



# STF 492: TD-LTE Phase 3

## Status Report

# Document History

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- 2015-09-15: Revised for MTS#66
  - long form for TDL Technical Session
  - short 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

# TPT: Launch Event

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- Keynote slot 45min
  - Main speaker: Philip (10-15min)
  - Content: summary / introduction providing context for the guest speakers
    - first draft pending
- Guest speaker line-up (tentative order):
  - ETSI CTI (MO/AW), CEA (XZ), Ericsson (GR), MetaCase (JPT), Elvior (AL), FOKUS (MFW)
  - timeline, preparation instructions, and scope guidelines distributed

# TPT: Launch Event

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- Discussion
  - short Q&A at the end of the keynote slot (1-3 questions, ~5min)
  - questions directed to individual speakers or all speakers
  - invite the audience to join the discussion at the booth
    - all speakers and stakeholders should be available for further questions at the booth during the subsequent lunch break after the keynote

# TPT: Launch Event

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- Demos (schedule and descriptions TBA)
  - CEA (XZ)
  - Conformiq (SS, TBC) - examples ASAP (on website)
  - Elvior (MK, TBC)
  - MetaCase (JPT)
  - UG (PM)
  - UO (NK, TBC)

# TPT: Launch Event

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- Demos (STF)
  - Reference implementation - viewers (GR), editors? (custom syntax)
  - UML Profile
  - Transformations?
    - basic TTCN-3 skeletons?
    - TO to Word export?

# TPT: Leaflet



## Test Description Language

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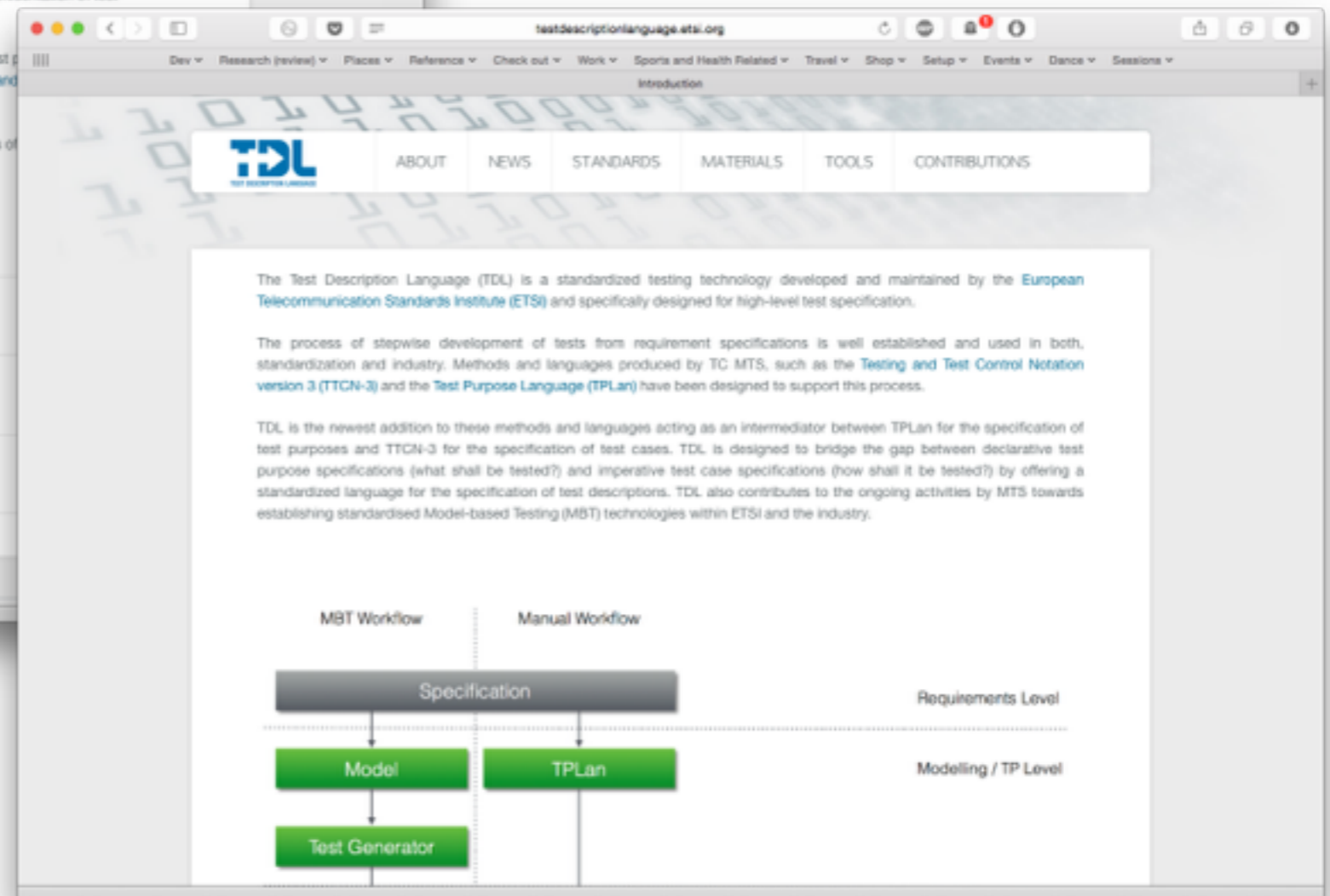
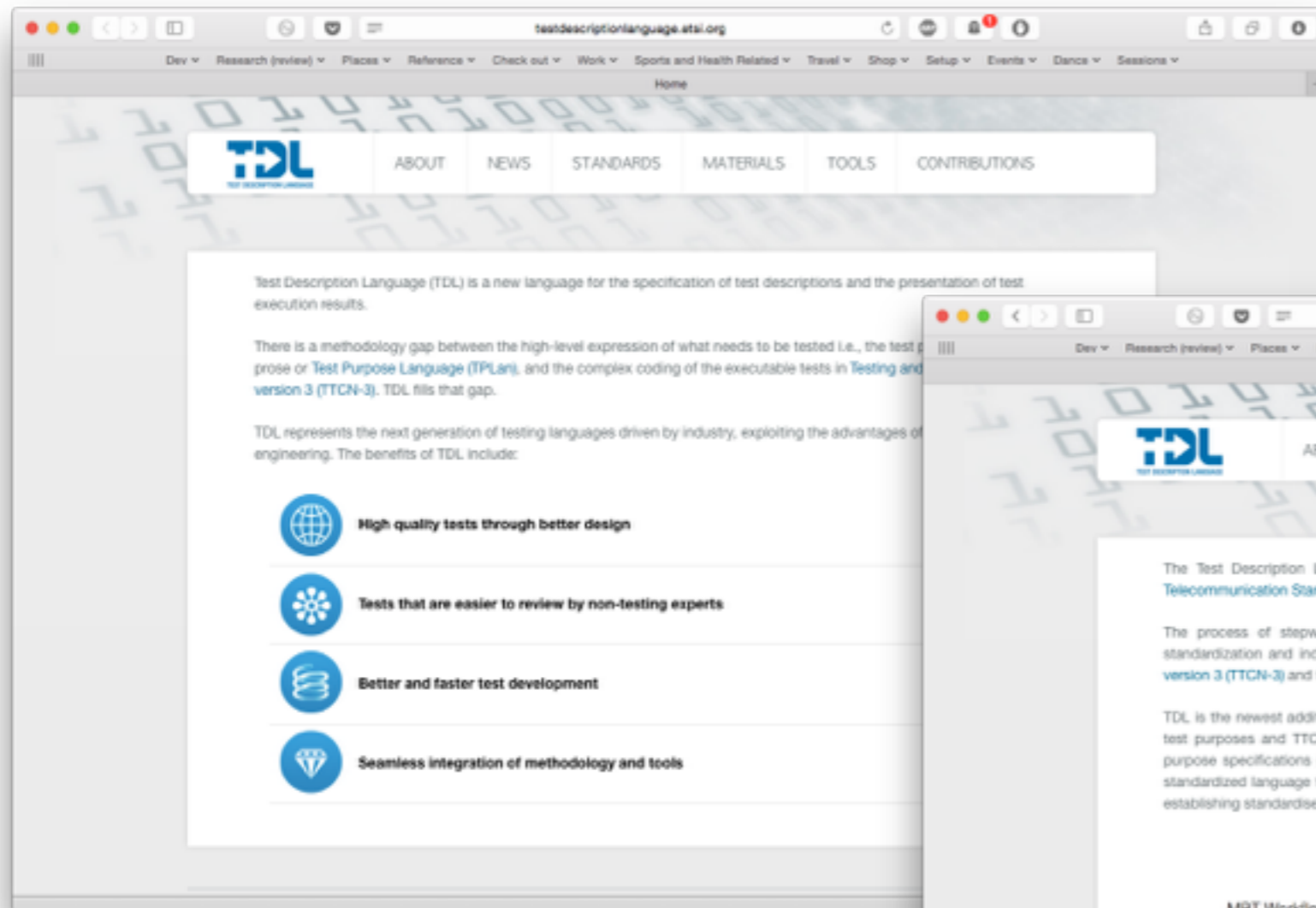


# TPT: Website

---

- about -> flatten?
  - introduction
  - why use TDL?
  - TDL in context (where does TDL fit in, reference architecture)
  - references -> later point or based on endorsement?
  - history
- learn / materials -> flatten?
  - tutorials and presentations
  - bibliography
- downloads -> flatten?
  - standards
  - examples
  - experience package? (or under tools?)
- URL: - <http://tdl.etsi.org>
- Minor updates pending (colours, figures, text, materials)
- tools -> flatten?
  - reference implementation
  - uml profile
  - non-commercial
  - commercial
- development -> maybe later
- community -> flatten?
  - editorial team
  - news
  - events
  - links
  - change requests
  - mailing list

# TPT: Website



# TPT: Misc

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- TDL tutorial at UCAAT 2015
- Posters for UCAAT
  - generic kakemono, demos poster with schedule, generic TDL poster
  - partner logs on poster?
- Further materials?
  - Pens, mugs, etc.
- TDL logo
  - status unclear



# 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 @ ETSI (TBC)
  - WK05 Feb 01-05 Session 5 @ Ericsson (TBC)
- more homework (delay, summer vacations, nature of work involved)

# Task 0: Milestones and Timescale

---

- Milestone 1: Jul 24 2015
  - Early Drafts: Part 1, TR
- 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 Timescale

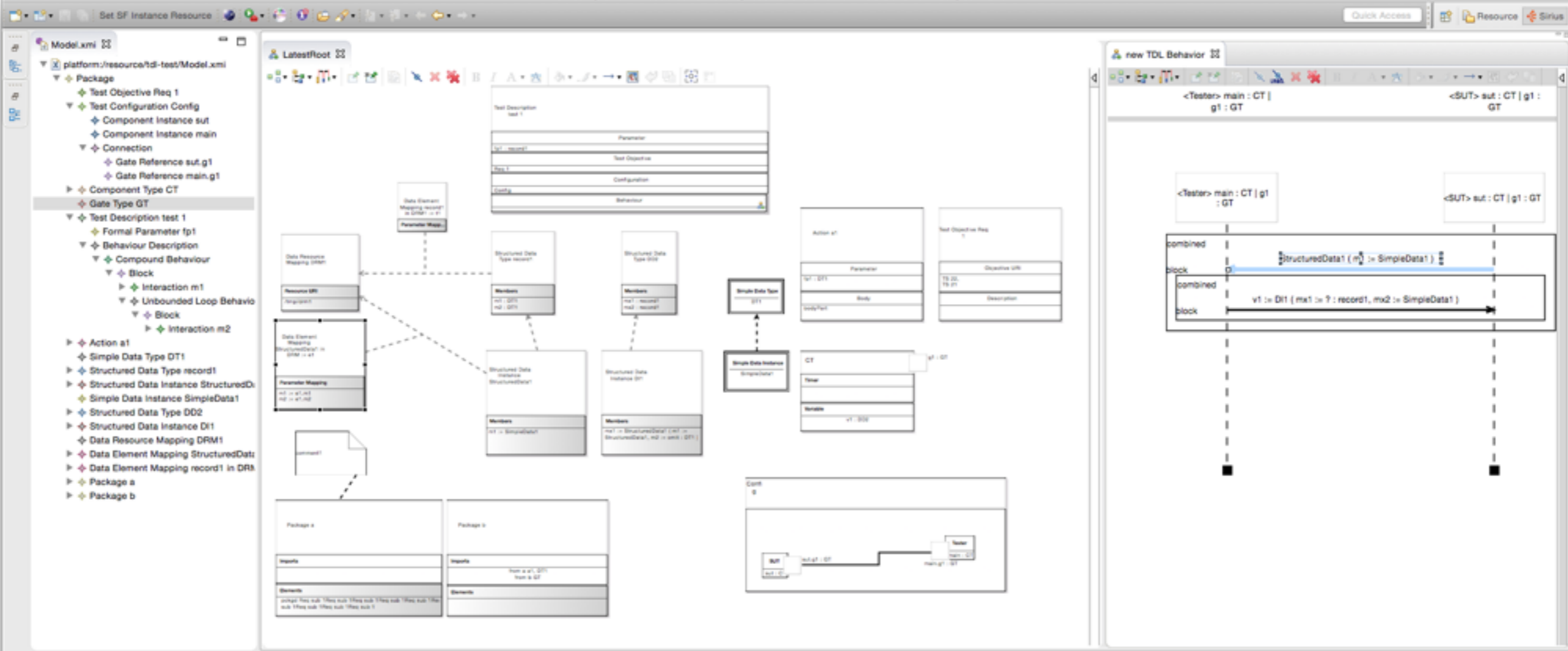
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- Milestone 4: Mar 01 2016
  - Stable Drafts: Part 2, Part 4
- Milestone 5: Mar 31 2016
  - Final Drafts: Part 1, Part 2, Part 3, Part 4, TR

# 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	
Optimistic total	24	
Pessimistic (+20%)	4.8	
Expected total	28.8	



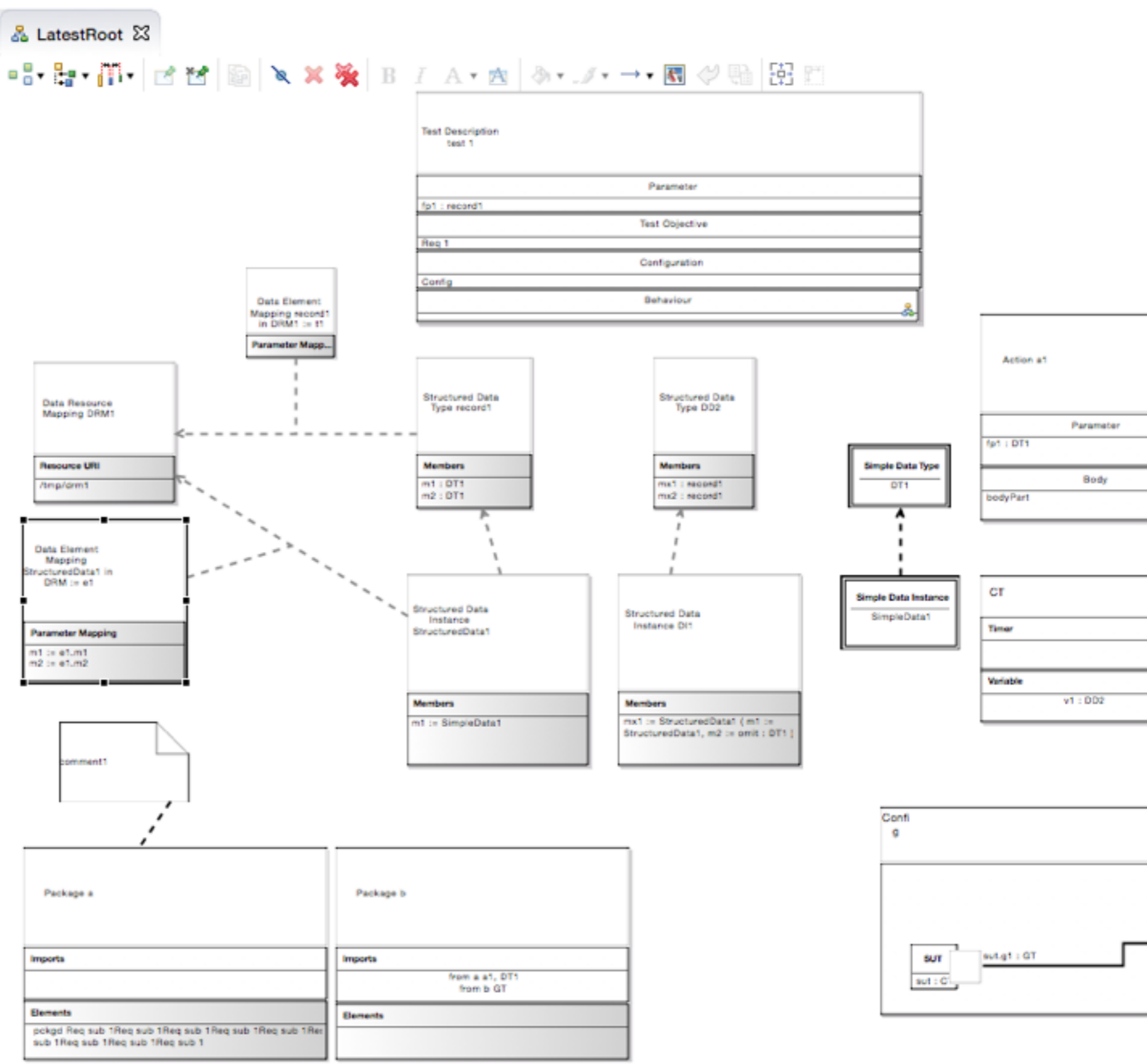
Properties <> Interpreter Problems Project Explorer Console Error Log

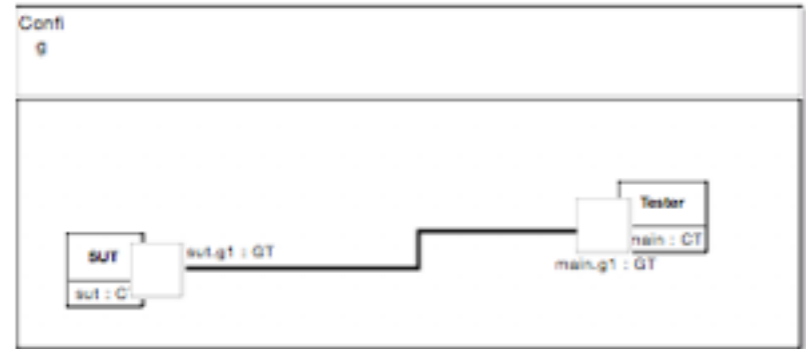
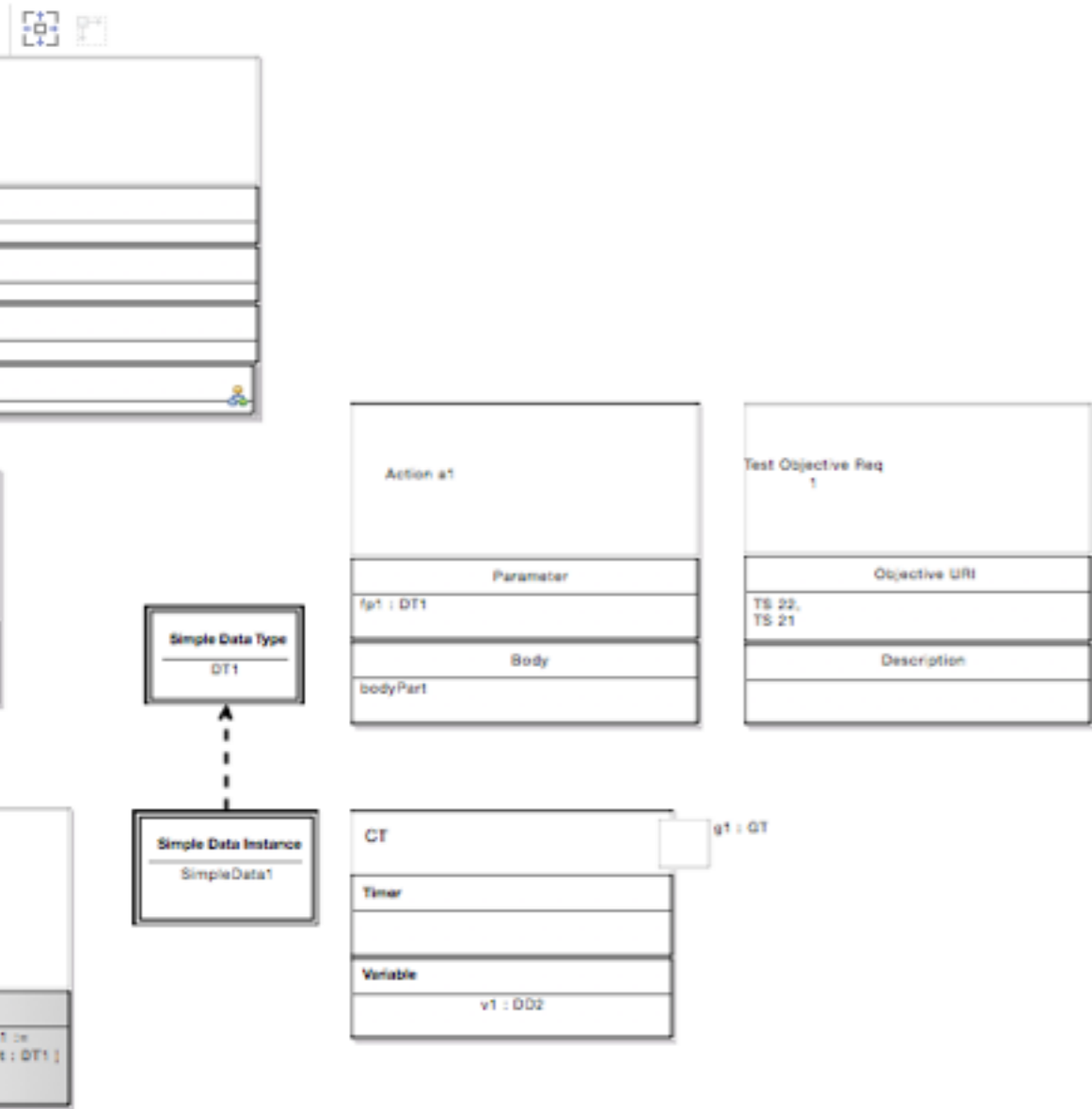
Interaction m1

Semantic	Property	Value
	Interaction m1	
Style	Is Trigger	false
	Name	m1
	Source Gate	Gate Reference sut.g1
	Test Objective	

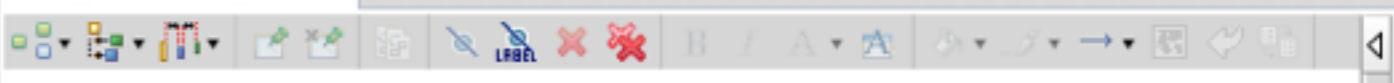
Set SF Instance Resource

- Model.xml
- platform:/resource/tdl-test/Model.xml
    - Package
      - Test Objective Req 1
      - Test Configuration Config
        - Component Instance sut
        - Component Instance main
      - Connection
        - Gate Reference sut.g1
        - Gate Reference main.g1
    - Component Type CT
    - Gate Type GT
    - Test Description test 1
      - Formal Parameter fp1
      - Behaviour Description
        - Compound Behaviour
          - Block
            - Interaction m1
            - Unbounded Loop Behavior
              - Block
                - Interaction m2
      - Action a1
      - Simple Data Type DT1
      - Structured Data Type record1
      - Structured Data Instance StructuredData1
      - Simple Data Instance SimpleData1
      - Structured Data Type DD2
      - Structured Data Instance DI1
      - Data Resource Mapping DRM1
      - Data Element Mapping StructuredData1 in DRM
      - Data Element Mapping record1 in DRM
      - Package a
      - Package b

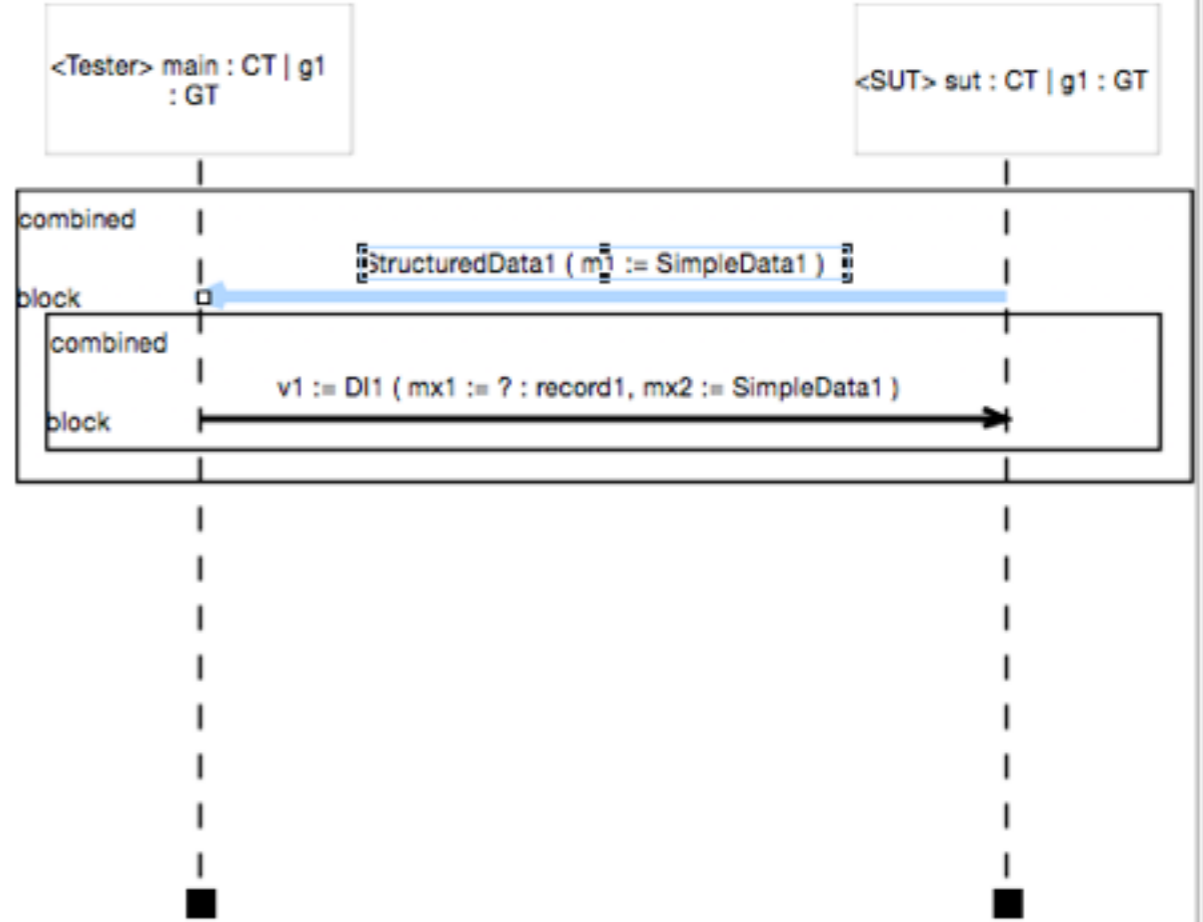




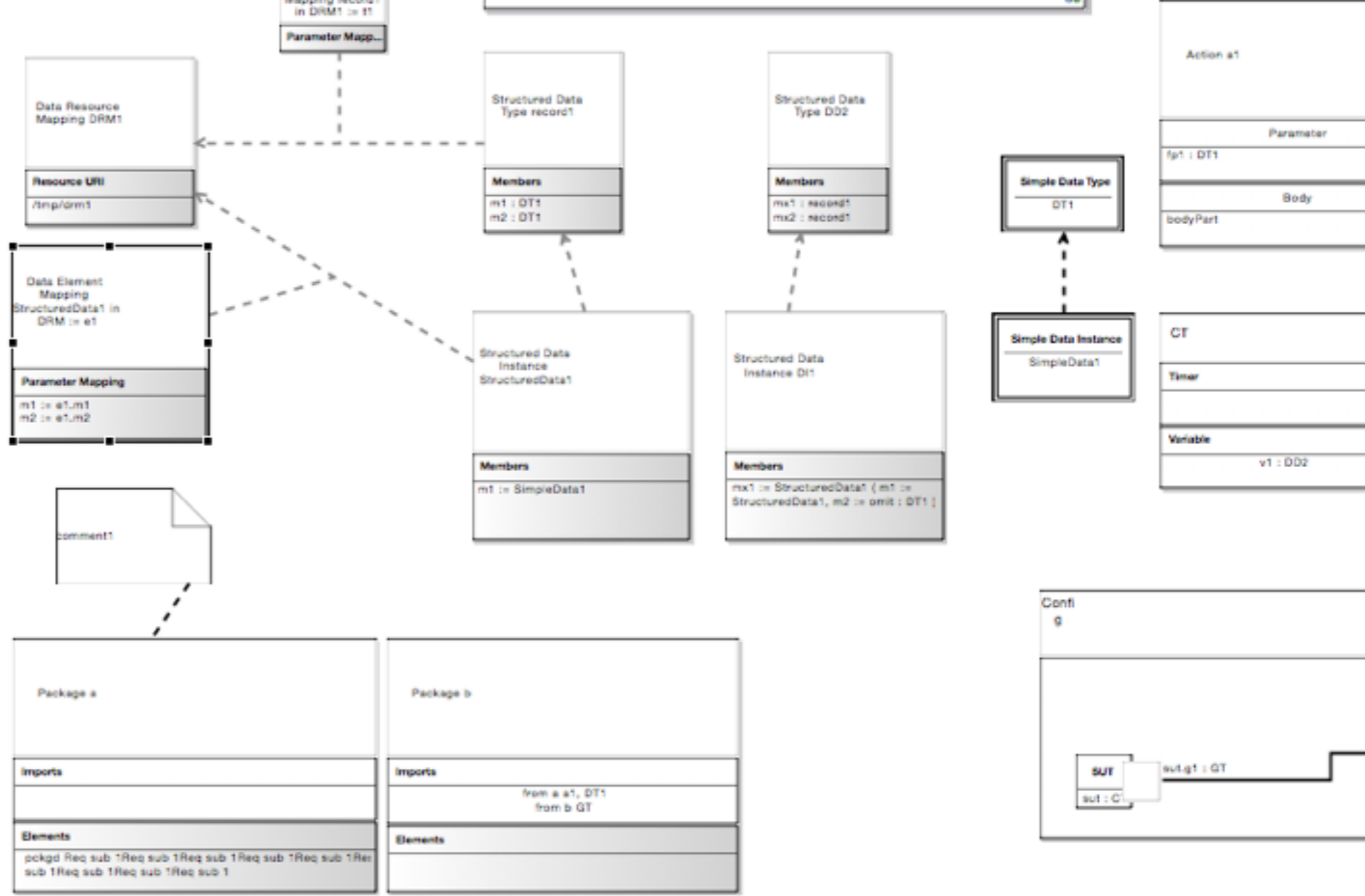
new TDL Behavior



<Tester> main : CT | g1 : GT      <SUT> sut : CT | g1 : GT



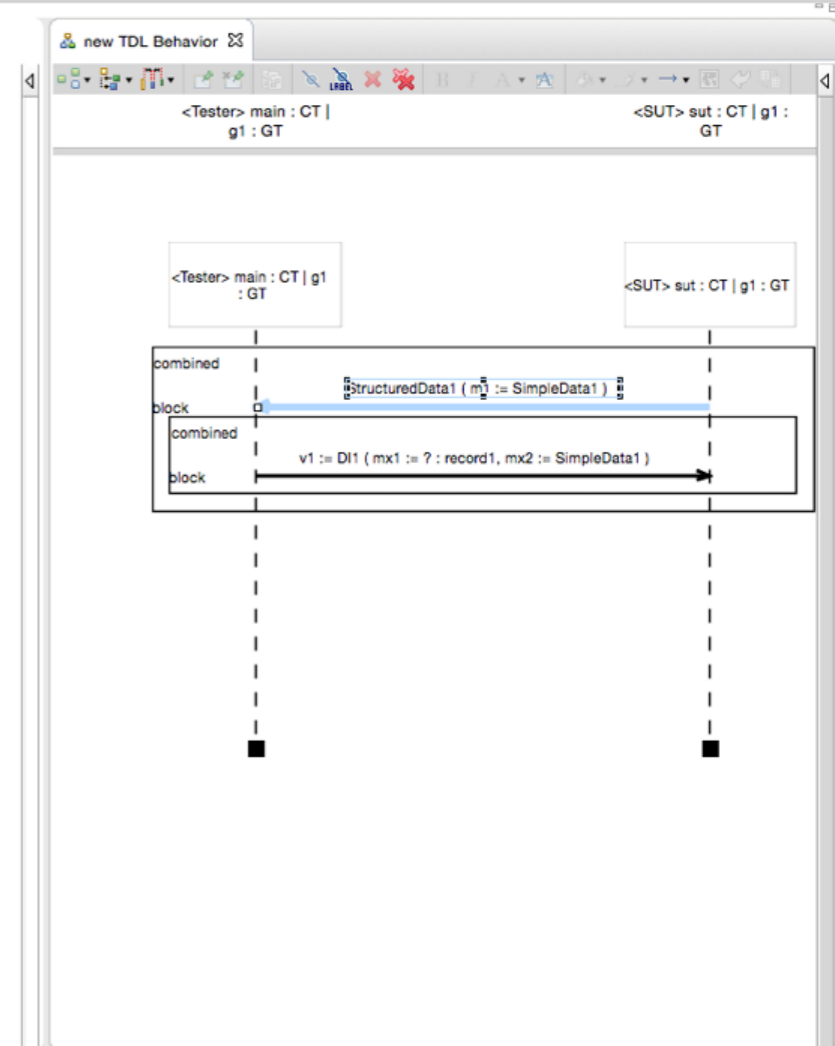
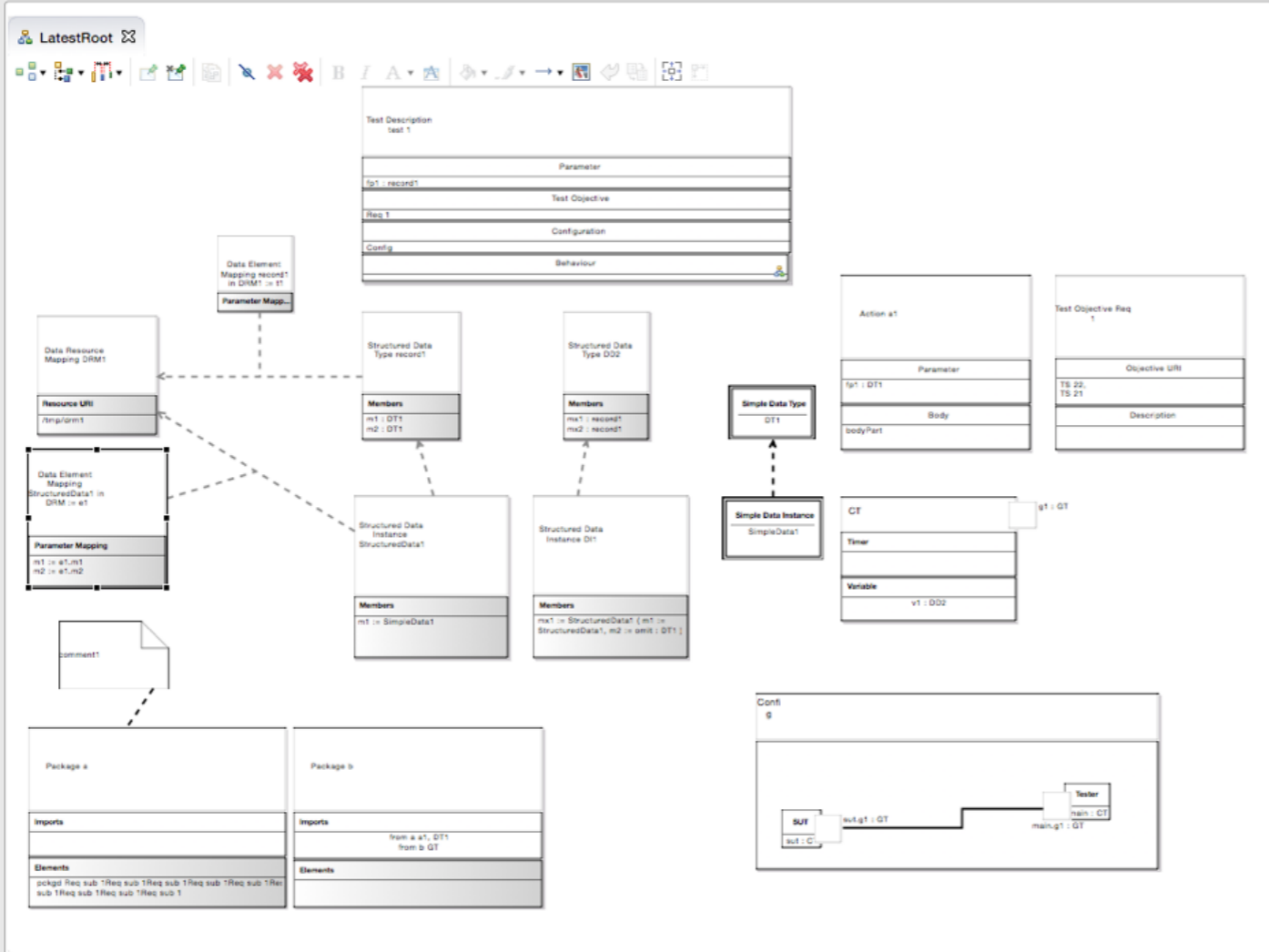
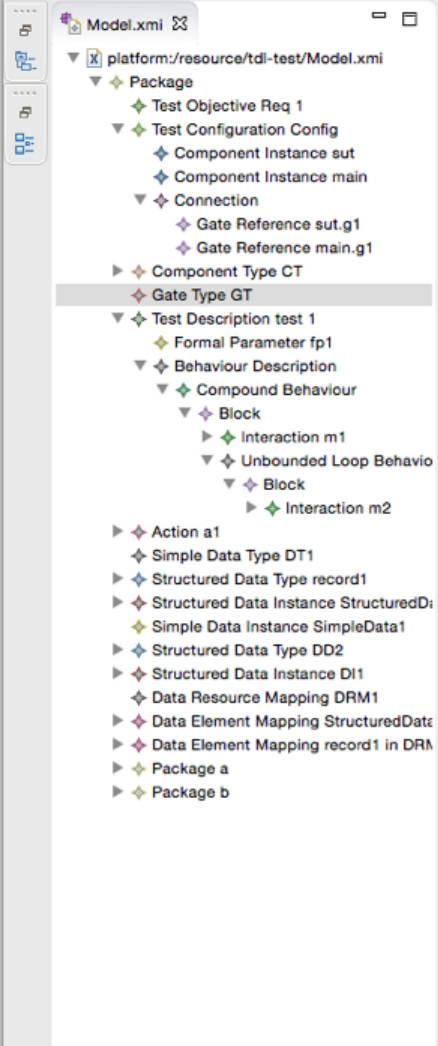
- Test Description test 1
  - Formal Parameter fp1
  - Behaviour Description
    - Compound Behaviour
      - Block
        - Interaction m1
          - Unbounded Loop Behavior
            - Block
              - Interaction m2
- Action a1
  - Simple Data Type DT1
  - Structured Data Type record1
  - Structured Data Instance StructuredD:
  - Simple Data Instance SimpleData1
  - Structured Data Type DD2
  - Structured Data Instance DI1
  - Data Resource Mapping DRM1
  - Data Element Mapping StructuredData
  - Data Element Mapping record1 in DRM
  - Package a
  - Package b



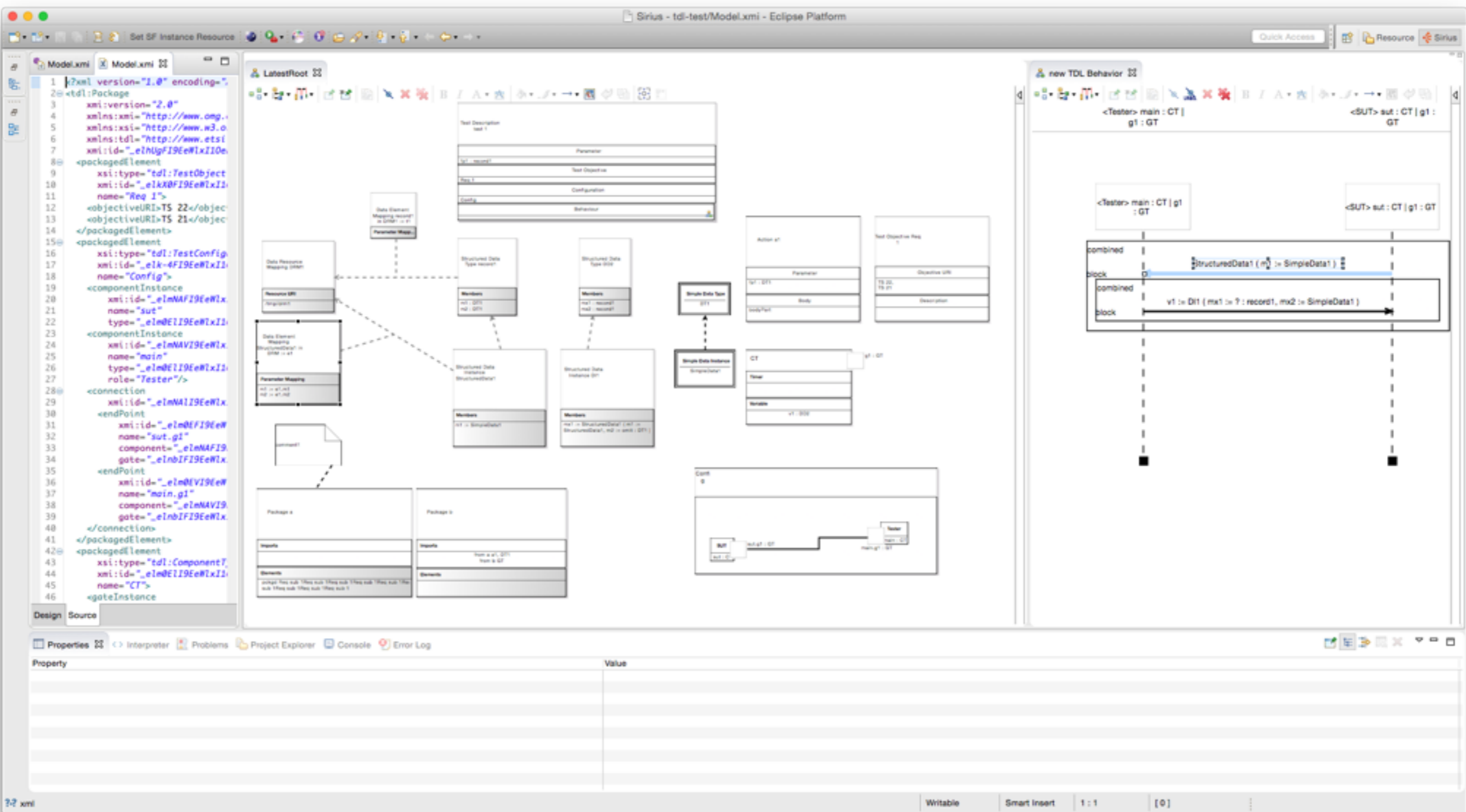
Properties  Interpreter  Problems  Project Explorer  Console  Error Log

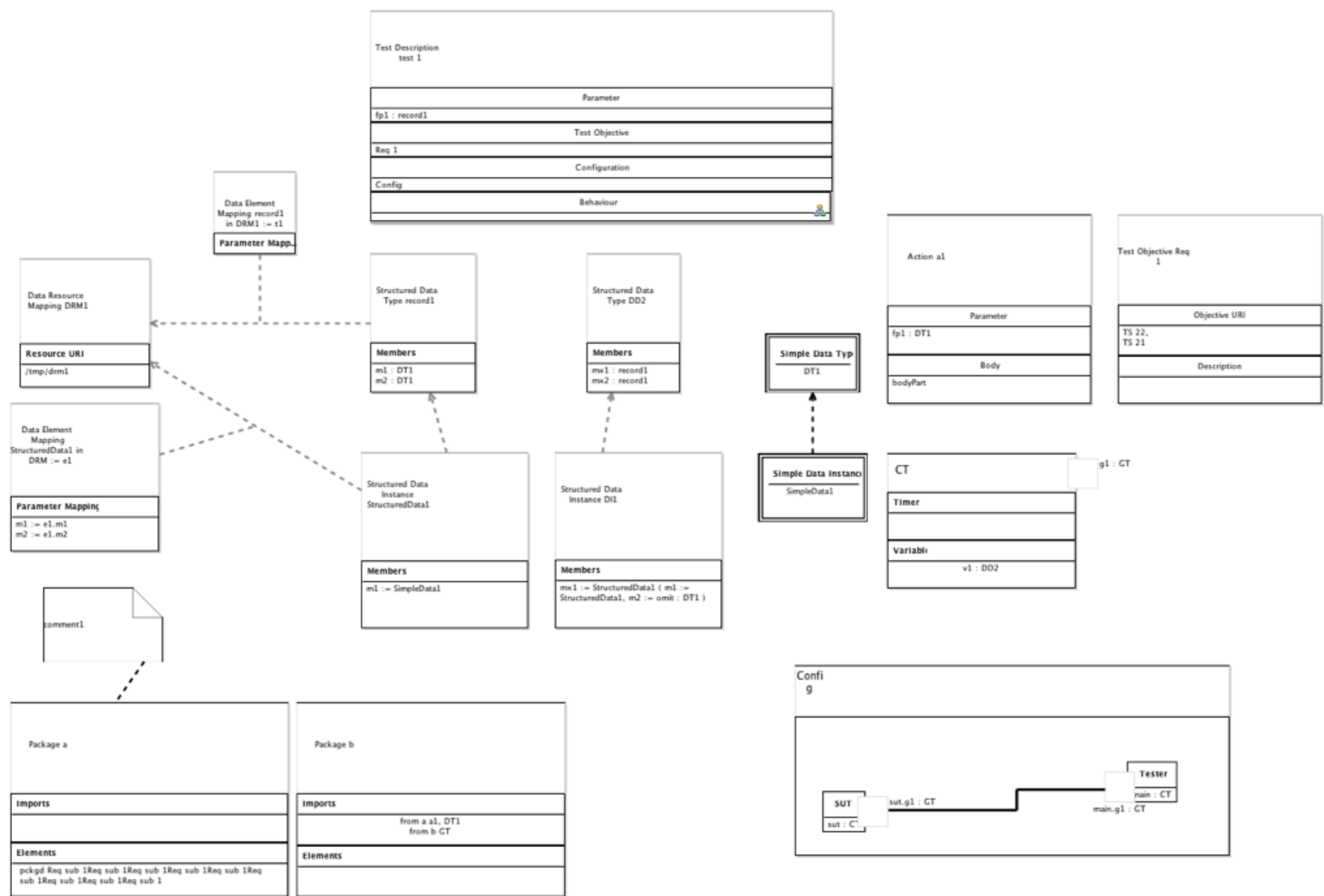
Interaction m1

Semantic	Property	Value
Style	Interaction m1	
	Is Trigger	false
	Name	m1
	Source Gate	Gate Reference sut.g1
	Test Objective	

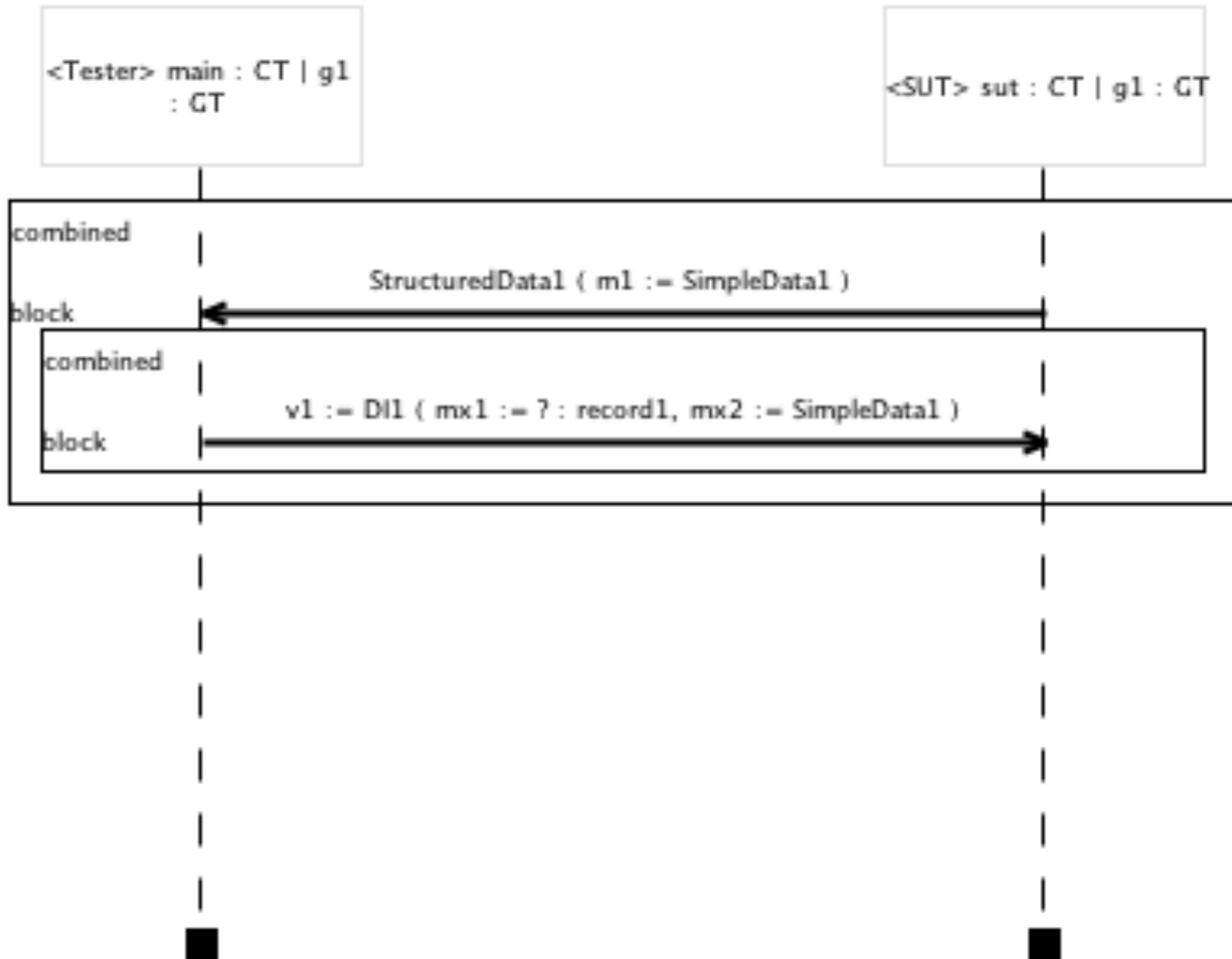


Interaction m1		Value
Semantic	Property	
Style	Interaction m1	
	Is Trigger	false
	Name	m1
	Source Gate	Gate Reference sut.g1
	Test Objective	









# Task 1: Status

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- Most shapes mapped
  - still rough around the edges - borders, labels, overall look needs tuning
- Basic layout feasible for UCAAT
  - manual layout still needed (benefit of using Sirius)

# Task 2

# Task 2: Status

---

- Profile implementation
  - in progress: binding between lifelines and gate-references
  - still missing: time concepts
  - minor changes to ComponentInstanceBinding and GateReference
- Profile documentation
  - Annex C of Part 1, pending updates according to latest changes

# Task 2: Status

---

- Profile overview
  - Foundation - no stereotypes for most concepts, rely on UML Foundation
  - TestConfiguration - follow suggestions by MFW, use CompositeStructure
- Test Description
  - CombinedBehaviour -> UML::CombinedFragment
  - Interaction -> UML::Message
  - ActionReference -> UML::BehaviourExecutionSpecification
  - AtomicBehaviour -> UML::OccurrenceSpecification

# Task 2: Status

---

- Profile overview
  - Data - stereotypes for DataMapping, Function (handling return type)
  - DataUse - extend UML::Expression, UML::InstanceValue (DataInstance)
  - Time - follow suggestions from MFW, not implemented yet

# Task 2: Status

---

- Papyrus-Based Editor for the UML Profile for TDL
  - Basic semantic Element types for the creation of TDL concepts
  - Initial palette for the TestConfiguration Diagram in progress
  - Priority for UCAAT : Shape implementation

# Task 2: Status

---

- Profile application example
  - show the applicability of the profile
  - based on example from collaboration with Sherpa Engineering
  - demonstrating interest in TDL from Sherpa
    - test specification in hybrid system modelling tool (PhiSystem)
    - focus on benefits from DataUse
    - exceptional and periodic behaviour not yet in the example



# Task 2: Status

---

- Profile application example structure
  - Composite Diagram for the TestConfiguration representation
    - TestConfiguration, ComponentType, ComponentInstance, Variable, GateType, GateInstance
  - Class Diagram for the Data representation
    - DataType, DataInstance, Function, FormalParameter
- Sequence Diagram for the TestDescription representation
  - TestDescription, Assignment, Interaction, CompoundBehaviour, UnboundedLoopBehaviour, ConditionalBehaviour, VerdictAssignment, Target

# Task 3

# Task 3: Status

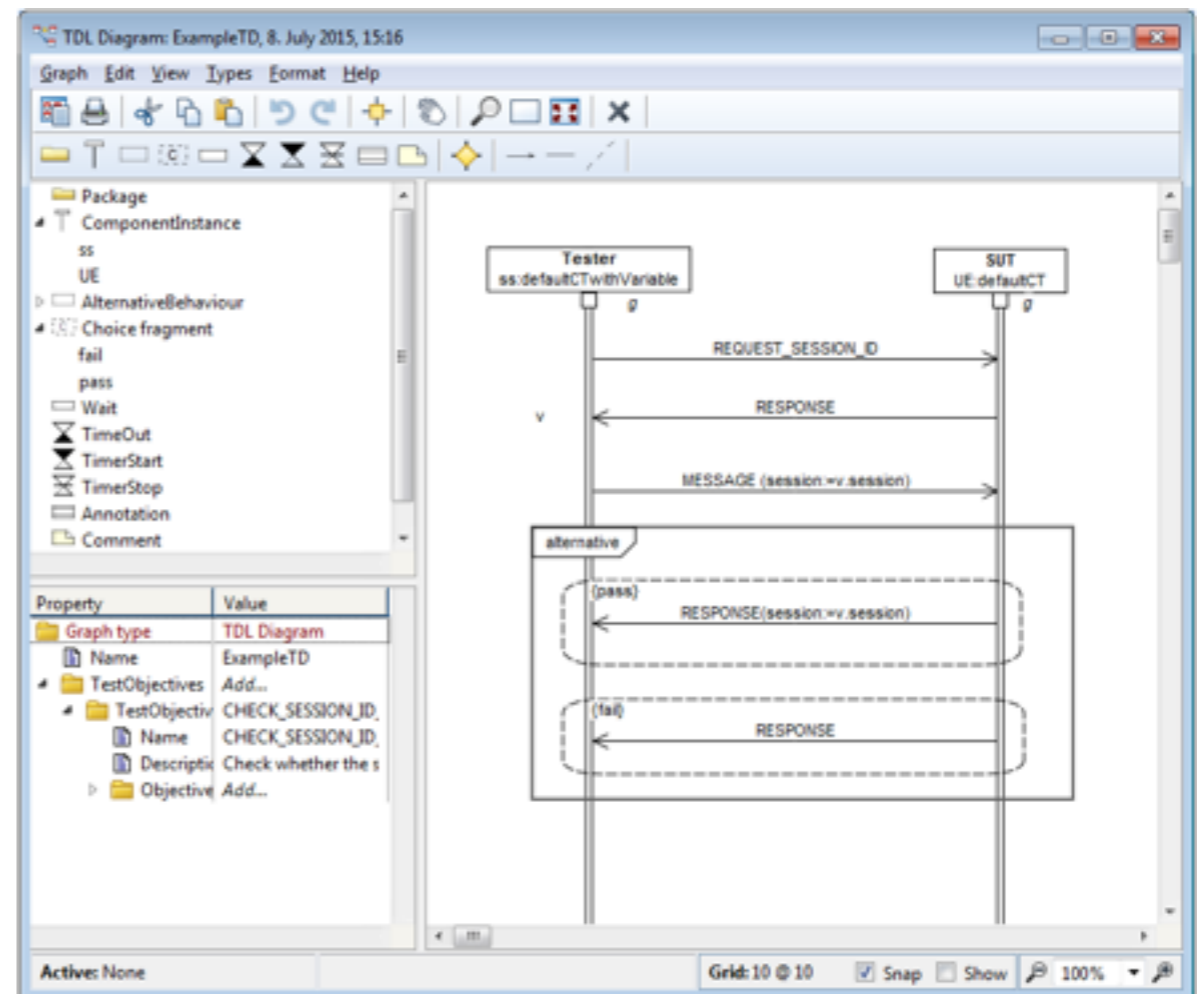
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<b>Clause</b>	<b># constraints</b>	<b># constraints done</b>
Foundation	8	8
Data	19	17
(Data definition)	7	7
(Data use)	12	10
Time	9	7
Test Configuration	6	6
Test Behaviour	35	26
(Test Description)	0	0
(Combined Behaviour)	14	9
(Atomic Behaviour)	21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

Further OCL constraints and validation pending

# Task 3: Status

- Feedback received from MetaCase
  - related to standard as a whole, not just Part 1
    - will be transferred to Mantis
- additional CR raised in Mantis
- work on editor under way



# Task 3: Status

---

- Raised several minor CRs
  - move and refine constraint for `StaticDataUse` to `DataInstanceUse`
  - add usage restriction to `AnyValueOrOmit` (similar to `Omit`)
  - change `dataType` multiplicity for `SpecialValueUse`

# Task 4

# Task 4: Status

---

- Additional discussion with CTI in September
  - final format for OneM2M to be determined
    - potential changes to syntax with different options
  - 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
- Some progress on new features for TO
  - multiple arguments, iterative and periodic behaviour, event patterns

# Task 4: Status

---

- **Medium** priority until UCAAT
- OneM2M, ITS, SmartM2M as potential short term users
  - examples and early prototype for OneM2M next meeting (July)
  - prototype for SmartM2M (September)
  - refined prototype for OneM2M / ITS (October)
- Potentially different notation (waiting for examples)
  - **Word export based on user-supplied templates**



# Task 4: Status

---

- Raised several minor CRs for GR
  - typo in DataElementMapping
  - support specifying optional data type in AnyValue
  - alternative syntax for “lifelines” - one lifeline per gate instance
- Raised several minor CRs for TO
  - fix errors with examples and BNF

# Any other business?

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- New ToR for 1st allocation for 2016?
  - deadline October 1 (MTS#66)