

## STF 476: TDL Phase 2

Status Report

## Document History

- 2015-01-29: Document submitted for MTS #64
  - long form for TDL Technical Session
  - short form for MTS #64
- 2014-09-25: Document submitted for MTS #63
  - long form for SG #5 / Technical Session
  - short form for MTS #63
- 2014-05-10: Document submitted for MTS #62
  - long form for SG #3 / Technical Session
  - short form for MTS #62
- 2014-03-19: Document submitted for SG #2

From the Terms of Reference...

## TDL Phase 2: Goal and Objectives

- Goal
  - Supporting ETSI and industrial users in using TDL
- Objectives
  - Extended TDL meta-model for supporting test automation
  - Standardised concrete syntaxes
    - Graphical syntax for end-users
    - Textual exchange syntax for tool interoperability
  - Analysis on the needs for a concrete syntax to support ETSI use cases

### TDL Phase 2: Deliverables

Del.	Work Item Code / Standard Number	Working Title / Scope
D1	RES/ES 203 119-1 V1.2.1	Test Description Language; Meta-Model and Semantics Scope: common concepts, meta-model, semantics
D2	DES/ ES 203 119-2 V1.1.1	Test Description Language; Graphical Syntax Scope: TDL graphical concrete syntax for end users
D3	DES/ ES 203 119-3 V1.1.1	Test Description Language; Exchange Format Scope: TDL exchange format for tool interoperability

Optionally: ES Part 4 on TDL textual concrete syntax (no WI created yet)

# TDL Phase 2: Organisation of Work

- Start: 02/2014
  - Task 0: Project management
  - Task 1: Extension of TDL meta-model (02-12/2014)
  - Task 2: Graphical concrete syntax (02-12/2014)
  - Task 3: Exchange syntax (06-12/2014)
  - Task 4a: Analysis on ETSI concrete syntax (02-05/2014)
- Potential STF extension: 06/2014 (decision at MTS#62)
  - Task 4b: ETSI concrete syntax (06-12/2014)
- End: 12/2014
  - WI: updated meta-model description + semantics
  - WI: concrete syntax + meta-model mapping
  - WI: exchange syntax + meta-model mapping

### TDL Phase 2: Milestones

- M0: 02/2014
  - Start of work of Tasks 0, 1, 2, 4
- M1: 05/2014

- <- Discussion at MTS#62 (05/2014)
- (T1) Early draft: updated meta-model, (T2) Early draft: graphical syntax,
- (T4) Decision paper on textual syntax
- (T3) Start of Task 3
- M2: 09/2014

- <- Discussion at MTS#63 (10/2014)
- (T1) Stable draft: updated meta-model, (T2) Stable draft: graphical syntax, (T3) Early draft: exchange syntax
- M3: 12/2014

- <- Approval at MTS#64 (02/2015)
- (T1) Final draft: updated meta-model, (T2) Final draft: graphical syntax, (T3) Final draft: exchange syntax

# Status Report

#### Task 0: Session Overview

- WK09 Feb 24-28 Session 1 @ETSI
- WK15 Apr 07-11 Session 2 @ETSI
- WK23 Jun 02-06 Session 3 @FOKUS
- WK36 Sep 01-05 Session 4 @ETSI
- WK42 Oct 13-17 Session 5 @Siemens
- WK49 Dec 01-05 Session 6 @ETSI

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#### Task 2: Graphical Concrete Syntax

- Different specification approaches studied
- OMG Diagram Definition (DD) selected "in principle"
- Means for user-accessible specification under study
- · Decision on description and mapping structure pending

#### Task 1: Extended TDL Meta-Model

- Targeted for M1
  - · specification of sub-test configurations
  - types and data refinement (initial proposal)
- Open for M2 and M3
  - types and data (finalised)
  - time
  - behaviour
  - · editorial clarifications and refinements

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#### Task 4: TDL Textual Syntax Analysis

- Understanding ETSI's requirements for a textual syntax
  - · review and discussion of notes and input collected during STF 454
  - discussion of CTI proposal based on ITS and GeoNetworking examples
  - initial focus on provided examples, (TPLan-like) format pushed within ETSI

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## Task 0: Session Planning

- 6 sessions in total
- 2 sessions per milestone
  - 1 preparatory / debriefing
  - 1 finalising
- Homework and remote coordinated work in between

### Task 0: Session Overview

- WK09 Feb 24-28 Session 1 @ETSI
- WK15 Apr 07-11 Session 2 @ETSI
- WK23 Jun 02-06 Session 3 @FOKUS
- WK36 Sep 01-05 Session 4 @ETSI
- WK42 Oct 13-17 Session 5 @Siemens
- WK49 Dec 01-05 Session 6 @ETSI

### Task 0: Milestone 1 Timeline

- WK09 Feb 24-28 Session 1 @ETSI
  - 4 experts, 16 days, define roadmaps, prepare early drafts
- WK15 Apr 07-11 Session 2 @ETSI
  - 4 experts, 16 days, finalise early drafts, analysis report, ToR if applicable
  - deadline for requests to move sessions, contracts extension
- WK18 Apr 28-May 01 Deliverables submitted
- WK20 May 14-15 MTS #62 @Siemens

### Task 0: Milestone 2 Timeline

- WK23 Jun 02-06 Session 3 @FOKUS
  - 5 experts, 25 days, review feedback, define roadmaps, prep. stable drafts
- WK36 Sep 01-05 Session 4 @ETSI
  - 5 experts, 25 days, finalise stable drafts
  - feature freeze, new features added only if absolutely critical
- WK37 Sep 08-12 Deliverables submitted
- WK39 Oct 01-02 MTS #63 @TestingTech

### Task 0: Milestone 3 Timeline

- WK42 Oct 13-17 Session 5 @Siemens
  - 5 experts, 25 days, define roadmaps, prepare final drafts
- WK49 Dec 01-05 Session 6 @ETSI
  - 5 experts, 25 days, finalise final drafts
- WK50 Dec 15-19 Deliverables submitted\*
- WK05 Jan 28-29 2015 MTS #64 @Ericsson

\* Revised versions submitted, raised CR addressed, editorial and wording changes pending

### Task 0: Milestone Resources

- ~15 days/expert per milestone
  - assuming roughly equal resource allocation per expert
  - 2x4 days sessions, ~7 days homework
- Milestone 1: ~60 days planned, 44.5 used (4 experts)
- Milestone 2: ~75 days planned, 73/77.5 used\* (5 experts)
- Milestone 3: ~75 days planned, 90.5/106 used\*\* (5 experts)

- \* 4.5 from extension for Part 4
- \*\* 15.5 from extension for Part 4, estimated, TAM currently unreliable

## Session 5 Summary

#### Goals

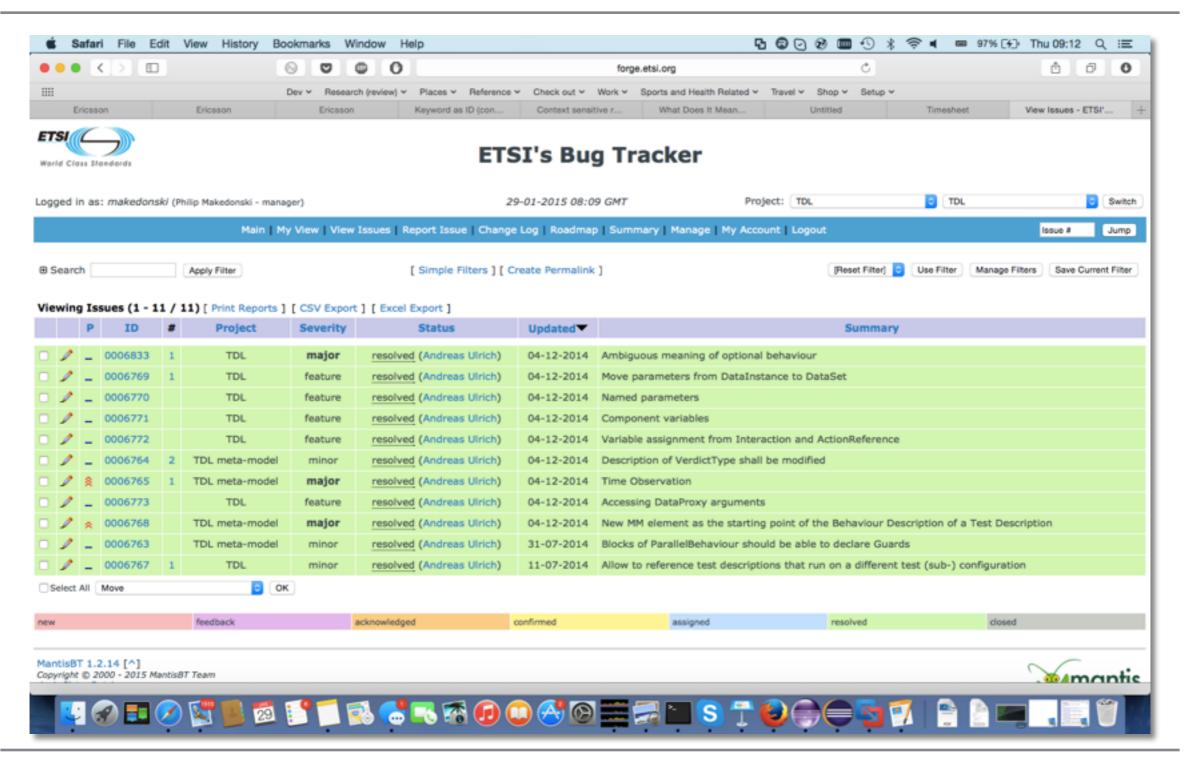
- Part 1: address outstanding items (time, data), technical review, validation
- Part 2: align with Part 1, outstanding constructs, update example, notation
- Part 3: address outstanding items (multiple inheritance, etc.)
- Part 4: extend integration (time, data), prepare evaluation
- Plan milestone timeline

## Session 6 Summary

### Goals

- Review all documents thoroughly
- Discuss and address any outstanding minor issues
- Identify and delegate any open issues for Phase 3
- Update, align, and extend examples for all parts where applicable
- Discuss feedback from Part 4 evaluation, assist with setup if needed
- Catch up with Mantis

### No Issues!



## Follow-up Discussions

### Summary

- technical concerns regarding the deliverables raised in late December
- technical solution reached during the technical session on 28.01.2015
- needed minor changes implemented on 28.01.2015

### Final report

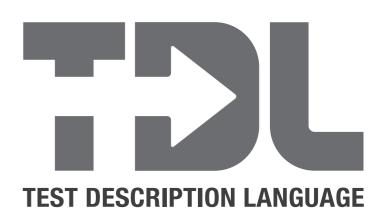
- missing financial information due to TAM migration delayed the report
- near-final version uploaded, awaiting final corrections from STFLINK

## STF 476 by the numbers

- 253 days of work (182 + 71)
- 4 parts
  - Part 1 MM: 78 pages, ~20800 words (BNF included, based on v1.1.1)
  - Part 2 GR: 55 pages, ~5200 words (lots of pictures)
  - Part 3 XF: 64 pages, ~16500 words (XML Schema included)
  - Part 4 TO: 40 pages, ~7600 words (BNF included)
- Total: 237 pages, ~50000 words

### The Future of TDL

- ToR for Phase 3 approved!
  - Preparatory meeting: TBD, CfE open
- Launch event
  - Target: UCAAT 2015 @ETSI
  - Preparation under way
- TDL logo
  - Several proposals circulated, tentative selection:



# Any other business?