



STF 492: TD-LTE Phase 3

Status Report

Document History

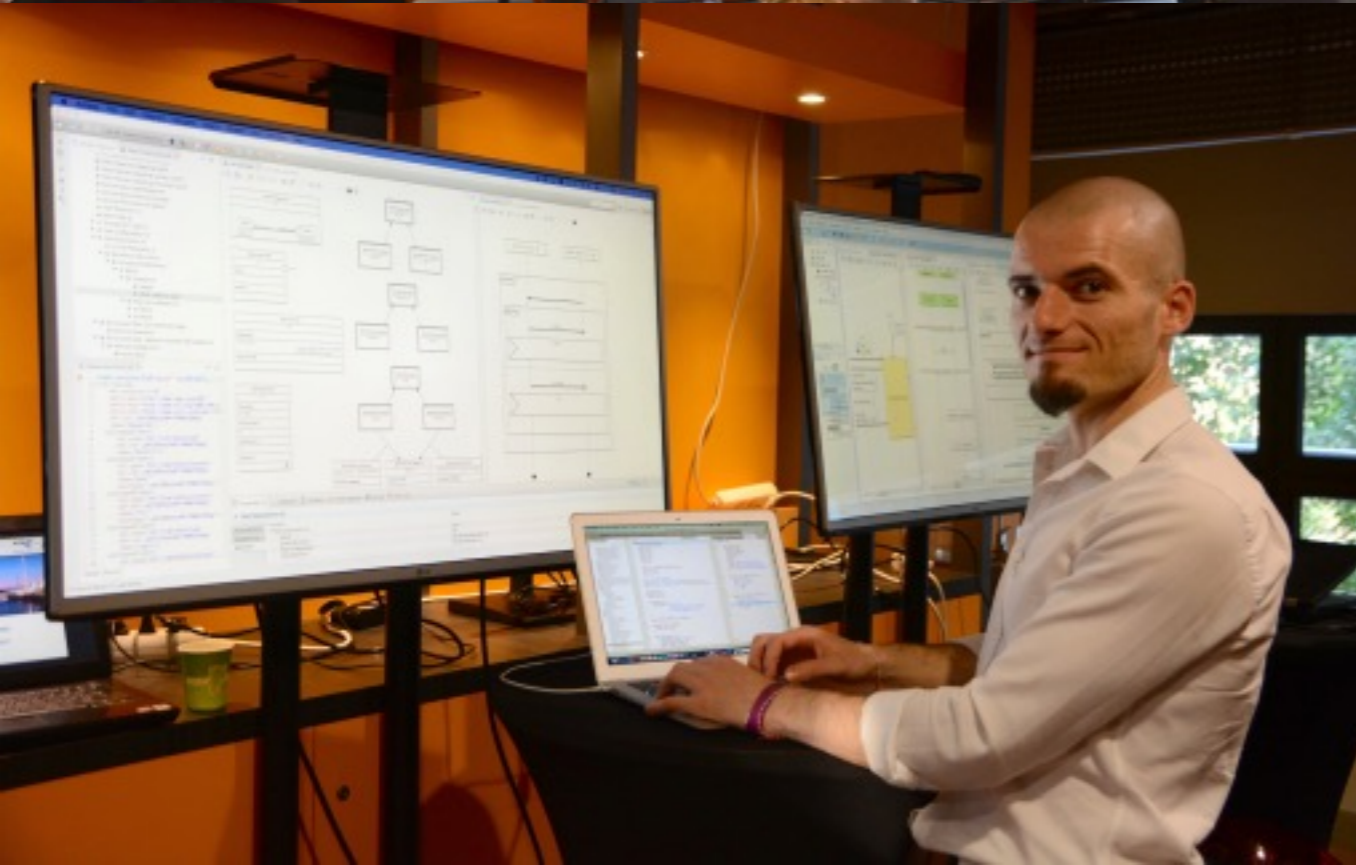
- 2016-01-27: Revised for MTS#67
 - long form for TDL Technical Session
 - revised short form for MTS#67
- 2015-09-15: Revised for MTS#66
 - long form for TDL Technical Session
 - revised long form for MTS#66
- 2015-09-15: Revised for SG#3
- 2015-07-15: Revised for SG#2
- 2015-06-02: Document submitted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

TPT Status



TDL Launch Event





TDL Launch Event: Summary

- Scope
 - 90min Tutorial + 45min Keynote with 6 guest speakers
 - Demos and discussions at the booth during breaks
 - Website, flyer, poster, logo
- Feedback from 16 people during and after UCAAT
- De-briefing on November 16, 2015
 - discussion of feedback and future of TDL
 - see also slides from AU, including notes on future promotion



Status Update

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
 - 86 days remaining per contract
 - 25 days already allocated for next week's session in Budapest
 - 61 days for homework afterward

Task 1

GR Viewer Implementation Tasks (until UCAAT 2015)	Effort (days)	Actual (days)	Difference	Pending (days)	Color Codes
1. Mappings for elements with simple shapes: Comment, AnnotationType, SimpleDataType, Time, SimpleDataInstance, GateType, GateInstance, ComponentInstance, Connection, TestObjective	0.5	1	0.5	0	Done
2. Composite shapes - rectangles inside rectangles laid out according to custom algorithm specified in GR.	1	1	0	0	Partially Done
2.1. Mappings for elements with composite shapes: Package, Annotation, TestObjective, StructuredDataType, StructuredDataInstance, Action, DataResourceMapping, DataElementMapping, TestConfiguration, ComponentType, TestDescription	0.5	1.5	1	0	Already provided
3. Sequence diagram	2	2.5	0.5	0	Next target
3.1. Viewer specific ViewerMM extensions needed to represent lifelines	0.5	0.5	0	0	
3.2. Viewer specific ViewerMM extensions needed to represent both begin and end of blocks	0.5	1	0.5	0	
3.3. Mappings: Interaction	1	1	0	0	
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	0.5	-0.5	0	
4.1. left aligned icons in actions shapes - need custom layout policy	0.5	0.5	0	0	
4.2. Mappings: Wait, Quiescence, TimerStart, TimeOut, TimerStop, Break, Stop, VerdictAssignment, Assertion, ActionReference, InlineAction, Assignment, TestDescriptionReference	0.5	1	0.5	0	
5. Block shapes (combined fragments)	1	1	0	0	
5.1. Floating labels in blocks (guard, period)	0.5	0.5	0	0	
5.2. Mappings: CombinedBehaviour, Block, CompoundBehaviour, BoundedLoopBehaviour, UnboundedLoopBehaviour, AlternativeBehaviour, ConditionalBehaviour, ParallelBehaviour, DefaultBehaviour, InterruptBehaviour, PeriodicBehaviour	0.5	1	0.5	0	
6. Data expressions in sequence diagram	1	1	0	0	
6.1. Integration with Xtext-based serializer	1	0.5	-0.5	0	
6.2. Mappings: DataUse and sub-classes	0.5	0.5	0	0	
7. Automation: diagram creation, image export	2		0	2	
8. Mixed font labels	0.5		0	0.5	
8.1. Mappings: Function	1	0.5	-0.5	0	
9. Nodes attached to lifelines in sequence diagrams	1		0	1	
9.1. Mappings: TimeLabel, TimeConstraint	1		0	1	
10. Nested block shapes	2	0	-2	0	
11. Coincident arrow shapes for multicast interactions	1.5		0	1.5	
12. Floating variable assignment labels for interactions (only required for multicast interactions)	0.5		0	0.5	
13. Layout inside multipart containers	2	2.5	0.5	0	
Additional features and issues			0	0	
Comment figures don't have auto-size enabled initially (resulting in oversized figures)	0.5		0	0.5	
Layout in test configuration	1.5		0	1.5	
Placement of bordered nodes and labels (gate instances)	1		0	1	
Optimistic total	27	18	0.5	9.5	
Pessimistic (+20%)	5.4				
Expected total	32.4			27.5	
Actual total (current)	18				
Net difference (current)	0.5				
Pending* (+ additional for tasks in progress)				9.5	
Expected total (current, - additional for tasks in progress)	27.5				

	Outstanding Implementation Tasks (beyond UCAAT 2015)	Effort (days)	Actual (days)	Difference	Pending (days)
1	Layout of diagrams (GR)	5	2	-3	0
2	Distribution of elements across diagrams (GR)	3		0	3
3	Textual editor (?)	5		0	5
4	Validation (standalone)	3	1.5	-1.5	0
5				0	0
6	Editing test objectives	5	5.5	0.5	0
7	Exporting test objectives (Word)	4	6	2	0
8	Extending test objectives (additional constructs)	3	3	0	0
9	External data translation (ASN.1, XML)	4		0	4
10	XF support	2	1.5	-0.5	0
11	TR, documentation	15	9	-6	0
12					
	Optimistic total	49	28.5	-8.5	12
	Pessimistic (+20%)	9.8			
	Expected total	58.8			40.5
	Actual total (current)	28.5			
	Net difference (current)	-8.5			
	Pending* (+ additional for tasks in progress)	12			
	Expected total (current, - additional for tasks in progress)	40.5			

Task 1 Resources Summary

	Estimated	Actual (current)	Pending	Expected
P1 (UCAAT)	27	18	10	28
P2 (Beyond)	49	28	22	50
UML Profile	23	20	5	25
Total	99	66	37	103

Task 2

Task 2: Status

- Profile implementation
 - in testing, some mapping changes pending (DataElementMapping)
- Profile documentation
 - Annex C of Part 1, updated according to latest changes
 - ensure that Annex C is normative
- 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)
- MM refinements (design principles, constraint relocation, semantics)

Task 4

Task 4: Status

- GR
 - alternative notation for lifelines (see related document)
 - various refinements (terminology, MM changes, notation)
- XF
 - schema and example updates
- TO
 - features: iterative and periodic behaviour, multiple event arguments
 - implementation: custom output formats can be selected for export to Word

Mantis

Id	Project	Category	Summary	Status
7108	Part-1 TDL meta-model	New Feature	Formalise meta-model constraints	assigned
7161	Part-1 TDL meta-model	Clarification	Check whether there is a usage restriction for AnyValueOrOmit and add one if necessary	resolved
6877	Part-1 TDL meta-model	Editorial	Clarification of the purpose of sub-clauses of a clause describing a meta-class element for readers who are not literate in UML	resolved
6768	Part-1 TDL meta-model	New Feature	New MM element as the starting point of the Behaviour Description of a Test Description	resolved
7177	Part-1 TDL meta-model	Technical	StaticDataUse constraint needs to be revised and moved to DataInstanceUse	resolved
7159	Part-1 TDL meta-model	Technical	Change dataType multiplicity for SpecialValueUse	resolved
6833	Part-1 TDL meta-model	Technical	Ambiguous meaning of optional behaviour	resolved
7105	Part-2 TDL graphical syntax	Clarification	Check terminology consistency with regard to "multicast"	feedback
7160	Part-2 TDL graphical syntax	Technical	Extend syntax for AnyValue to add support for specifying optional data type	assigned
7109	Part-2 TDL graphical syntax	Editorial	Clarifications regarding GateInstances necessary	closed
7162	Part-2 TDL graphical syntax	Editorial	Fix typo in DataElementMapping	closed
7229	Part-2 TDL graphical syntax	Technical	Production rule for non-terminal "ReductionLabel" is missing	closed
7110	Part-2 TDL graphical syntax	Editorial	Ensure consistency between meta-model properties and graphical syntax labels	feedback
7178	Part-2 TDL graphical syntax	New Feature	Alternative gate/component representation with regard to lifelines	feedback
7243	Part-3 TDL exchange format	Technical	Fix obsolete element naming in the schema	resolved
7244	Part-3 TDL exchange format	Technical	Change dataType property for SpecialValue use and AnyValue to match corresponding changes in the meta-model	resolved
7192	Part-4 Test objectives	New Feature	Add support for explicit formal TO parameters	assigned
7190	Part-4 Test objectives	New Feature	Flexible Inline Data Use with Predefined Data Types	assigned
7191	Part-4 Test objectives	Technical	Add 'entity' keyword with all entity references for consistency	assigned
7242	Part-4 Test objectives	New Feature	New feature to define iterative and periodic structured test objective behaviour	assigned
7241	Part-4 Test objectives	New Feature	Support for multiple arguments for Event Occurrences	assigned

Technical Session on 26.01.2016

Technical Session Summary

- 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)

Technical Session Summary

- 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

