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| ***STF 577 - Progress Report for ETSI*** |
| **Presented to ETSI meeting** | **MTS#79** |  | **Author:** | Mr. Philip Makedonski |
|   |   |   | **Date:** | 17/01/2020 |
| **Doc ref** |  |   | **Version** | 1.0  |
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| **STF** | **577** |   | **STF leader** | Mr. Philip Makedonski |
| **TB/WG** | **MTS** |   | **TB responsible** | Emmanuelle Chaulot-Talmon |
|  |  |   | **Administrator** | Ms. Elodie Rouveroux |
|  |  |  |  |  |  |
| **STF title:** | TDL and TOP Enhancements and Maintenance |
|  |  |  |  |  |  |
| **Milestone** | **A** |  | **Status** | **Covers the period until (cut-off date)** | 31/01/2020 |
|  **Template** |
| **Objective** | Workable solutions for all deliverables on TDL (Task 1) are available and ready for review at MTS#79. TOP tools are updated accordingly (Task 2). Technical Report on reference implementation updated. Task 3 on validation has started. Progress Report A to be approved by MTS#79 |
| **Achieved** | Yes/No |  |
|  |
| **Remarks** |   |
|  |  |  |  |  |  |
| **Achieved dates** |  |  |  |  |  |
| **Template** | **Draft report** | **TB approval** | **ETSI approval** |  |  |
| 23/12/2019 | 17/01/2020 | 28/01/2020 |   |   |   |
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# Executive summary

* This progress report covers the work of STF 577 on reaching Milestone A, done in the period between 01-Oct-2019 and 31-Jan-2020. This period concludes the submission of the deliverables defined for Milestone A.
* The work was done remotely with coordinated homework of the experts and technical discussions with the dedicated working group, which provided further technical guidance, with one working session scheduled immediately after MTS#79.
* The STF work plan has been adapted to accommodate a minor delay with the start of work and further dissemination activities. No changes to the resource requirements and STF team are proposed at this point.
* Promotional activities related have been initiated to raise awareness for TDL and the work of the STF.

# Introduction

This progress report covers the work of STF 577 on Milestone A, done in the period between 01-Oct-2019 and 31-Jan-2020. This period concludes with the submission of the deliverables defined for Milestone A. The work was done remotely with coordinated homework of the experts and technical discussions with the working group, which provided further technical guidance.

# Contractual milestone

During the preparatory meeting the milestone planning needed to be adjusted slightly to accommodate the delay with the start of work. Further delays with the administrative details related to the contracts introduced minor constraints for the deliverable planning. During the preparatory meeting, Milestone A was confirmed as "Workable solutions for all deliverables on TDL (Task 1) are available and ready for review at MTS#79. TOP tools are updated accordingly (Task 2). Technical Report on reference implementation updated. Task 3 on validation has started. Progress Report A to be approved by MTS#79”. The requested deliverables have been uploaded in the MTS contributions area of the ETSI portal.

# Progress of the work

The original work plan comprises three principal milestones. As agreed during the preparatory meeting, most of the work will be done remotely in order to minimize travelling costs and overhead. The milestones are primarily prepared during individual and coordinated homework. One working session (29-30-Jan-2020) has been scheduled so far to discuss complex technical challenges in person.

Progress on the following activities has been achieved so far:

**Task 0 – Project Management**

* One STF working sessions has been planned and allocated along MTS#79. Additional working sessions to be scheduled as needed.
* Progress reports for Milestones A (prepared for MTS#79, this document), as well as interim progress reports for the working group have been prepared and submitted.
* STF members interacted with the working group and participated at MTS meetings.
* Members of the STF set up a booth at the UCAAT 2019 to promote TDL and the work of the STF.
* Coordination and preparation of materials for the TDL open source project.

**Task 1 – Evolution of TDL**

* Initial working proposals discussed for inheritance support, improved separation of globally ordered and locally ordered test descriptions, test data specification, dependency specification, as well as other open CRs.
* New CRs submitted based on user feedback and other sources.

**Task 2 – TOP Maintenance and Enhancements**

* Compatibility updates in order to support the latest version of Eclipse and associated components contributed to TOP.
* Transition towards GitLab as collaboration platform and better exposure through ETSI labs under discussion, pilot setup in place.
* CRs organized in sub-projects for better management.
* Initial solutions for high priority CRs are being discussed.
* Standard data type library postponed until updates to the meta-model are stable.

**Task 3 – Validation and User Guidelines**

* Work has only just started on this task so no substantial progress so far.
* The STF is soliciting input from users within ETSI on typical user stories as input for the guidelines.
* Consistency checking is an ongoing process along the work on TDL and TOP.
* Transition to GitLab will require corresponding changes to the documentation.

# Assessment of technical risk, difficulties encountered/expected, unresolved issues

The progress of the work of the STF may be negatively affected by the following risks:

**Task (inter-) dependencies may create bottlenecks for the work of the STF**

Due to the parallel and distributed work on multiple deliverables across multiple experts, dependencies among individual activities may create hindrances for the progress of the STF.

Severity: Medium, Likelihood: Low

Mitigation strategies:

* Limit dependencies between activities where possible.
* Make dependencies explicit where these are inevitable in order to raise awareness, as well as monitor and control potential implications.
* Ensure communication and collaboration among experts working on inter-dependent tasks.
* Reassign experts where applicable in order to accelerate progress of delayed activities and eliminate bottlenecks in a timely manner.

**Misunderstandings and communication barriers hinder progress**

Misunderstandings and communication issues during discussions and individual work may negatively impact the progress of the STF work.

Severity: Medium, Likelihood: Medium

Mitigation strategies:

* Moderation and awareness – recognize and differentiate between misunderstandings, where clarification is needed, and technical disagreements, where different solutions are proposed.
* Emphasis on facts, substantiated and illustrated with examples, and written input and output of discussions, which describes ideas, problems, and solutions in sufficient detail, and can be referenced to in subsequent discussions.
* Identify fundamental differences in alternative proposals and their impact in order to establish a baseline for discussions, rather focusing discussions on superficial and non-essential differences.
* Communicate and resolve persistent issues and disagreements with the help of the steering group.

**Misalignment of expectations towards the STF and the output of the STF**

Due to potentially unrealistic or misaligned expectations towards the STF from different stakeholders, the output of the STF may not be able to meet these expectations.

Severity: Medium, Likelihood: Medium

Mitigation strategies:

* A steering group has been established to provide technical guidance and mediate technical disagreements.
* Frequent reporting and technical discussions with the steering group and TC MTS ensure that the work of the STF is aligned with its expectations. The STF has an opportunity to communicate any expectations that are perceived to be unrealistic back to the steering group and TC MTS.
* Concrete examples are prepared to support technical discussions and ensure alignment of expectations

**Complex technological landscape may slow down progress on TOP maintenance**

Due to the complex and constantly evolving technological landscape surrounding the platform on which the TOP is based, unforeseen challenges may slow down the progress of the STF. Conversely, unforeseen benefits may also speed up the progress of the STF.

Severity: Medium, Likelihood: Medium

Mitigation strategies:

* Limiting the dependencies on third-party components.
* Keeping up with the latest developments so that maintenance is performed in smaller increments as the risks tend to increase with time.

# Proposed changes in the STF work plan

Despite a minor delay with the start of the work, the work plan has not been affected substantially. The most notable change is the postponed closing date for the STF in order to enable the experts to contribute to further dissemination activities, such as the UCAAT. Hence, during the preparatory meeting the closing date for the STF was moved from 30-Jun-2020 to 31-Oct-2020.

# Resources requirements

No changes in the STF resource requirements are proposed at this point.

# Changes in the STF Team

No changes in the STF team are proposed at this point in time.

# Meetings/events attended on behalf of the STF

As the work of the STF has started only recently, no meeting on behalf of the STF have been attended by the experts so far.

# Meetings/events planned to be attended

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| --- | --- | --- | --- | --- | --- |
| **Date** | **Place** | **TB/Orga** | **Event description** | **Reason to attend** | **Expert(s)** |
| 28-Jan-2020 | Sophia-Antipolis | MTS | MTS#79, MTS-TDL#3 | Present and discuss achievements of the STF up to that point, co-located working session. | Philip Makedonski (in person),Martti Käärik (in person),Finn Kristoffersen (in person) |
| 12-13-May-2020 | Budapest | MTS | MTS#80, MTS-TDL#4 | Present and discuss achievements of the STF up to that point, co-located working session. | Philip Makedonski (in person), Martti Käärik (in person) |
| Sep-2020 | TBA | MTS | MTS#81, MTS-TDL#5 | Present and discuss achievements of the STF up to that point, co-located working session. | TBA |

# STF communications, presentations, promotion, inside and outside ETSI, WEB pages etc

The following activities related to the communication, presentation, and promotion of the work of the STF have been considered, planned, and/or performed:

* Members of the STF set up a booth at the UCAAT 2019 to promote TDL and the work of the STF, resulting in numerous constructive discussions with other participants at the event.
* Ongoing dissemination activities from STF members from research institutions include raising awareness and promoting TDL on their respective websites and within teaching and research activities.
* A website for the STF has been published on the ETSI portal at:
<https://portal.etsi.org/STF/STFs/STF-HomePages/STF577>
* The official TDL website aggregating all resources related to TDL and its implementation is being updated and extended with new information. It is available at: <https://tdl.etsi.org>
* A dedicated project is established on the online issue reporting portal for ETSI (“ETSI’s Bug Tracker”) where change requests for TDL can be submitted and managed in an open and transparent manner. Change requests can be submitted at: <http://oldforge.etsi.org/mantis/view_all_bug_page.php>

# Technical advice required from the reference Technical Body

A working group has been assembled by TC MTS to provide technical guidance and expert advice during technical sessions with the STF and dedicated working group meetings. Up to this point, the working group and the TB have been supporting the work of the STF very well, with technical discussions and advice during the regular conference calls to discuss the progress of the STF and any open questions or unresolved disagreements.

# Status of the deliverables

Milestone A is comprised of the following deliverables:

* A draft of ES 203 119-1 v1.5.1, submitted for remote consensus on 31-Jan-2020.
* A draft of ES 203 119-2 v1.4.1, submitted for remote consensus on 31-Jan-2020.
* A draft of ES 203 119-3 v1.4.1, submitted for remote consensus on 31-Jan-2020.
* A draft of ES 203 119-4 v1.4.1, submitted for remote consensus on 31-Jan-2020.

# Next report

The next report is scheduled for: 12-May-2020.

# Any other business

None.