



# STF 476: TD-LTE Phase 2

## Status Report

# Document History

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- 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

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- 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

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<b>Del.</b>	<b>Work Item Code / Standard Number</b>	<b>Working Title / Scope</b>
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

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- 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

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- 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

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- 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 1: Extended TDL Meta-Model

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- 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

## Task 2: Graphical Concrete Syntax

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- 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 4: TDL Textual Syntax Analysis

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- 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

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

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- WK42 Oct 13-17 - Session 5 @Siemens
- WK49 Dec 01-05 - Session 6 @ETSI

# Task 0: Milestone 1 Timeline

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- 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

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- 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

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- 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

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- ~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

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- 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

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- 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!

The screenshot shows the ETSI's Bug Tracker interface in a Safari browser. The page title is "ETSI's Bug Tracker" and the URL is "forge.etsi.org". The user is logged in as "makedonski (Philip Makedonski - manager)" on "29-01-2015 08:09 GMT". The project is set to "TDL". The interface includes a navigation menu, a search bar, and a list of 11 issues. The issues are displayed in a table with columns for ID, Project, Severity, Status, Updated, and Summary. All issues are marked as "resolved".

Viewing Issues (1 - 11 / 11) [ Print Reports ] [ CSV Export ] [ Excel Export ]

	P	ID	#	Project	Severity	Status	Updated	Summary
<input type="checkbox"/>		0006833	1	TDL	major	resolved (Andreas Ulrich)	04-12-2014	Ambiguous meaning of optional behaviour
<input type="checkbox"/>		0006769	1	TDL	feature	resolved (Andreas Ulrich)	04-12-2014	Move parameters from DataInstance to DataSet
<input type="checkbox"/>		0006770		TDL	feature	resolved (Andreas Ulrich)	04-12-2014	Named parameters
<input type="checkbox"/>		0006771		TDL	feature	resolved (Andreas Ulrich)	04-12-2014	Component variables
<input type="checkbox"/>		0006772		TDL	feature	resolved (Andreas Ulrich)	04-12-2014	Variable assignment from Interaction and ActionReference
<input type="checkbox"/>		0006764	2	TDL meta-model	minor	resolved (Andreas Ulrich)	04-12-2014	Description of VerdictType shall be modified
<input type="checkbox"/>		0006765	1	TDL meta-model	major	resolved (Andreas Ulrich)	04-12-2014	Time Observation
<input type="checkbox"/>		0006773		TDL	feature	resolved (Andreas Ulrich)	04-12-2014	Accessing DataProxy arguments
<input type="checkbox"/>		0006768		TDL meta-model	major	resolved (Andreas Ulrich)	04-12-2014	New MM element as the starting point of the Behaviour Description of a Test Description
<input type="checkbox"/>		0006763		TDL meta-model	minor	resolved (Andreas Ulrich)	31-07-2014	Blocks of ParallelBehaviour should be able to declare Guards
<input type="checkbox"/>		0006767	1	TDL	minor	resolved (Andreas Ulrich)	11-07-2014	Allow to reference test descriptions that run on a different test (sub-) configuration

Select All Move

new feedback acknowledged confirmed assigned resolved closed

MantisBT 1.2.14 [ ^ ]  
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# Follow-up Discussions

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- 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

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- 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

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- 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?

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