



STF 522: TD-LTE Phase 4

Status Report

Document History

- 2017-09-06: Document submitted for SG#3
- 2017-05-31: Document submitted for MTS#71
- 2017-05-11: Document submitted for SG#2
- 2017-02-27: Document submitted for SG#1
- 2017-01-25: Document submitted for MTS#70

From the Terms of Reference...

TDL Phase 4: Objectives

- New Part 6 for mapping TDL to TTCN-3
- Adaptation and extension of MM addressing CRs
 - new test configuration features (clarifications needed)
 - related to the mapping to TTCN-3
- Adaptation and extension of GR, XF, TO
- New Part 5 to relocate the UML profile (currently annex to MM)
- Requirements for security and performance testing with TDL (TR)

TDL Phase 4: Deliverables

Deliv.	Work Item code Standard number	Working title Scope
D1	RES/ES 203 119-1 V1.4.1	Test Description Language; Meta-Model and Semantics Scope: common concepts, meta-model, semantics
D2	RES/ES 203 119-2 V1.3.1	Test Description Language; Graphical Syntax Scope: TDL graphical concrete syntax for end users
D3	RES/ES 203 119-3 V1.3.1	Test Description Language; Exchange Format Scope: TDL exchange format for tool interoperability
D4	RES/ES 203 119-4 V1.3.1	Test Description Language; Structured Test Objective Specification Scope: TDL extension for structured test objectives
D5	DES/ES 203 119-5 V1.1.1	Test Description Language; UML profile for TDL Scope: TDL to UML meta-model mapping
D6	DES/ES 203 119-6 V1.1.1	Test Description Language; Mapping of TDL to TTCN-3 Scope: Mapping rules to automatically generate TTCN-3 test case skeletons from TDL test descriptions
D7	DTR/ MTS-1029504TDLSecPerfReq	TDL and its usage for security and performance testing; consolidated requirements (technical report)

Today

- Quick status update on the work of STF 522
- TOP status and promotion planning for UCAAT 2017
- Other promotional activities
 - Book chapter in GI TAV 25th Anniversary (STF 522)
 - Keynote at ICTSS (AU)
 - Subsequent article in STTT (AU + ?)
- TDL at ETSI

Status Update

Task 0: Work Plan

- Timescale: Jan, 2017 (+4 months) - Jan, 2018 (+1 month)
 - delays due to administrative overhead at respective organisations
 - final confirmation received on Dec 15, 2016
 - work remotely, meet in person only if necessary
 - coordinated remote sessions scheduled as needed, based on availability
- Working sessions planned so far, further sessions as needed
 - WK7: Feb 14-17 Session 1 @ UG (4 days)
 - **WK34: Aug 22-25 Session 2 @ UG (4 days)**

Task 0: Milestones (Current Planning)

N	Task / Milestone / Deliverable	ToR Targets	Current Targets
M0	Start of work	Sep-2016	Jan-2017
T0	Project management	Sep-2016–Sep-2017	Jan-2017–Jan-2018
T1	TDL-to-TTCN-3 mapping	Sep-2016–Sep-2017	Jan-2017–Jan-2018
T2	Advanced test configuration features	Sep-2016–Apr-2017	Jan-2017–Aug-2017
T3	Language maintenance	Sep-2016–Apr-2017	Jan-2017–Aug-2017
T4	Requirements for security and performance testing	Mar-2017–Sep-2017	Jun-2017–Dec-2017
M1	Informal report on planning	16-Dec-2016	Jan-2017
M2	1 st drafts	28-Apr-2017	May-2017
M3	2nd drafts	28-Jul-2017	Sep-2017
M4	Final drafts for MTS review	01-Sep-2017	Dec-2017
M5	Final report, end of work, TB approval	27-Sep-2017	Jan-2018
M6	Membership vote	27-Sep-2017	Feb-2018
M7	Publication	01-Dec-2017	Apr-2018

Task 0: Overall Timeline (Current)

Task Milest.	Description	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
T0	Project management																
T1	TDL-to-TTCN-3 mapping																
T2	Advanced test configuration																
T3	Language maintenance																
T4	Requirements solicitation																
M0	Start of work																
M1	Informal report on planning																
M2	1st drafts																
M3	2nd drafts																
M4	Final drafts for MTS review																
M5	Final report, TB approval																
M6	Membership vote																
M7	Publication																

Notes from SG Meetings

- Inter-SUT communication remains as future work
- Introduce local ordering as explicit property of test description
- Focus on message-based communication at first
- Data mapping required at first
- Advanced test configuration as TDL extension (similar to TO)

Notes from SG Meetings

- Advanced test configurations
 - **separate extension (new WI) or annex - still not decided within MTS**
 - future discussion on generic notion of inheritance throughout TDL
- Implementation of mapping
 - **under TOP? with STF resources?**

Deliverable Planning

- Updates to Part 1 and Part 6
- Parts 2, 3, 4 updated according to changes in Part 1
- Part 5 (UML Profile) will not be updated according to changes
- Examples need to be updated and aligned (Milestone 3)

Status: Part 1

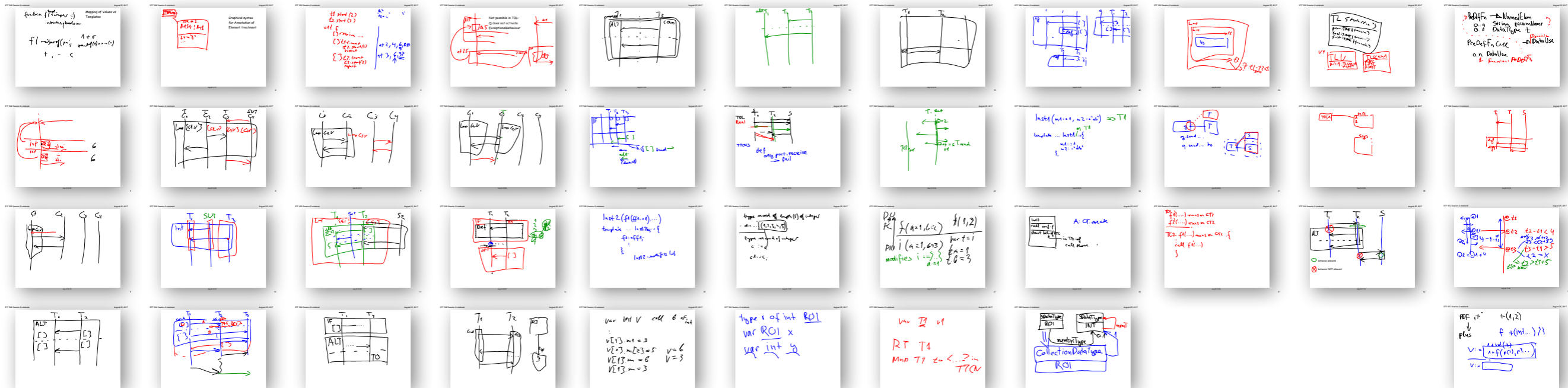
- Refinements
 - local ordering, collections, procedures, time-related concepts
 - future direction of TDL with regard to local ordering?
 - collections and strong type checking vs flexibility and responsibility?
 - predefined functions / operators - concepts and instances
 - definitions (tester-input event) and constraints
- Test configurations still in annex, move to separate document?
- Some updated / additional constraints still pending

Status: Part 6

- Structure and notation
 - reflect purpose and use of document, some deviations from Part 1
 - some formalisation, focus on explanations and examples
- Contents from Part 1 still present for reference
 - will be removed once mappings for an element are done
- Some examples already included

Status: Part 6

- Discussed difficult cases during Session 2
 - data: data instances annotated as values or templates (default)
 - time: quiescence in exceptional behaviour, time label use, time constraint
 - behaviour: combined behaviour and exceptional behaviour



Session 1

Session 2

Status: Task 4

- So far no response from GR
 - currently on business travel
- How to proceed?
 - try to reach GR during next week (also via phone)
 - discuss during MTS#72 if no response or resolution is reached

TOP

TOP Status

- Added
 - MM implementation (Part 1, Part 3)
 - Textual editor (Annex B, Part 1)
 - Graphical viewer (Part 2)
- Pending
 - Validation / constraint implementation
 - Translation between textual and XF representation
 - Textual editor (Annex B, Part 4) and Word generation

TOP Planning

- Oct 2017
 - communication activities: mailing list, documentation, UCAAT
 - features: improved graphical facilities
 - editing configurations and behaviour (some deviations from Part 2)
 - embedded textual editor for data use
 - validation integration
 - infrastructure: separate branches (1.4.1), update site / repository
 - technical details need to be determined (**add to task list**)

TOP Planning

- Mar 2018
 - add/merge new features: local ordering, procedures, etc.
 - TTCN-3 generation prototype (depends on new features)
 - additional documentation and outstanding tasks

TOP Promotion

- UCAAT 2017
 - TDL Tutorial at 9:00 on Wednesday
 - TDL Session at 16:00 on Wednesday
 - CTI Talk, STF Talk, FOKUS Talk (UTP and TDL compliance to ES 202 951)
 - TDL in MBT Session at 11:00 on Friday
 - TDL booth / information at ETSI stand
- Coordinate contributions by September 20
- Task list: [Google Spreadsheet](#)

TOP Promotion

#	Tasks	Vote	Priority
1	TDL Website review and TOP dedicate page(s)	2	A
2	Article for ETSI Magazine "The Standard"	2	A
3	Whitepaper on the advantages of TDL	1	B
4	Preparation of goodies for TDL (Tshirts?)	2	B
5	Finalize public wiki (https://tdl.etsi.org/wiki)	2	A
6	Create a mailing list dedicated to TOP	2	B
7	ETSI Webinar: to explain how to download, setup use the tools	1	B
8	Technical documentation on how to download, setup, use the tools	2	A
9	A guideline on how to contribute (design of the tools, where to modify)	2	B
10	Reaching out to the Testing community (forums? mailing lists? academia?)	2	C
11	ETSI press release	1	A
12	Sync on how to present TOP at UCAAT 17	2	
13	Request a TDL dedicated session at UCAAT 18 (?)	1	
14	A video with a Demo on how to use the tools	1	
15	Readme files for the repository	2	A
16	Invited talk on TDL at ICTSS 2017		
17	TDL at MODELSWARD 2018	1	
18	TOP logo vs TDL logo (?)		

Promotion

Other Promotional Activities

- Book chapter in GI TAV 25th Anniversary (STF 522)
 - based on SAM 2016 article, heavily revised after review from editors
 - awaiting second review round / publication
- Keynote at ICTSS (AU)
 - coordination and assistance requested
 - temporal challenge: Keynote on Monday, 2 days ahead of “launch”
- Subsequent article in SQJ (AU + ?)
- STF 522 page on ETSI portal

TDL at ETSI

CTI Inquiry

- Requested clarifications regarding behaviour and data
- STF reviewed and responded addressing the questions
 - mostly misunderstandings (TDL is becoming rather complex)
 - adequate tooling can support desired workflows
 - however, workflows may need to be reviewed as well
 - one potential CR regarding “modified” data instances
- TBC: Support for generating TTCN-3 is high priority

Next Steps

- Milestone 2 submission: September 15
- UCAAT 2017 contribution coordination: September 20
- MTS#72 and progress report: September 27
- UCAAT 2017 and TOP launch: October 11
- SG meeting: Mid-End November
- Milestone 3 submission: December 15 (wrong dates in WIs)
- Continuation of activities in the future? WIs TBD at MTS#72

Any other business?
