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| ToR SPLU 183 (Ref. Body TC ESI) |
| Version: 1.1 |
| Author: Laurent Velez – Date: 2023-05-03 |
| Last updated by: ETSI Secretariat – Date: 2023-05-11 |
| page 1 of 4 |

**Terms of Reference –PLUGTESTSTM Technical Proposal**

**SPLU 183 (Ref. Body TC ESI)**

**LTA Signature Augmentation and Validation Plugtests 2023**

**Summary information**

|  |  |  |
| --- | --- | --- |
| Event Name | LTA Signature Augmentation and Validation Plugtests 2023 | |
| Event start date | 23 October 2023 | |
| Event end date | 24 November 2023 | |
| 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 : 28 000 EUR** | |
| Time scale | **From** | 2023-07-01 |
| **To** | 2024-02-28 |

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] (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[2].

The testing of Digital Signature augmentation and 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 LTA Augmentation and Validation Plugtests. The aim of the event is to check the interoperability of digital signatures in particular of LTA level ones and the augmentation and validation capacities of the participants in order to help them detect possible issues which may lead to different augmentation and/or validation results.

The interoperability testing will allow participants to test their digital signature augmentation and validation tools and to augment and 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/-2 and ETSI TS 103 171 for XAdES: XML Digital Signature
* EN 319 142-1/-2 and ETSI TS 103 172 for PAdES: PDF Digital Signature
* EN 319 122-1/-2 and ETSI TS 103 173 for CAdES: CMS Digital Signature
* EN 319 162-1/-2 and ETSI TS 103 174 for ASiC: Associated Signature Container
* TS 119 182-1 JAdES JSON Digital Signature
* TS 119 122-3 Incorporation of Evidence Record Syntax (ERS) mechanisms in CAdES
* TS 119 132-3 Incorporation of Evidence Record Syntax (ERS) mechanisms in XAdES

# Expertise required / Budget allocated

## Task summary

**Task description:**

|  |  |
| --- | --- |
| **Task**  **No.** | **Task description** |
| T0 | Technical Project Management |
| T1 | Developing interoperability tests for Signature creation and Validation. |
| T2 | 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. |
| T3 | Supporting the preparation and remote integration phases, including participation to regular conference-calls; |
| T4 | Support to participants to portal updates and issues. |
| T5 | Answering participants’ questions on the testing and on the specifications; |
| T6 | Assisting with the consolidation and formatting of the test results and reported issues for the production of the Plugtests Report. |
| T7 | Development and maintenance of signature conformance checker tools supporting the testing |

## Expertise required / Team structure

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

|  |  |
| --- | --- |
| **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 (Linux, PHP, JavaScript, XLST, Bash, Security, Python) |
| 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 | Technical Project Management | ETSI CTI |
| T1 | Developing interoperability tests for Signature creation and Validation. | 4 000 |
| T2 | 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 |
| T3 | Supporting the preparation and remote integration phases, including participation to regular conference-calls; | 2 100 |
| T4 | Support to participants to portal updates and issues. | 2 000 |
| T5 | Answering participants’ questions on the testing and on the specifications; | 7 300 |
| T6 | Assisting with the consolidation and formatting of the test results and reported issues for the production of the Plugtests Report. | 4 600 |
| T7 | Development and maintenance of tools supporting the testing | 3 000 |
| **TOTAL** | | **28 000** |

**Milestones:**

|  |  |  |
| --- | --- | --- |
| **Milestone** | **Description** | **Cut-off Date** |
| Milestone A | T1: Developing interoperability tests for Signature creation and Validation.  T2: 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.  T3: Supporting the preparation and remote integration phases, including participation to regular conference-calls | **22/10/2023** |
| Milestone B | T4: Support to participants to portal updates and issues.  T5: Answering participants’ questions on the testing and on the specifications. | **10/12/2023** |
| Milestone C | T6: Assisting with the consolidation and formatting of the test results and reported issues for the production of the Plugtests Report. | **31/01/2024** |
| Milestone D | T7: Development and Maintenance of tools in support of the creation and validation of signatures | **28/02/2024** |

# Document history

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Date** | **Author** | **Status** | **Comments** |
| 1.0 | 2023-05-03 | Laurent Velez |  |  |
| 1.1 | 2023-05-11 | ETSI Secretariat | Final | Update before CL publication |

Annex I Response to the Request for Proposals  
CfE – SPLU 183 (TC ESI) Deadline: 14/06/2023

|  |  |
| --- | --- |
| **Contractor name \***  *Indicate the Company/Organization Name* |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Contractor information \*** | | | | |
| **Contact person for the technical aspects** | | **Contact person for Decision on ETSI financial offer to this project (if any)** | | |
| Title |  | Title |  | |
| First name |  | First name |  | |
| Last name |  | Last name |  | |
| Role |  | Role |  | |
| e-mail |  | e-mail |  | |
| Phone |  | Phone |  | |
|  | | | | |
|  | | **Yes** | | **No** |
| Do you or any employee of your Company/Organization hold an elected or appointed position in the Reference Body requesting the SPLU 183 creation? | | o  Indicate in which position:  ----------------------------------- | | o |
| **If you are self-employed candidate:**  Do you currently have other contracts in progress with ETSI? | | o | | o |

**1.1 Introduction**

A short presentation of the technical structure responsible for this activity, e.g.:

* Business area, number of employees, link to WEB site,
* Department(s)/team(s)/experts in charge of the technical activities related to this Project,
* Motivation for your Company/Organization or supporting Member to participate in the Project.

**1.2 Proposed approach**

**Proposed contribution to tasks & related cost**

Identify the tasks to which your Company/Organization is proposing to contribute by filling-in the table below:

| **Tasks No** | **Tasks Description** | **Max Budget Allocated in Euro** | **Amount in Euro (mandatory)** | **% of whole Task (mandatory)** |
| --- | --- | --- | --- | --- |
| T0 | Technical Project Management | 0 | . | . |
| T1 | Developing interoperability tests for Signature creation and Validation. | 4 000 | . | . |
| T2 | 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 | . | . |
| T3 | Supporting the preparation and remote integration phases, including participation to regular conference-calls; | 2 100 | . | . |
| T4 | Support to participants to portal updates and issues. | 2 000 | . | . |
| T5 | Answering participants’ questions on the testing and on the specifications; | 7 300 | . | . |
| **TOTAL** | | **28 000** |  |  |

**Amount in Euro (mandatory)**: Indicate the price offered for your contribution to the task(s)

**% of whole task (mandatory)**: Indicate to which percentage of the execution of the whole task your offer corresponds

Provide a description of the proposed approach, competences, reference to related activities:

* Explain which part of the task is corresponding to the requested percentage that your Company/Organization will handle,
* Explain the scope that your Company/Organization will cover,
* Explain your approach to the management of the quality and,
* Explain your approach to the management of the risks and their mitigation,
* Describe and justify the proposed costs to achieve this project objectives.

Annex II Terms and Conditions  
CfE – SPLU 183 (TC ESI) Deadline: 14/06/2023

**2.1 Submission of Proposals**

All proposals in response to this CfE shall be submitted before the deadline indicated in thisCollective Letter, using exclusively the WEB application on the ETSI Portal at the following address: <https://portal.etsi.org/cfe>.

Proposals shall be composed of Curriculum Vitae of the proposed service providers’ personnel and the Annex I of this CfE duly filled-out.

Proposals that will be partial or incomplete at the deadline will not be accepted.

The Terms and Conditions in this Annex will apply.

**2.2 Modification and Withdrawal of Proposals**

Applicants may, without prejudice to themselves, modify or withdraw their proposal by written request, provided that the request is received by ETSI prior to the due date and time, at the address to which their proposal was submitted. The applicant may submit a new proposal provided that such new proposal is received prior to the deadline for responding which is specified in this Collective Letter.

**2.3 Assessment of Proposals**

The ETSI Director-General, in consultation with the CTI Director, is responsible for the selection of the service providers that will be contracted to perform the Project work. The ETSI Director-General and the CTI Director may be assisted by a Selection Panel to assess the applications received and make the final decision.

As per article 1.10.4 of the ETSI Directives, the Director-General may discard proposals that could be identified as creating potential conflict of interest.

The ETSI Secretariat will only communicate to the applicants the result of the selection (accepted or not accepted). Should applicants need more information on the rationale for the selection, they must address a formal request to the ETSI Director-General.

The following evaluation criteria will be applied to all proposals, in order of priority:

* Evidence that the applicant has the necessary structure and expertise to ensure delivery
* Reference to current or previous activities in the specific technical domain of this project
* Critical review of the most efficient way to achieve the objectives in the Project’s ToR
* Effective proposed approach/methodology for the execution of the tasks
* Implementation schedule
* Clear pricing policy

Compliance with the first two (2) criteria is mandatory.

Proposals that are not considered compliant with these criteria will be discarded.

Priority will be given to technical quality of the proposals. Pricing considerations will be taken into account to ensure that the best value for money is achieved. Compatibility with the maximum budget allocated to this STF will be verified before placing a Service Contract.

Following the assessment process, ETSI reserves the right to grant contracts to other than the cheapest proposals, to accept or reject any offer completely or in part, or to reject all proposals, without providing the reasons. If no offer is accepted, ETSI may decide to abandon the work or proceed in any other manner ETSI may select.

**2.4 IPR and confidentiality Agreements**

The information provided in this CfE, as well as the fact that the applicant has received the CfE, is considered confidential and protected under copyright laws. The applicant may not discuss, share, or use the information in this CfE for any purpose other than the response to this CfE.

ETSI will not disclose the content of any proposals to other applicants or any other party, with the exception of the persons involved in the assessment process described in §2.3 above.

However, ETSI reserves the right to make use of the information provided in this proposal to improve the project definition for the purpose of this CfE or any other manner in which ETSI may decide to proceed to select the service providers.

If successful, the applicant will be required to sign a Service Contract, which includes IPR and Confidentiality clauses aligned with the relevant policies in the ETSI Directives.

**2.5 Preparation cost**

ETSI will not be responsible for any costs or expenses that the applicant may incur in preparing and/or submitting the proposal.

**2.6 Service Contract**

A Service Contract will be proposed to the applicants that will be selected to perform the work.

Details on the Terms and Conditions of this contract can be found on the ETSI Portal, at the following address: <https://portal.etsi.org/Portals/0/TBpages/STFs/Docs/SPLU_Service_Contract_%20Template_V1.0_Clean_Final.pdf>