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| ***TTF T034 - Progress Report for ETSI*** |
| **Presented to ETSI meeting** |  MTS#91 |  | **Author:** | Martti Käärik |
|   |   |   | **Date:** | 23 JAN 2024 |
| **Doc ref** | MTS(24)XXX |   | **Version:** | 0.1 |
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| **Project No** | **T034** |   | **Project Leader** | Martti Käärik |
| **RB** | **MTS TDL** |   | **RB Responsible** | Philip Makedonski |
|  |  |   | **Administrator** | Elodie Rouveroux |
|  |  |  |  |  |  |
| **Project title:** | **TOP/TDL Runtime Interface and Enhancements** |
|  |  |  |  |  |  |
| **Milestone** | **A** |  | **Status** | **Covers the period until (cut-off date)** | 05 FEB 2024 |
| **Template** |
| **Objective** | First progress report to be approved by TC MTSFirst TOP tool feasibility demo |
| **Achieved** | Yes |  |
|  |
| **Remarks** | --- |
|  |  |  |  |  |  |
| **Achieved dates** |  |  |  |  |  |
| **Template** | **Draft report** | **RB approval** | **ETSI approval** |  |  |
| 08 JAN 2024 | 23 JAN 2024 |   |   |   |   |
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# Executive summary

The present document provides an overview of the initial phase of the work of TTF T034 (TOP/TDL Runtime Interface and Enhancements).

The outcome of the work by the first milestone are:

* Early drafts of the standard deliverables,
* the demonstration of the current state of the toolset.

The deliverable drafts have reached early draft statuses according to the work plan. Overall, the TTF has achieved its objectives for milestone A.

Without any changes to the work plan, the TTF requests to postpone the closing of the TTF to 11 OCT 2024 (by 6 weeks) to include the MTS meeting (taking place in September or early October) where TTF should present the final results of the TTF work.

# Introduction

A large part of the TTF work consists of developing the TDL toolset. In the first phase, the development focus has been on providing support and tooling for other ETSI task forces that could benefit from improved methodology and tooling provided by TDL and its toolset.

The requirements for the toolset have been specified and subsequently reviewed and accepted by the TDL WG. The priorities for the requirements have been assigned and the implementation plan has been updated accordingly.

Public releases of the software are created as soon as a significant update has been completed and tested.

# Contractual milestone

The TTF has achieved its objectives for milestone A.

# Progress of the work

During the initial phase of the work, the TTF has focused on the additional features to better support the test development process according to current practices in ETSI. The work of TTF T029 (Conformance testing of Wireless Transport Profile for Standard SDN Northbound Interfaces) has been chosen as a case study to validate the toolset.

The updated features include:

* Editing support for high level test purposes and seamless conversion to lower-level test descriptions,
* textual syntax and related meta-model updates to facilitate more user friendly and flexible test data specification and
* prototypic implementation of YANG data format importer.

During the implementation work, the TDL standard was updated to support the new features.

In addition to development work, the TTF specified the runtime interfaces and additional operational semantics of the TDL as ES 203 119-9, which is currently in early draft status.

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

No technical risks nor difficulties have been met in this phase.

# Proposed changes in the Project work plan

No changes to the work plan are required at this time.

# Meetings/events attended on behalf of the Project

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| --- | --- | --- | --- | --- | --- |
| **Date** | **Place** | **TB/Orga** | **Event description** | **Reason to attend** | **Expert(s)** |
| 2024-1-25 | Berlin | MTS | MTS#91 | Reporting on TTF progress | Martti Käärik, Philip Makedonski, Finn Kristoffersen |
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# Meetings/events planned to be attended

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| --- | --- | --- | --- | --- | --- |
| **Date** | **Place** | **TB/Orga** | **Event description** | **Reason to attend** | **Expert(s)** |
| 2024-6-4 | ETSI | MTS | MTS#92 | Reporting on TTF progress | Martti Käärik, Philip Makedonski, Finn Kristoffersen |
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# Project communications, presentations, promotion, inside and outside ETSI, WEB pages etc

The experts participated in the UCAAT conference in Munich, Germany that took place 14-16 of November 2023 ([10th UCAAT - User Conference on Advanced Automated Testing](https://www.etsi.org/events/2188-2023-11-10th-ucaat-user-conference-on-advanced-automated-testing)). Martti Käärik held a presentation highlighting the latest advancements in the TDL tooling and the benefits of model-based test specification process (as applied in ETSI). A presentation highlighting the TDL was prepared for display in the ETSI MTS booth at the conference.­­

The goal of the participation was to promote TDL among participants and gather feedback as well as further ideas for advancement of the TDL and related methodologies. Among participants were representatives of the industry, test tool vendors and standardization bodies (including ETSI). Informal meetings were held to discuss their experiences with various testing frameworks and languages as well as modelling tools in general. TTF experts explained how TDL might be used in their respective domains or integrated with custom toolsets.

# Status of the deliverables

Following deliverables have reached early draft status:

* TR 103 119,
* ES 203 119-1,
* ES 203 119-8 and
* ES 203 119-9.

All drafts are available in ETSI Sharepoint ([Drafts](https://etsihq.sharepoint.com/%3Af%3A/r/teams/TTFT034/Shared%20Documents/General/Drafts?csf=1&web=1&e=qwjhDL)).

The current state of the source code for Task 3 (TOP Features Implementation) is available at ETSI Labs web site (<https://labs.etsi.org/rep/top>).

# Next report

The next report is scheduled for: 2023-4-8.

# Any other business