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| ToR SPLU 173 (Ref. Body TC ESI) |
| Version: 2.0 |
| Author: Laurent Velez – Date: 2022-02-01 |
| Last updated by: ETSI Secretariat – Date: 2022-02-14 |
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**Terms of Reference –PLUGTESTSTM Technical Proposal**

**SPLU 173 (Ref. Body TC ESI)**

**eSignature Validation Plugtests 2022**

**Summary information**

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| --- | --- | --- |
| Event Name | eSignature Validation Plugtests 2022 | |
| Event start date | 16 May 2022 | |
| Event end date | 10 June 2022 | |
| Format of the event | signature validation | |
| Type of event | remotely | |
| Place of the Event (if so) |  | |
| Reference Body /ISG involved | Ref. Body TC ESI | |
| In collaboration with/with the support of | EC (eIDAS regulation) | |
| Standardised methodologies, techniques and best practices used: | • EG 202 237: Generic Methodology for Interoperability Testing | |
| ETSI Funding | **Maximum budget : 25 000 EUR** | |
| Time scale | **From** | 2022-03-14 |
| **To** | 2022-07-31 |

Part I –Technical Proposal

# Rationale & Objectives

European Union Member States has put in place the necessary technical means allowing them to process electronically signed documents that are required when using an online service offered by, or on behalf of, a public sector body.

Regulation (EU) No 910/2014[[1]](#footnote-1) (eIDAS Regulation) in relation to trust services provides for Member States requiring an advanced electronic signature or seal for the use of an online service offered by, or on behalf of, a public sector body, to recognize advanced electronic signatures and seals, advanced electronic signatures and seals based on a qualified certificate and qualified electronic signatures and seals in specific formats, or alternative formats validated pursuant to specific reference methods.

The testing of Digital Signature validation solutions is mainly done at Member States’ level based on their national tools (eID cards, secure signature creation devices), solutions, policy options (signature validation policies). In order to ensure that the cross-border dimension is working in practice, more testing needs to be done to mutually check Member States’ signatures against their existing Digital Signature validation applications.

To allow such testing to happen, it is proposed to organize eSignature Validation Plugtests. The aim of the event is to check the interoperability of digital signatures and the validation capacities of the participants in order to help them detect possible issues which may lead to different validation results.  
  
The interoperability testing will allow participants to test their digital signature validation tools and to cross-validate ETSI Electronic Signatures/Seals relying on EU Member States' Trusted Lists (based on TS 119 612 and TS 119 615) and according to the following standards:

* European Standard EN 319 102-1 (Procedures for Creation and Validation of AdES Digital Signatures; Part 1: Creation and Validation)
* TS 119 102-2 (Procedures for Creation and Validation of AdES Digital Signatures; Part 2: Signature Validation Report)
* TS 119 172-4 (Signature Validation Policy for European Qualified Electronic Signatures/Seals Using Trusted Lists)

All AdES Signature formats/containers will be addressed (XAdES, PAdES, CAdES, ASiC and JAdES) as follows:

* + EN 319 132-1 and ETSI TS 103 171 for XAdES: XML Digital Signature
  + EN 319 142-1 and ETSI TS 103 172 for PAdES: PDF Digital Signature
  + EN 319 122-1 and ETSI TS 103 173 for CAdES: CMS Digital Signature
  + EN 319 162-1 and ETSI TS 103 174 for ASiC: Associated Signature Container
  + TS 119 182-1 JAdES JSON Digital Signature

# Expertise required / Budget allocated

## Task summary

**Task description:**

|  |  |
| --- | --- |
| **Task**  **No.** | **Task description** |
| T0 | Developing interoperability tests for Signature creation and Validation. |
| T1 | Developing a signature portal, based on the portal used for previous Plugtests. New functionalities and capabilities would be required. Enhancements in performance and security are also foreseen. |
| T2 | Supporting the preparation and remote integration phases, including participation to regular conference-calls; |
| T3 | Support to participants to portal updates and issues. |
| T4 | Answering participants’ questions on the testing and on the specifications; |
| T5 | Assisting with the consolidation and formatting of the test results and reported issues for the production of the Plugtests Report. |

## Expertise required / Team structure

(Up to) 4 participants to ensure the following mix of competences:

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| --- | --- |
| **Priority** | **Qualifications and competences** *(example here below)* |
| High | Practical experience with Advanced Electronic Signature Testing |
| High | Expertise in all the ETSI TC ESI Specifications covered by the testing |
| High | Experience with Signature Plugtests portal and infrastructure |
| High | Programming skills in interpreted languages (PHP, JavaScript, XLST, Bash) |
| High | Previous experience in interoperability events. Familiar with the ETSI interoperability testing methodology. |

## Budget allocated:

**Budget table:**

|  |  |  |
| --- | --- | --- |
| **Task**  **No.** | **Task description** | **Total in EUR** |
| T0 | Developing interoperability tests for Signature creation and Validation. | 4 000 |
| T1 | Developing a signature portal, based on the portal used for previous Plugtests. New functionalities and capabilities would be required. Enhancements in performance and security are also foreseen. | 5 000 |
| T2 | Supporting the preparation and remote integration phases, including participation to regular conference-calls; | 2 000 |
| T3 | Support to participants to portal updates and issues. | 2 000 |
| T4 | Answering participants’ questions on the testing and on the specifications; | 6 500 |
| T5 | Assisting with the consolidation and formatting of the test results and reported issues for the production of the Plugtests Report. | 5 500 |
| **TOTAL** | | **25 000** |

**Milestones:**

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| --- | --- | --- |
| **Milestone** | **Description** | **Cut-off Date** |
| Milestone A | T0: Developing interoperability tests for Signature creation and Validation.  T1: Developing a signature portal, based on the portal used for previous Plugtests. New functionalities and capabilities would be required. Enhancements in performance and security are also foreseen.  T2: Supporting the preparation and remote integration phases, including participation to regular conference-calls | **13/05/2022** |
| Milestone B | T3: Support to participants to portal updates and issues.  T4: Answering participants’ questions on the testing and on the specifications. | **30/06/2022** |
| Milestone C | T5: Assisting with the consolidation and formatting of the test results and reported issues for the production of the Plugtests Report. | **31/07/2022** |

# Document history

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| --- | --- | --- | --- | --- |
|  | **Date** | **Author** | **Status** | **Comments** |
| 1.0 | 2022-02-01 | Laurent Velez |  |  |
| 2.0 | 2022-02-14 | ETSI Secretariat | Final | Update before CL publication |

1. OJ L 257, 28.8.2014, p. 73–114. [↑](#footnote-ref-1)