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| ToR SPLU 169 (Ref. Body TC RT) |
| Version: 1.1 |
| Author: Saurav Arora – Date: 2022-01-31 |
| Last updated by: Ultan Mulligan – Date: 20YY-mm-dd |
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**Terms of Reference –PLUGTESTSTM Technical Proposal**

**SPLU 169 (Ref. Body TC RT)**

**FRMCS #2**

**Summary information**

|  |  |
| --- | --- |
| Event Name | FRMCS #2 |
| Event start date | 16 May 2022 |
| Event end date | 20 May 2022 |
| Format of the event | Interoperability testing |
| Type of event | Remote |
| Place of the Event (if so) |  |
| Reference Body /ISG involved | TC RT, 3GPP |
| In collaboration with/with the support of | UIC, TCCA |
| Standardised methodologies, techniques and best practices used: | • EG 202 237: Generic Methodology for Interoperability Testing |
| ETSI Funding | **Maximum budget : 27000 EUR** |
| Time scale | **From** | 2022-02-01 |
| **To** | 2022-06-30 |

Part I –Technical Proposal

# Rationale & Objectives

Interoperability and Mission Critical service harmonisation are critical challenges for the successful deployment and operation of Mobile Communication System for various sectors, including Railways.

The goal of the FRMCS Plugtests event is to validate the interoperability of a variety of implementations using different test scenarios based on the 3GPP Mission Critical Services framework with focus on the rail specific features.

# Expertise required / Budget allocated

## Task summary

**Task description:**

|  |  |
| --- | --- |
| **Task****No.** | **Task description** |
| T0 | Development of a selection of interoperability tests based on 3GPP technical specifications; |
| T1 | Collecting the observations and issues seen in the 3GPP technical specifications; |
| T2 | Supporting the preparation and remote integration phases, including participation to regular conference-calls; |
| T3 | Assisting with the production of the report of the test execution and the production of the event Report. |

## Expertise required / Team structure

2-3 participants to ensure the following mix of competences:

|  |  |
| --- | --- |
| **Priority** | **Qualifications and competences** *(example here below)* |
| High | Practical experience in writing interoperability test scenarios for the 3GPP technology |
| Low | Expert knowledge of the 3GPP Mission Critical Services and Standards (3GPP TS 23.280, 3GPP TS 23.281, 3GPP TS 23.282, 3GPP TS 23.479, 3GPP TS 24.281, 3GPP TS 24.282, 3GPP TS 24.379, 3GPP TS 24.481, 3GPP TS 24.482, 3GPP TS 24.483, 3GPP TS 24.484, IETF RFC 3261) and ETSI TS 103 564. |
| Low | Expert knowledge in Public Safety (Tetra, P25) and Public Transport networks (GSM-R). |
| High | Previous experience in interoperability events. Familiar with the ETSI interoperability testing methodology. |

## Budget allocated:

**Budget table:**

|  |  |  |
| --- | --- | --- |
| **Task****No.** | **Task description** *(example here below)* | **Total in EUR** |
| T0 | Development of a selection of interoperability tests based on 3GPP technical specifications; | 9000 |
| T1 | Collecting the observations and issues seen in the 3GPP technical specifications; | 4000 |
| T2 | Supporting the preparation and remote integration phases, including participation to regular conference-calls; | 9000 |
| T3 | Assisting with the execution of the event and the production of the event Report. | 5000 |
| **TOTAL** | **27000** |

**Milestones:**

|  |  |  |
| --- | --- | --- |
| **Milestone** | **Description**  | **Due date** |
| Milestone A | Task T0: Test specification to be uploaded in FRMCS Wiki and validated by ETSI CTI  | 13/05/2022 |
| Milestone B | Task T1: Observations and issues to be listed in the event report and validated by ETSI CTITask T2: Support provided as requested by ETSI CTITask T3: Support provided as requested by ETSI CTI. Report to be validated by ETSI CTI | 30/06/2022 |

# Document history

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| --- | --- | --- | --- | --- |
|  | **Date** | **Author** | **Status** | **Comments** |
| 1.0 | 2022-01-11 | Saurav Arora | Stable |  |
| 1.1 | 2022-01-31 | Ultan Mulligan | Final | Update before CL publication |