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| ***TTF T022 - Progress Report for ETSI*** |
| **Presented to ETSI meeting** |  |  | **Author:** | Martti Käärik |
|   |   |   | **Date:** | 04 APR 2023 |
| **Doc ref** |  |   | **Version** | 0.3 |
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| **TTF** | **T022** |   | **TTF leader** | Martti Käärik |
| **TB/WG** | **MTS**  |   | **TB responsible** | Philip Makedonski |
|  |  |   | **Administrator** | Elodie Rouveroux |
|  |  |  |  |  |  |
| **TTF title:** | TOP/TDL Enhancements for Better User Experience |
|  |  |  |  |  |  |
| **Milestone** | **B** |  | **Status** | **Covers the period until (cut-off date)** | 31 MAR 2023 |
| **Template** |
| **Objective** | Second progress report to TC MTS Stable drafts to be accepted by TC MTS Second TOP tool feasibility demo |
| **Achieved** | Yes |  |
|  |
| **Remarks** | --- |
|  |  |  |  |  |  |
| **Achieved dates** |  |  |  |  |  |
| **Template** | **Draft report** | **TB approval** | **ETSI approval** |  |  |
| 04 JAN 2023 | 04 APR 2023 |   |   |   |   |
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# Executive summary

The present document provides an overview of the second phase of the work of TTF T022.

The outcome of the work by the second milestone are:

* Stable drafts of the standard deliverables,
* the requirements for the TDL toolset implementation and
* the demonstration of the current state of the toolset.

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

# Introduction

The work of the TTF consists in large part of developing the TDL toolset.

Since the last milestone, 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.

In parallel, the implementation work on the toolset has progressed and several high priority requirements have already been fulfilled.

Public releases of the software are expected after the finalization of the work. An earlier non-public release may be offered for the benefit of the experts in TTF T029 for specification of their deliverables. The required feature set for that release has been agreed among the TDL WG and ETSI CTI.

# Contractual milestone

The TTF has achieved its objectives for milestone B.

# Progress of the work

The requirement specification for the toolset implementation was created using iterative process where the intermediate results were presented and discussed at biweekly meetings with the MTS members. The resulting document is the basis for the upcoming development work up to the end of this TTF. The outline of the requirements is also reflected in the development work plan maintained in the ETSI Labs online environment.

During the second phase of the work, the TTF has completed the development of core components of the TDL toolset, namely:

* TDL meta-model with embedded functions and validation constraints,
* textual editor for standardized syntax,
* textual editor extension for the TDL-backed TO language and
* user interface components for environment setup and configuration.

During the implementation work, the TDL standard was validated and tested with regard to the formal specification of constraints.

Usage scenarios are outlined to carry out the demonstration of the capabilities of the implemented toolset. The implementation work continues according to the agreed upon requirements and priorities.

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

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

# Proposed changes in the TTF work plan

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

# Meetings/events attended on behalf of the TTF

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| --- | --- | --- | --- | --- | --- |
| **Date** | **Place** | **TB/Orga** | **Event description** | **Reason to attend** | **Expert(s)** |
| 2023-1-25 | Thessaloniki / online | MTS | MTS#88 | Reporting on TTF progress | Martti Käärik, Philip Makedonski, Finn Kristoffersen |
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# Status of the deliverables

Following deliverables have reached stable draft status:

* ES 203 119-1,
* ES 203 119-4 and
* ES 203 119-7.

The technical report TR 103 119 is in early draft status as the work on TTF tasks 2, 3 and 4 that affect its content is still in progress.

All drafts are available in ETSI Sharepoint ([Drafts](https://etsihq.sharepoint.com/%3Af%3A/r/teams/TTFT022/Shared%20Documents/General/Drafts?csf=1&web=1&e=wiL1KH)).

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: 2023-06-30