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Guidance for signature creation and other related devices

Táto technická normalizačná informácia obsahuje anglickú verziu CEN/TR 419200:2017.  
This Technical standard information includes the English version of CEN/TR 419200:2017.

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**TECHNICAL REPORT****CEN/TR 419200****RAPPORT TECHNIQUE****TECHNISCHER BERICHT**

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English Version

**Guidance for signature creation and other related devices**Lignes directrices pour la création de signatures et  
autres dispositifs associésAnleitung zur Signaturerstellung und andere ähnliche  
Geräte

This Technical Report was approved by CEN on 17 April 2017. It has been drawn up by the Technical Committee CEN/TC 224.

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**CEN/TR 419200:2017 (E)**

<b>Contents</b>	<b>Page</b>
<b>European foreword</b> .....	<b>4</b>
<b>Introduction</b> .....	<b>5</b>
<b>1 Scope</b> .....	<b>6</b>
<b>2 Terms and definitions</b> .....	<b>6</b>
<b>3 Symbols and abbreviations</b> .....	<b>7</b>
<b>4 Some concepts related to signature creation and other related devices</b> .....	<b>8</b>
<b>4.1 Different types of signatures and seals</b> .....	<b>8</b>
<b>4.2 Signature versus seal</b> .....	<b>8</b>
<b>4.3 What are a signature creation device or other related devices</b> .....	<b>8</b>
<b>4.3.1 General</b> .....	<b>8</b>
<b>4.3.2 Qualified electronic signature creation device</b> .....	<b>8</b>
<b>4.3.3 Qualified electronic seal creation device</b> .....	<b>10</b>
<b>4.4 Trusted versus un-trusted environment for electronic signature</b> .....	<b>10</b>
<b>4.5 Mobile environment</b> .....	<b>11</b>
<b>5 Types of services related to signature – Scoping factors</b> .....	<b>11</b>
<b>5.1 General</b> .....	<b>11</b>
<b>5.2 Services related to signature for a QSCD</b> .....	<b>12</b>
<b>5.2.1 General</b> .....	<b>12</b>
<b>5.2.2 Signature service</b> .....	<b>12</b>
<b>5.2.3 Privacy aspects</b> .....	<b>12</b>
<b>5.2.4 Identification service</b> .....	<b>14</b>
<b>5.2.5 Authentication service</b> .....	<b>14</b>
<b>5.2.6 Other potential services</b> .....	<b>14</b>
<b>5.3 Services related to signature for a TSP</b> .....	<b>16</b>
<b>5.3.1 General</b> .....	<b>16</b>
<b>5.3.2 Signature service</b> .....	<b>16</b>
<b>5.3.3 Certification Authority service</b> .....	<b>17</b>
<b>5.3.4 Other services</b> .....	<b>17</b>
<b>6 Selecting the Most Appropriate Standards and options</b> .....	<b>17</b>
<b>6.1 Sub-Areas of Standardization</b> .....	<b>17</b>
<b>6.1.1 General</b> .....	<b>17</b>
<b>6.1.2 Policy and security Requirements</b> .....	<b>18</b>
<b>6.1.3 Technical Specifications</b> .....	<b>20</b>
<b>6.1.4 Conformity Assessment</b> .....	<b>20</b>
<b>6.1.5 Interoperability Testing</b> .....	<b>20</b>
<b>6.2 Selection of standards</b> .....	<b>21</b>
<b>Annex A (informative) Business aspects/ Use cases from signature creation devices view</b> .....	<b>22</b>
<b>A.1 General</b> .....	<b>22</b>
<b>A.2 Telecommunications</b> .....	<b>22</b>
<b>A.3 Identity</b> .....	<b>22</b>
<b>A.4 Health</b> .....	<b>23</b>
<b>A.5 Corporate</b> .....	<b>23</b>
<b>A.6 Bank</b> .....	<b>24</b>

<b>Annex B (informative) Illustration of Application of Standards.....</b>	<b>25</b>
<b>B.1 General .....</b>	<b>25</b>
<b>B.2 Telecommunications.....</b>	<b>25</b>
<b>B.2.1 First example.....</b>	<b>25</b>
<b>B.2.2 Second example.....</b>	<b>25</b>
<b>B.3 Identity .....</b>	<b>25</b>
<b>B.3.1 General .....</b>	<b>25</b>
<b>B.3.2 First example.....</b>	<b>26</b>
<b>B.3.3 Second example.....</b>	<b>26</b>
<b>B.3.4 Third example.....</b>	<b>27</b>
<b>B.4 Health.....</b>	<b>27</b>
<b>B.4.1 First example.....</b>	<b>27</b>
<b>B.4.2 Second example.....</b>	<b>28</b>
<b>B.5 Corporate.....</b>	<b>28</b>
<b>B.5.1 First example.....</b>	<b>28</b>
<b>B.5.2 Second example.....</b>	<b>28</b>
<b>B.6 Bank.....</b>	<b>28</b>
<b>B.6.1 First example.....</b>	<b>28</b>
<b>B.6.2 Second example.....</b>	<b>29</b>
<b>Annex C (informative) Comparison of definitions between Directive 1999/93/EC and Regulation (EU) 910/2014.....</b>	<b>30</b>
<b>Bibliography .....</b>	<b>32</b>

**CEN/TR 419200:2017 (E)****European foreword**

This document (CEN/TR 419200:2017) 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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

## **Introduction**

ETSI/TR 119 000 [16] provides a general structure for electronic signatures standardization outlining existing and potential standards for electronic signatures. This identifies six areas of standardization with a list of existing and potential future standards in each area.

This guide is part of a series of guidance documents assisting users and their suppliers in identifying the electronic signature standards and options relevant to their need. Each guide addresses a particular area as identified in ETSI/TR 119 000 [16].

This series is based on the process of selecting Business Scoping Parameters for each area of standardization based on an analysis of the business requirements. The selection of these scoping parameters is based on a process involving an analysis of the business requirements and associated risks leading to an identification of the policy and security requirements and the resulting Business Scoping Parameters from which the appropriate standards and options can be selected. Having identified the requirements in terms of Business Scoping Parameters for an area, each guidance document provides assistance in selecting the appropriate standards and options for that area. Where standards and options within one area make use of another area this is stated in terms of Scoping Parameters of that other area.

This guidance does not include any normative requirements but provides guidance on addressing the signature creation and other related devices area, on the selection of applicable standards and their options for a particular business implementation context and associated business requirements and on the implementation of a standard (or a series of standards).

This area covers signature devices but also electronic signature-related devices including (not exhaustively) authentication devices, identity devices offering value added services around electronic signatures. This list can be extended as further services that could be listed for devices are identified.

This general process of the selection of standards and options is described further in ETSI/TR 119 000:2015, 4.2.6 [16].

**CEN/TR 419200:2017 (E)**

## 1 Scope

The Technical Report provides guidance on the selection of standards and options for the signature/seal creation and other related devices (area 2) as identified in the framework for standardization of signatures: overview ETSI/TR 119 000 [16].

The Technical Report describes the Business Scoping Parameters relevant to this area (see Clause 5) and how the relevant standards and options for this area can be identified given the Business Scoping Parameters (Clause 6).

The target audience of this document includes:

- business managers who potentially require support from electronic signatures/seals in their business and will find here an explanation of how electronic signatures/seals standards can be used to meet their business needs;
- application architects who will find here material that will guide them throughout the process of designing a system that fully and properly satisfies all the business and legal/regulatory requirements specific to electronic signatures/seals, and will gain a better understanding on how to select the appropriate standards to be implemented and/or used;
- developers of the systems who will find in this document an understanding of the reasons that lead the systems to be designed as they were, as well as a proper knowledge of the standards that exist in the field and that they need to know in detail for a proper development.

## 2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

NOTE Legal definitions (from Directive 1999/93/EC [20] or Regulation (EU) 910/2014 [21]) relative to this document can be found in Annex C.

### 2.1 secure element

**SE**  
tamper resistant component used to provide security, confidentiality, and multiple application environment required to support various business models

EXAMPLE UICC, embedded SE, smartSD, smart microSD, etc.

### 2.2 trusted execution environment

**TEE**  
specific execution environment on the mobile phone (or any connected device) application processor that is made of both software and, depending of the support of the processor, hardware parts, to manage the access control to the memory management unit and define a boundary between secure and unsecure (mobile OS) execution environment

### 2.3 trusted user interface

**TUI**  
means to securely address user interaction for sensitive applications through the display, keyboard, microphone, etc.

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**