



# STF 492: TD-LTE Phase 3

## Status Report

# Document History

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- 2016-05-06: Revised for MTS#68
- 2016-03-02: Revised for SG#4
- 2016-01-27: Revised for MTS#67
  - long form for TDL Technical Session
  - revised short form for MTS#67
- 2015-09-15: Revised for MTS#66
  - long form for TDL Technical Session
  - revised long form for MTS#66
- 2015-09-15: Revised for SG#3
- 2015-07-15: Revised for SG#2
- 2015-06-02: Document submitted for MTS#65
  - long form for TDL Technical Session
  - short form to be submitted for MTS #65



Man 1: Light blue long-sleeved button-down shirt, black trousers, black shoes.

Man 2: Striped short-sleeved button-down shirt, dark shorts, brown shoes. Name tag visible.

Man 3: White short-sleeved button-down shirt, white shorts, blue sneakers. Name tag visible.

Man 4: Blue plaid short-sleeved button-down shirt, blue jeans, brown shoes. Name tag visible.

Man 5: Light blue short-sleeved button-down shirt, grey trousers, black shoes. Name tag visible.

Man 6: Orange and white plaid short-sleeved button-down shirt, blue jeans, black shoes. Name tag visible.

From the Terms of Reference...

# TDL Phase 3: Goals

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- Provide an open platform as a foundation for custom solutions
  - basic graphical and textual editors, validation facilities
  - semantics refinements and formalisation
- Accelerate adoption of TDL and lower barrier to entry
  - both for users and for tool vendors
  - enable integration in UML-based environments
- Contribute to public launch at UCAAT 2015

# TDL Phase 3: Objectives

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- Reference implementation of TDL and accompanying TR
  - hosted on an open internet platform serving as a portal for the community
- UML profile for TDL enabling the use of TDL in UML environments
- Adaptation to MM addressing CRs from the implementation
- Adaptation to GR, XF, TO according to the changes in the MM
- Extension of the capabilities of TO

# TDL Phase 3: 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 V1.3.1	Test Description Language; Meta-Model and Semantics Scope: common concepts, meta-model, semantics
D2	RES/ES 203 119-2 V1.2.1	Test Description Language; Graphical Syntax Scope: TDL graphical concrete syntax for end users
D3	RES/ES 203 119-3 V1.2.1	Test Description Language; Exchange Format Scope: TDL exchange format for tool interoperability
D4	RES/ES 203 119-4 V1.2.1	Test Description Language; Structured Test Objective Specification Scope: TDL extension for structured test objectives
D5	DTR/TR 203 119REF V1.1.1	Test Description Language; Reference Implementation Scope: TDL reference implementation documentation

# Status Update



# Task 0: Milestones and Resources

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- Milestone 4: Mar 01 2016
  - Stable Drafts: Part 2, Part 4
  - The ETSI portal states otherwise:
    - Final: Part 1, Part 2, Part 3; Stable: Part 4, TR
- Milestone 5: Mar 31 2016
  - Final Drafts: Part 1, Part 2, Part 3, Part 4, TR

# Task 1

# Task 1: Activities

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- Implementation of graphical editors -> focus on viewing capabilities
- Implementation of textual editors covering
  - structured test objective specification extension (TDL part 4)
  - parts of the meta-model not covered in the graphical editor -> full meta-model
- Implementation of the TDL exchange format (TDL part 3)
- Implementation of the UML profile for TDL
  - integration with Eclipse Papyrus as profile reference implementation platform
  - integration with the open source "Eclipse UML Profiles Repository" project
    - licensing and administrative details need to be clarified with legal within ETSI

# Task 1: Activities

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- Identification of change requests for the current TDL standards
  - 60 CRs resolved
  - 7 CRs open
- Setting up necessary project infrastructure and portal
  - decisions are still pending
- User and developer documentation
  - currently part of TR

# Task 2

# Task 2: Activities

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- Mapping to TDL stereotypes and UML meta-classes
  - Annex C of ES 203 119-1
- TDL UML profile abstract syntax according to the mapping
  - part of reference implementation
- Automated derivation of UML profile specification
  - future work
- Specification of formal constraints and UML superstructure restrictions to prevent invalid application of the TDL profile
  - future work

# Task 3

# Task 3: Activities

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- Formalisation of static semantics by means of OCL constraints
  - validation and refinement of existing constraints
  - also transferred to the reference implementation
- Addressing change requests arising from the implementation
  - 39 CRs (big part related to constraints)
  - 4 CRs still open (1 due to typo, to be closed shortly)



# Task 4

# Task 4: Activities

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- Extension of the structured test objective specification
  - Reference component instances in events
  - Reference test configurations in test objectives
  - Event occurrence templates
  - Iterative and periodic event sequences
- Addressing change requests arising from the implementation
  - Part 2: 8+1 (fixed+open) CRs
  - Part 3: 2+0 (fixed+open) CRs
  - Part 4: 11+2 (fixed+open) CRs

# Future of TDL

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- ToR draft submitted on May 3
  - to be updated according to comments from Thursday
- Main focus: Mapping TDL to TTCN-3
- Additional themes:
  - maintenance
  - new features (test configuration operations)
  - requirements for security and performance
- New STF to start in September (if approved)

# Technical Session Summary

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- Webinar: target September, fix date, speaker, submit details - to be aligned with tutorial
- Tutorial at UCAAT: Andreas to prepare initial draft proposal, submission by May 27
  - first draft by May 16, review and comments by May 23, speaker(s): Andreas/Martti/Philip/Xavier/?
  - list contributors first, tentative speaker (TBC in September for final programme)
- Website: arrange administrative rights for direct editing
- Implementation availability: CTI needs to check with legal
- Feedback on drafts: appreciated, timing could be improved
- Draft approval: updated drafts to be submitted for RC in a week
  - upload the commented drafts and comments by e-mail into STF SVN by Friday May 13, 2016
  - updated draft versions produced by rapporteurs by Friday, May 20, 2016
  - RC to be initiated on Monday, May 23, 2016

# Any other business?



