CEF eSignature's ETSI Signature Conformance Checker

Version 0.03

Service Offering Description

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0.02	02/08/2017	Michaël de Boer	Minor changes
0.03	03/08/2017	Olivier Barette	Update after CEF PAO review

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APPROACH AND PURPOSE OF THE DOCUMENT

The present document is the Service Offering Description (SOD) of the ETSI Signature Conformance Checker service of the Connecting Europe Facility's (CEF) eSignature building block. Key content includes an explanation of the roles and responsibilities and the process description of eSignature's ETSI Signature Conformance Checker service.

This document is intended for service providers (e-signature implementers).

Glossary

The key terms used in this Service Offering Description are defined in the CEF Definitions section on the CEF Digital Single Web Portal:

https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/CEF+Definitions

The key acronyms used in this Service Offering Description are defined in the CEF Glossary on the CEF Digital Single Web Portal:

https://ec.europa.eu/cefdigital/wiki/pages/viewpage.action?spaceKey=CEFDIGITAL&title=CEF+Glossary

1. INTRODUCTION

CEF eSignature helps public administrations and businesses to accelerate the creation and verification of electronic signatures. The deployment of solutions based on this building block in a Member State facilitates the mutual recognition and cross-border interoperability of electronic signatures, so that their legal value can be recognised in countries other than the country of origin of the signer.

1.1. Purpose of the service

The ETSI eSignature conformance checker verifies the conformity of electronic signatures against the following ETSI standards:

- XAdES (XML Advanced Electronic Signature ETSI 101 903, TS 103 171 and EN 319 132-1&2)

- CAdES (CMS Advanced Electronic Signature ETSI TS 101 733 and EN 319 122-1&2)

- ASiC (Associated Signature Container ETSI TS 102 918 and EN 319 162-1&2)

- PAdES (PDF Advanced Electronic Signature ETSI TS 102 778 and EN 319 142-1&2)

More information on the ETSI Signature Conformance Checker can be found on the CEF portal at https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/DSS+Conformance+testing.

A list of key terminology related to the CEF eSignature's ETSI Signature Conformance Checker is defined in the table below.

Terminology	Definition
DSS	Digital Signature Services
QSCD	Qualified signature creation device
e-seal	Electronic seal
e-signature	Electronic signature

Table 1 - CEF eSignature ETSI Signature Conformance Checker Key Terminology

1.2. Users

The CEF eSignature's ETSI Signature Conformance Checker service is intended for the following type of users:

- Service Providers (e-signature implementers)

1.3. Scope

The scope of the ETSI Signature Conformance Checker is to support eSignature implementers, and in particular those seeking conformance with Commission Implementing Decision 2015/1506/EU.

1.4. Benefits

The CEF eSignature's ETSI Signature Conformance Checker delivers the following benefits to its users:

- **Ease of use**: the ETSI Signature Conformance Checker is a ready-to-use web application, where you can upload a signature or seal for verification against ETSI's e-signature standards, and download the results.

- **Conformity to the standard:** the ETSI Signature Conformance Checker is developed by ETSI, so that it is assured that the ETSI es-ignature standards and the Conformance Checker are aligned.

2. ROLES AND RESPONSIBILITIES

This section describes the main roles in CEF eSignature's ETSI Signature Conformance Checker service and their responsibilities.

The following table summarises the split of roles and responsibilities between the different actors in CEF eSignature's ETSI Signature Conformance Checker process in the form of a RACI matrix where:

- **Responsible (R):** indicates the entities that performs the process-step. Every process-step has at least one responsible entity. Responsibilities can also be shared.

- **Accountable (A):** indicates the entity that is ultimately accountable for the process-step. Every process-step has only one accountable entity.

- **Consulted (C):** indicates the entities that give feedback or are consulted during the process-step. This is a two-way process. Not every process-step has an entity that is being consulted.

- **Informed (I):** indicates the entities that need to be informed on the results of the process-step. This is a one-way process. Not every process-step has an entity that is being informed.

The process is described in detail in Section 3.

Process/Service	Responsible Entity		
	ETSI	**CEF eSignature**	**eSignature implementer**
Hosting	R / A		I
Maintenance	R / A		
Support		R / A	
Registration	R / A	R	R
Verification of an e-signature			R / A

<div align="center">Table 2 – CEF eSignature's ETSI Signature Conformance Checker Roles and Responsibilities</div>

2.1. ETSI

Role: Host and maintain the conformance checker. Register new users.

Responsibilities:

- Host the tool.
- Maintain the tool.

- Register new users.

2.2. CEF eSignature

Role: Provide support to users.

Responsibilities:

- Provide support and explanations on how to use the tool.

2.3. eSignature implementer

Role: Check e-signature.

Responsibilities:

- Submit an e-signature for testing.
- Implement corrections in implementation after testing.

3. HOW TO USE THE SERVICE STEP BY STEP

This section describes the processes that are part of CEF eSignature's ETSI Signature Conformance Checker service.

3.1. Step 0: Set-up

Purpose: Grant access to the ETSI Signature Conformance Checker to e-signature implementers

Actors:

- E-signature implementer.

- CEF eSignature team and/or ETSI.

Process:

1. Access can be asked directly to ETSI via http://212.234.160.9/pub/index.shtml or via CEF eSignature by sending an email to CEF-ESIGNATURE-SUPPORT@ec.europa.eu.

3.2. Step 1: Using the eSignature Conformance Checker

Purpose: Check the conformance of an e-signature.

Actors:

- E-signature implementer.

Process:

1. Connect to ETSI TLCC on http://212.234.160.9/pub/index.shtml.

2. Upload an e-signature.

3. Check conformance problems and apply corrections to the e-signature implementation.

4. TERMS AND CONDITIONS

The general terms and conditions of the CEF Building Blocks can be consulted in the Master Service Arrangement, available on the CEF Digital Single Web Portal:

https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/Operations

5. ANNEX

Not applicable

6. CONTACT INFORMATION

CEF eSignature Support Team

For more information on the provided support, refer to:

https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/eSignature+Service+desk

For general question on the CEF eSignature building block:

CEF-ESIGNATURE-SUPPORT@ec.europa.eu