures ETSI/TR 119 000 [23] and secondly on potential requirements for further standards for harmonizing national approaches to identification and authentication as a new area in the ETSI/CEN framework for standardization of signatures ETSI/TR 119 000 [23].

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