



STF 492: TD-LTE Phase 3

Status Report

Document History

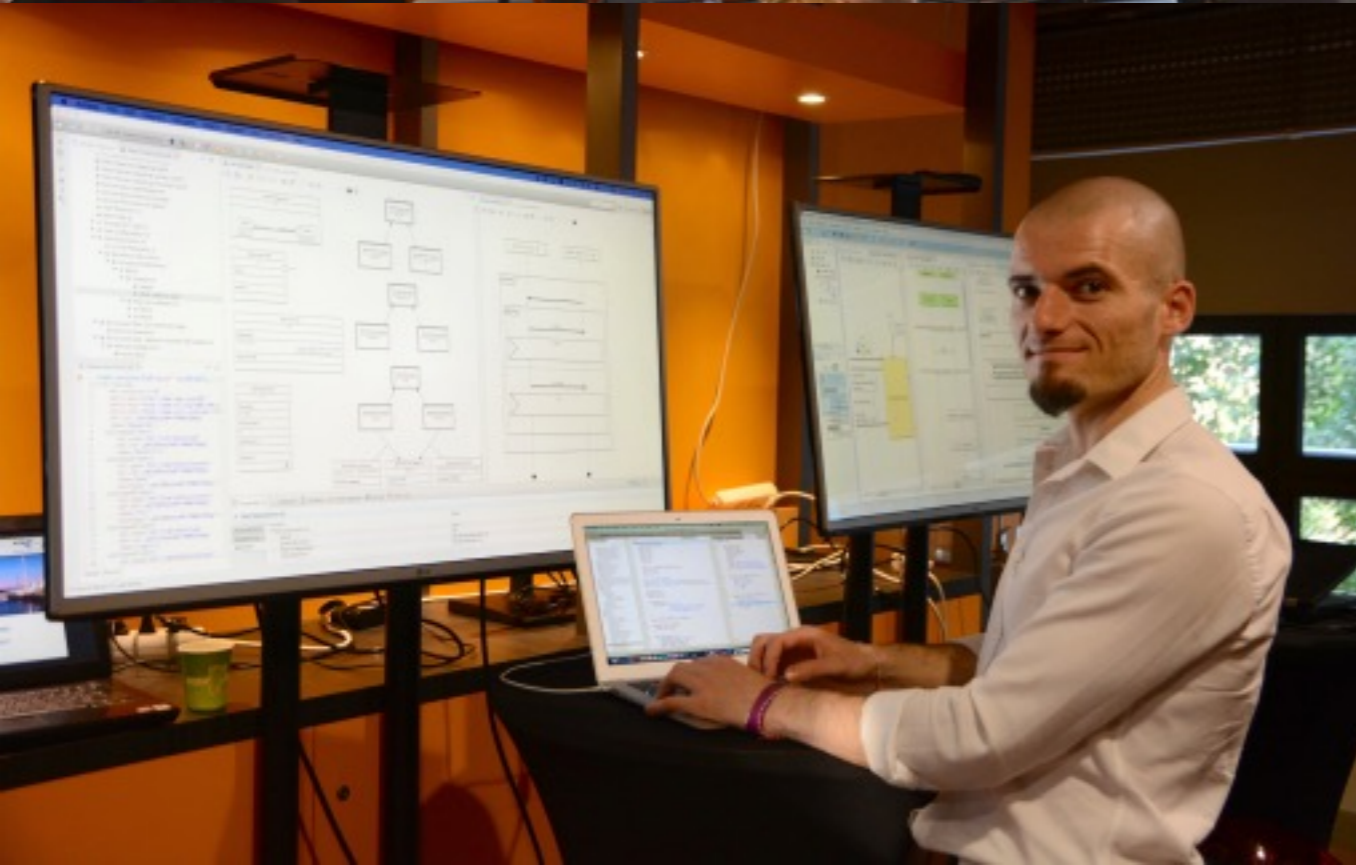
- 2016-01-27: Revised for MTS#67
- 2015-09-15: Revised for MTS#66
 - long form for TDL Technical Session
 - revised long form for MTS#66
- 2015-09-15: Revised for SG#3
- 2015-07-15: Revised for SG#2
- 2015-06-02: Document submitted for MTS #65
 - long form for TDL Technical Session
 - short form to be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

TPT Status



TDL Launch Event





TDL Launch Event: Summary

- Tutorial 90min:
 - Hosts: Xavier and Philip
- Keynote slot 45min
 - Host: Philip (introduction providing context for the guest speakers)
 - Guest speakers:
 - ETSI CTI (MO), CEA (XZ), FOKUS (MFW), VTT/MetaCase (TK/JPT), Elvior (AL), Ericsson (GR)
- Discussion at the booth with speakers and stakeholders

TDL Launch Event: Summary

- Demos and information at the booth
 - STF/CEA (XZ)
 - “Embedding TDL into the UML environment”
 - STF/Elvior (MK)
 - “Visualising generated tests with TDL”
 - STF/UG (PM)
 - different viewers and editors, general information about TDL, MTS, ETSI, STF work
 - MetaCase/VTT (JPT, Online)

TDL Launch Event: Summary

- Feedback from 16 people during and after UCAAT
- Website launched along UCAAT
 - needs further updates
- De-briefing on November 16, 2015
 - discussion of feedback and future of TDL
 - see also follow-up slides from AU, including future promotion

Status Update

Task 0: Work Plan

- Timescale: June 9, 2015 (+4 months) - March 31, 2016 (+2 months)
- 5 sessions planned so far (6 according to ToR)
 - WK24 Jun 09-12 Session 1 @ ETSI (4 days, with MTS#65)
 - WK36 Aug 31-Sep 04 Session 2 @ CEA (5 days)
 - WK41 Oct 06-09 Session 3 @ ETSI (4 days)
 - WK48 Nov 23-27 Session 4 (5 days, relocated to coordinated homework)
 - WK05 Feb 01-05 Session 5 @ Ericsson (5 days)
- more homework (delay, summer vacations, nature of work involved)

Task 0: Milestones and Resources

- Milestone 1: Jul 24 2015
 - Early Drafts: Part 1, TR, Part 3 (no change)
- Milestone 2: Oct 21 2015 (TDL Launch)
- Milestone 3: Dec 18 2015
 - Stable Drafts: Part 1, Part 3, TR
 - Early Drafts: Part 2, Part 4

Task 0: Milestones and Resources

- Milestone 4: Mar 01 2016
 - Stable Drafts: Part 2, Part 4
- Milestone 5: Mar 31 2016
 - Final Drafts: Part 1, Part 2, Part 3, Part 4, TR
- Resources
 - 72 days remaining per contract
 - 25 days already allocated for next week's session
 - 47 days for homework afterward (unevenly distributed)

Task 1

GR Viewer Implementation Tasks (until UCAAT 2015)	Effort (days)	Color Codes
1. Mappings for elements with simple shapes: Comment, AnnotationType, SimpleDataType, Time, SimpleDataInstance, GateType, GateInstance, ComponentInstance, Connection, TestObjective	0.5	Done
2. Composite shapes - rectangles inside rectangles laid out according to custom algorithm specified in GR.	1	Partially Done
2.1. Mappings for elements with composite shapes: Package, Annotation, TestObjective, StructuredDataType, StructuredDataInstance, Action, DataResourceMapping, DataElementMapping, TestConfiguration, ComponentType, TestDescription	0.5	Already provided
3. Sequence diagram	2	Next target
3.1. Viewer specific ViewerMM extensions needed to represent lifelines	0.5	
3.2. Viewer specific ViewerMM extensions needed to represent both begin and end of blocks	0.5	
3.3. Mappings: Interaction	1	
4. Action shapes across all lifelines - by default, actions are placed on a single life-line, but TDL GR specifies that actions should cover all life-lines	1	
4.1. left aligned icons in actions shapes - need custom layout policy	0.5	
4.2. Mappings: Wait, Quiescence, TimerStart, TimeOut, TimerStop, Break, Stop, VerdictAssignment, Assertion, ActionReference, InlineAction, Assignment, TestDescriptionReference	0.5	
5. Block shapes (combined fragments)	1	
5.1. Floating labels in blocks (guard, period)	0.5	
5.2. Mappings: CombinedBehaviour, Block, CompoundBehaviour, BoundedLoopBehaviour, UnboundedLoopBehaviour, AlternativeBehaviour, ConditionalBehaviour, ParallelBehaviour, DefaultBehaviour, InterruptBehaviour, PeriodicBehaviour	0.5	
6. Data expressions in sequence diagram	1	
6.1. Integration with Xtext-based serializer	1	
6.2. Mappings: DataUse and sub-classes	0.5	
7. Automation: diagram creation, image export	2	
8. Mixed font labels	0.5	
8.1. Mappings: Function	1	
9. Nodes attached to lifelines in sequence diagrams	1	
9.1. Mappings: TimeLabel, TimeConstraint	1	
10. Nested block shapes	2	
11. Coincident arrow shapes for multicast interactions	1.5	
12. Floating variable assignment labels for interactions (only required for multicast interactions)	0.5	
13. Layout inside multipart containers	2	
Additional features and issues		
Comment figures don't have auto-size enabled initially (resulting in oversized figures)	0.5	
Layout in test configuration	1.5	
Placement of bordered nodes and labels (gate instances)	1	
Optimistic total	27	
Pessimistic (+20%)	5.4	
Expected total	35.4	

	Outstanding Implementation Tasks (beyond UCAAT 2015)	Effort (days)
1	Layout of diagrams (GR)	5
2	Distribution of elements across diagrams (GR)	3
3	Textual editor (?)	5
4	Validation (standalone)	3
5		
6	Editing test objectives	5
7	Exporting test objectives (Word)	4
8	Extending test objectives (additional constructs)	3
9	External data translation (ASN.1, XML)	4
10	XF support	2
11	TR, documentation	15
12		
	Optimistic total	49
	Pessimistic (+20%)	9.8
	Expected total	58.8

Task 1: Status

- Most shapes mapped
 - still rough around the edges - borders, labels, overall look needs tuning
- Basic layout for UCAAT
 - manual layout still needed (benefit of using Sirius)
- TR in progress
 - work on high priority clauses first

Task 2

Task 2: Status

- Profile implementation
 - in testing, some mapping changes pending (e.g. DataInstance)
- Profile documentation
 - Annex C of Part 1, updated according to latest changes
- Future of profile
 - Profile as a separate document TBD beyond the STF
 - Distribution of profile only after it is finalised

Task 3

Task 3: Status

Clause	# constraints	# constraints done
Foundation	8	8
Data	19	17
(Data definition)	7	7
(Data use)	12	10
Time	9	7
Test Configuration	6	6
Test Behaviour	35	26
(Test Description)	0	0
(Combined Behaviour)	14	9
(Atomic Behaviour)	21	17
Total # constraints	77	64

- Further OCL constraints pending
- Validation in progress (15 out of 77)

Task 3: Status

- Addressed several CRs
 - new clause 4.3 “Principal Design Approach” (Basic Principles)
 - extended description of 4.4 “Document Structure”
 - moved constraint from clause 6.3.3 to clause 6.3.4
 - moved dataType property from SpecialValueUse to AnyValue
 - refined semantics of AnyValue
 - refined constraints for MemberAssignment and ParameterBinding
- Pending: Annex B updates

Task 4

Task 4: TO Status

- After discussion with CTI in October
 - final format for OneM2M determined and prototypically implemented
 - different/multiple output formats can be selected
 - PlugTests as further target for adoption of TDL
 - use TDs rather than TPs, update of TDL in addition to TO
 - target timeframe early/mid 2016

Task 4: TO Status

- Progress on new features
 - iterative and periodic behaviour
 - multiple arguments
- Pending
 - event patterns
 - document formatting (diagrams, examples)
 - update examples and BNF

Task 4: GR Status

- Addressed several CRs for GR
 - fixed typos and other refinements
 - added notation for top level Element meta-class
 - refined NamedElement notation
 - refined AnyValue specification to support optional dataType property
 - refined terminology consistency (point-to-point, multipoint)
 - input regarding alternative syntax for “lifelines”

Task 4: XF Status

- Addressed CRs related to MM change (dataType of AnyValue)
 - updated Annex A (XMI Schema)
 - updated examples

Any Other Business?

- Open Tasks:
 - Update website (next week's session)
 - add new tutorial slides, keynote slides, short summary of launch event under news
 - coordinate with MO
 - ensure that the website is indexed by Google and other search engines (robots.txt?)
 - coordinate with MO / HelpDesk
 - update examples (after next week's session provided there are no further changes expected afterward)
 - Update status of TO-CRs, provide list of open and resolved CRs

Any Other Business?

- Steering group reorganisation
 - New leader: **Andrej**
- Steering group meetings (proposed timeframes) - TBC in MTS#67
 - Next SG meeting target WK8/9 - (22-Feb - 04-Mar) (exact time TBD)
 - Additional meeting as needed before Milestone 5
 - keep in mind Easter holidays WK12/13 (25-Mar - 28-Mar)
 - Remote consensus in April
 - demos (especially targeting ETSI), recap meeting during WK14/15 (04-Apr - 15-Apr)

Any Other Business?

- ToR drafting timeline
 - input needed by Alberto in April

