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| ToR SPLU 192 (Ref. Body ISG CIM) |
| Version: 2.0 |
| Author: Laurent Velez– Date: 2024-10-25 |
| Last updated by: ETSI Secretariat – Date: 2024-10-29 |
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**Terms of Reference –PLUGTESTSTM Technical Proposal**

**SPLU 192 (Ref. Body ISG CIM)**

**NGSI-LD Plugtests**

**Summary information**

|  |  |  |
| --- | --- | --- |
| Event Name | NGSI-LD Plugtests | |
| Event start date | 24 February 2025 | |
| Event end date | 28 February 2025 | |
| Format of the event | Interoperability testing | |
| Type of event | Face to Face | |
| Place of the Event (if so) | ETSI | |
| Reference Body /ISG involved | ISG CIM | |
| In collaboration with/with the support of | *-* | |
| Standardised methodologies, techniques and best practices used: | • EG 202 237: Generic Methodology for Interoperability Testing  • ISO 9646 Series: Framework and Methodology for Conformance Testing | |
| ETSI Funding | **Maximum budget : 6 000 EUR** | |
| Time scale | **From** | 2024-12-09 |
| **To** | 2025-03-31 |

Part I –Technical Proposal

# Rationale & Objectives

The ETSI ISG CIM (Context Information Management) group has established an API to facilitate the exchange of standardized context information, which encompasses both data and metadata. This includes relationships between entities and properties of those properties. The primary objective is to make the associated protocol, known as NGSI-LD (ETSI GS CIM 009), act as the connecting framework for diverse applications and data sources within the realm of Smart services.

Furthermore, the protocol is designed to cater to a broad spectrum of developers seeking an uncomplicated method for enabling their applications to interact with a wide array of data sources.

Already there are several open-source implementations and the community of users also includes many small teams and SMEs and even hobbyists. Therefore, it is essential that the developers have access to not only the standard but also to a test specification and a testing environment to check that their work is (and remains) conformant to the ETSI NGSI-LD specification and can interoperate.

**Proposed Action:**

In order to achieve the goals of ensuring seamless exchange of data between applications and brokers of context information, Interoperability events play a crucial role as a cost-efficient solution. ETSI has taken the lead in orchestrating a Plugtests event for validating interoperability of the equipment implementing the NGSI-LD protocol and the associated API.

The testing will cover Interoperability Tests (GS CIM-054), Conformance Tests (GS CIM-029 and GS CIM-013) and Distributed operations (GS CIM-053).

# Expertise required / Budget allocated

## Task summary

**Task description:**

|  |  |
| --- | --- |
| **Task**  **No.** | **Task description** |
| T0 | Technical Project Management (Handled by CTI) |
| T1 | Development of a selection of interoperability and conformance tests according to GS CIM-054, GS CIM-029, GS CIM-013) and GS CIM-053. |
| T2 | Participation in preparation and running the conference calls |
| T3 | Technical support during the event, e.g., for questions relating to the test specification |
| T4 | Managing the test result reporting and evaluation |
| T5 | Assisting with the production of the report of the test execution and the production of the event report |

## Expertise required / Team structure

Up to 2 participants to ensure the following mix of competences:

|  |  |
| --- | --- |
| **Priority** | **Qualifications and competences** *(example here below)* |
| High | Expert knowledge of ETSI GS CIM 009 |
| Medium | Familiar with ETSI testing methodology |
| High | Working experience in interoperability and conformance testing |

## Budget allocated:

**Budget table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task**  **No.** | **Task description** *(example here below)* | **Total in EUR** | **Milestone Cut-off date** |
| T0 | Technical Project Management | CTI | |
| T1 | Development of a selection of interoperability and conformance tests according to GS CIM-054, GS CIM-029, GS CIM-013) and GS CIM-053. | 500 |  |
| T2 | Participation in preparation and running the conference calls | 500 |  |
| T3 | Technical support during the event, e.g., for questions relating to the test specification | 4 000 |  |
| T4 | Managing the test result reporting and evaluation | CTI | |
| T5 | Assisting with the production of the report of the test execution and the production of the event report | 1 000 |  |
| **MIL A** | All tasks completed; event closed |  | 31/03/2025 |
| **TOTAL** | | **6 000** |  |

Note: The tasks T0 and T4 are under ETSI CTI responsibility.

Selected experts must be present on site in ETSI, in Sophia-Antipolis during the Plugtests. No travel budget is allocated for onsite participation.

# Document history

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Date** | **Author** | **Status** | **Comments** |
| 1.0 | 2024-10-25 | L. Velez | Stable |  |
| 2.0 | 2024-10-29 | ETSI Secretariat | Final | Update before CL publication |

Annex I Response to the Request for Proposals  
CfE – SPLU 192 (ISG CIM) Deadline: 29-11-2024

|  |  |
| --- | --- |
| **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 192 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)** |
| 00 | Technical Project Management | CTI | | | |
| 01 | Development of a selection of interoperability and conformance tests according to GS CIM-054, GS CIM-029, GS CIM-013) and GS CIM-053. | 500 | . | | . |
| 02 | Participation in preparation and running the conference calls | 500 | . | | . |
| 03 | Technical support during the event, e.g., for questions relating to the test specification | 4000 | . | | . |
| 04 | Managing the test result reporting and evaluation | CTI  .. | | | |
| 05 | Assisting with the production of the report of the test execution and the production of the event report | 1000 | . | | . |
| **TOTAL** | | **6000** |  | |  |

**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 192 (ISG CIM) Deadline: 29-11-2024

**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>