Irish Standard Recommendation
S.R. CEN/TS 419261:2015

Security requirements for trustworthy systems managing certificates and time-stamps

S.R. CEN/TS 419261:2015

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This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

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TECHNICAL SPECIFICATION

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English Version

Security requirements for trustworthy systems managing certificates and time-stamps

Exigences de sécurité pour systèmes de confiance gérant des certificats et des horodatages

Sicherheitsanforderungen für vertrauenswürdige Systeme zur Verwaltung von Zertifikaten für elektronische Signaturen und Zeitstempel

This Technical Specification (CEN/TS) was approved by CEN on 18 November 2014 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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Foreword

This document (CEN/TS 419261:2015) has been prepared by Technical Committee CEN/TC 224 “Personal identification, electronic signature and cards and their related systems and operations”, the secretariat of which is held by AFNOR.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

Successful implementation of European Directive 1999/93/EC on a Community framework for electronic signatures [Dir.1999/93/EC] and of 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 [Reg.910/2014/EU] requires standards for services, processes, systems and products related to electronic signatures as well as guidance for conformity assessment of such services, processes, systems and products.

NOTE According to Article 50 of Reg.910/2014/EU Directive 1999/93/EC is repealed with effect from 1 July 2016 and references to the repealed Directive shall be construed as references to the Regulation.

In 1999 the European Information and Communications Technologies Standards Board, with the support of the European Commission, undertook an initiative bringing together industry and public authorities, experts and other market players, to create the European Electronic Signature Standardization Initiative (EESSI).

Within this framework the Comité Européen de Normalization / Information Society Standardization System (CEN/ISSS) and the European Telecommunications Standards Institute / Electronic Signatures and Infrastructures (ETSI/ESI) were entrusted with the execution of a work programme to develop generally recognized standards to support the implementation of [Dir.1999/93/EC] and development of a European electronic signature infrastructure.

The CEN/ISSS Workshop on electronic signatures (WS/E-SIGN) resulted in a set of deliverables, CEN Workshop Agreements (CWA), which contributed towards those generally recognized standards.

In 2011 the European Commission (EC) with the support of the European Free Trade Association has signed a specific grant agreement with the European Committee for Standardization (CEN) regarding the update of the existing European e-Signature CEN Workshop Agreements (CWAs) in the framework of Phase 1 of the mandate M/460. The present document is such a CEN Workshop Agreement that was first created as a CWA and then updated into a Technical Specification (TS).

The purpose of this TS is to describe the security requirements for trustworthy systems managing certificates for electronic signatures and to define overall system security requirements, whereas EN 419221 specifies security requirements for cryptographic devices. The requirements were partly inspired by Common Criteria [CC] Part 2, but the TS is not compliant to [CC], as e.g. EN 419221. In consequence, this TS cannot be used to perform Common Criteria certifications of products.

The TS is intended for use by designers and developers of systems managing certificates and time-stamps, as well as customers of such systems.

Executive Summary

This Technical Specification specifies security requirements on products and technology components, used by Trust Service Providers (TSPs) for issuing and managing certificates as well as electronic time-stamps in the sense of the 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 [Reg.910/2014/EU].