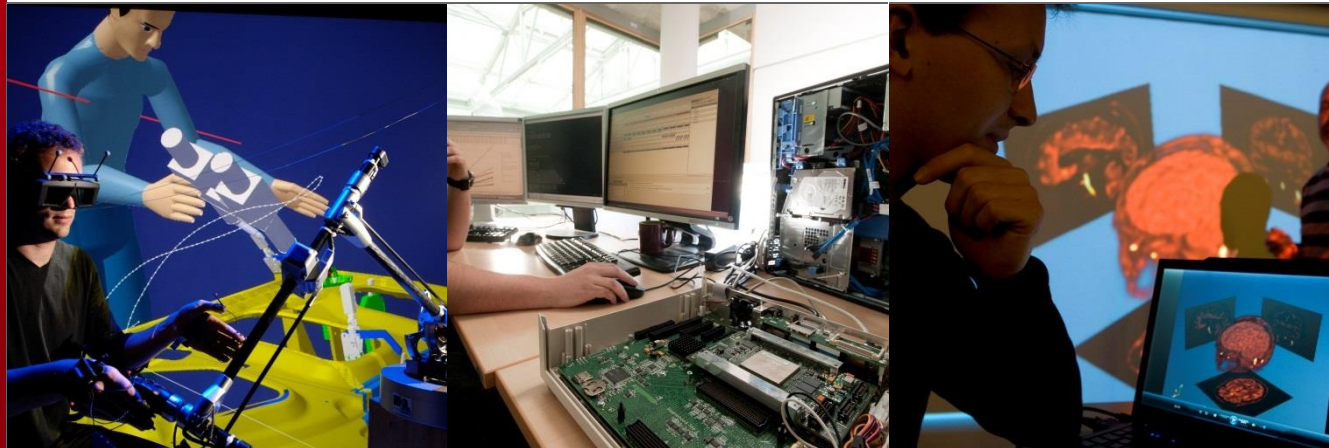


[PSSM] – WEBEX JANUARY 15TH

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list



Contributions from last meeting

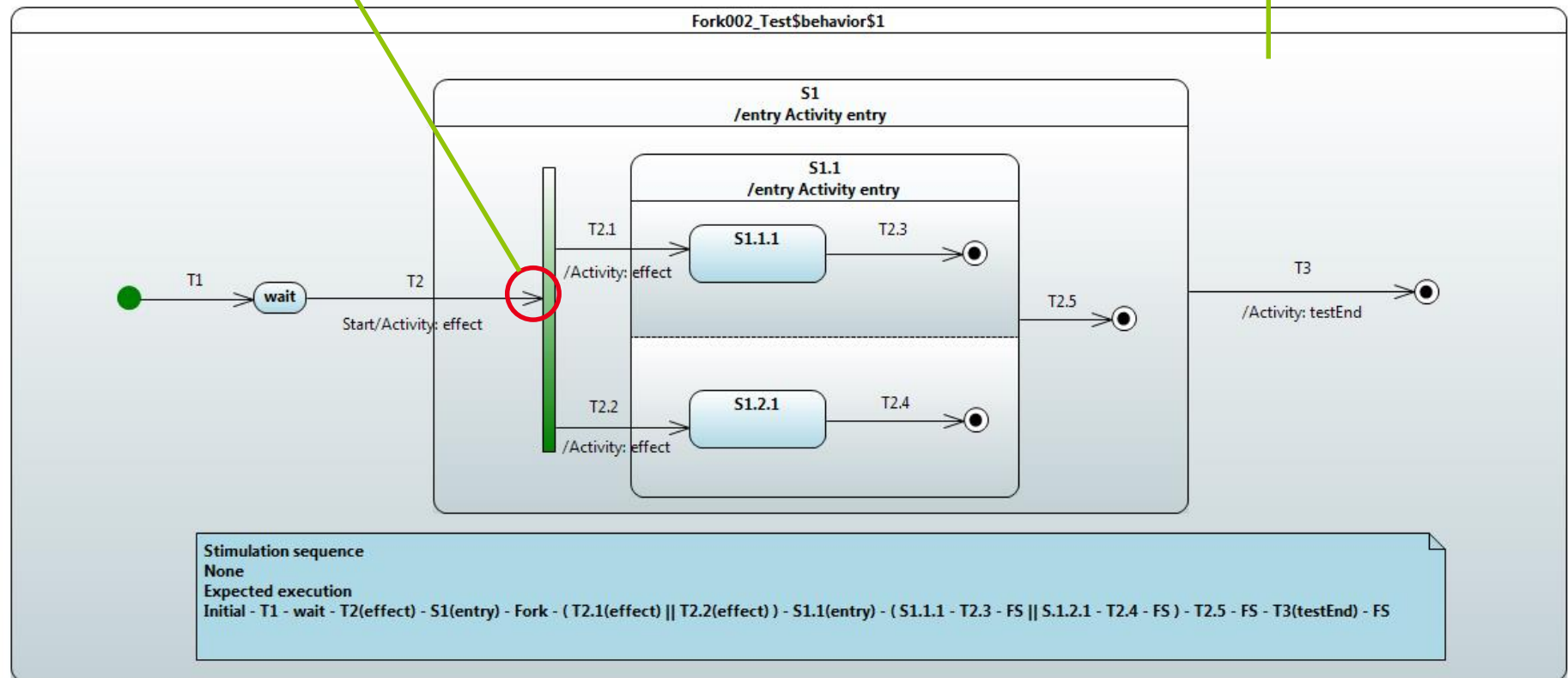
- New parts of the semantics
 - Fork (robustification)
 - Join
 - Terminate
- New tests
 - Join
 - Terminate
 - Fork
- Ongoing
 - Refactoring on transition semantics implementation

Questions

- Local transitions

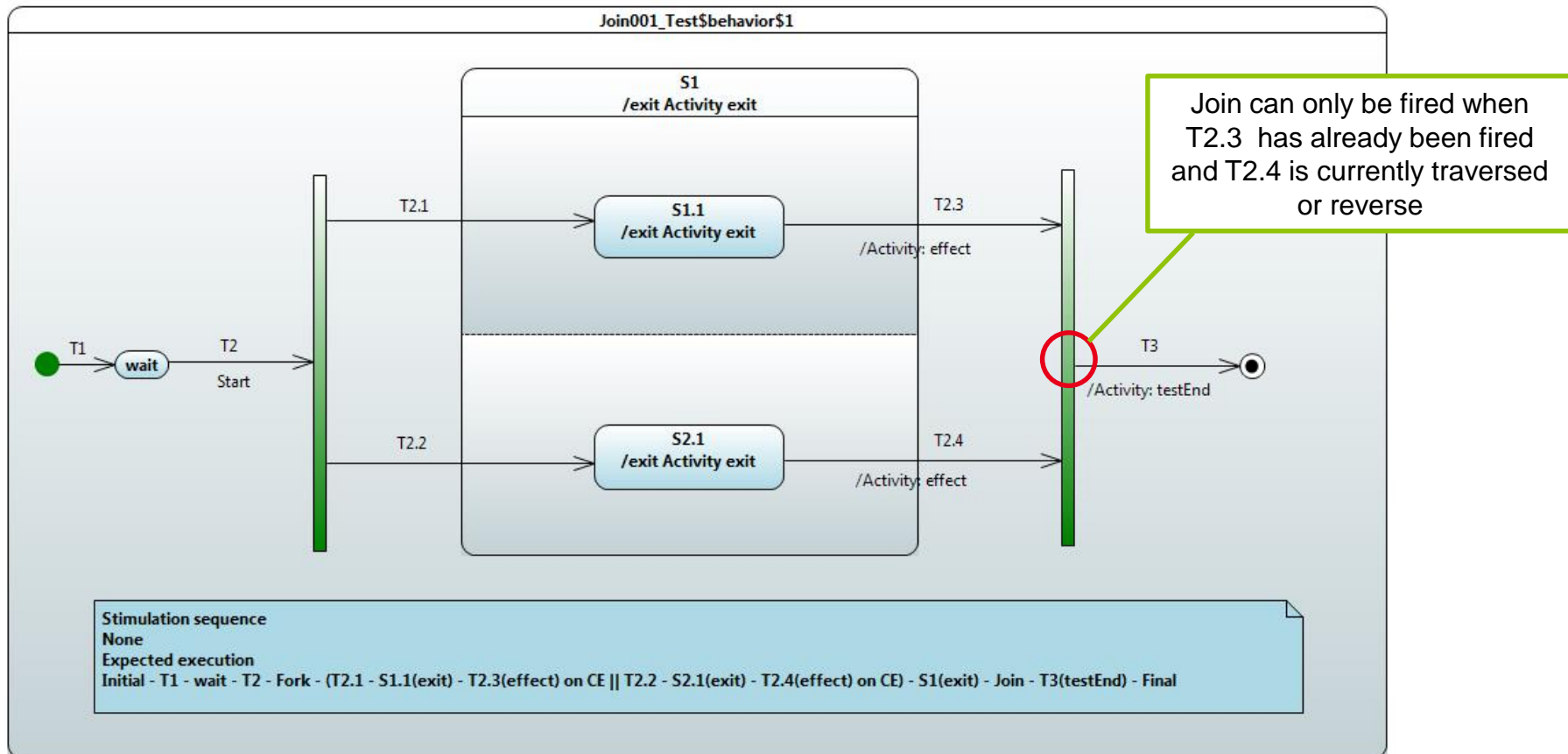
When the Fork is reached, first the state S1 is entered

Make sure the Fork behaves correctly when placed in a nested context



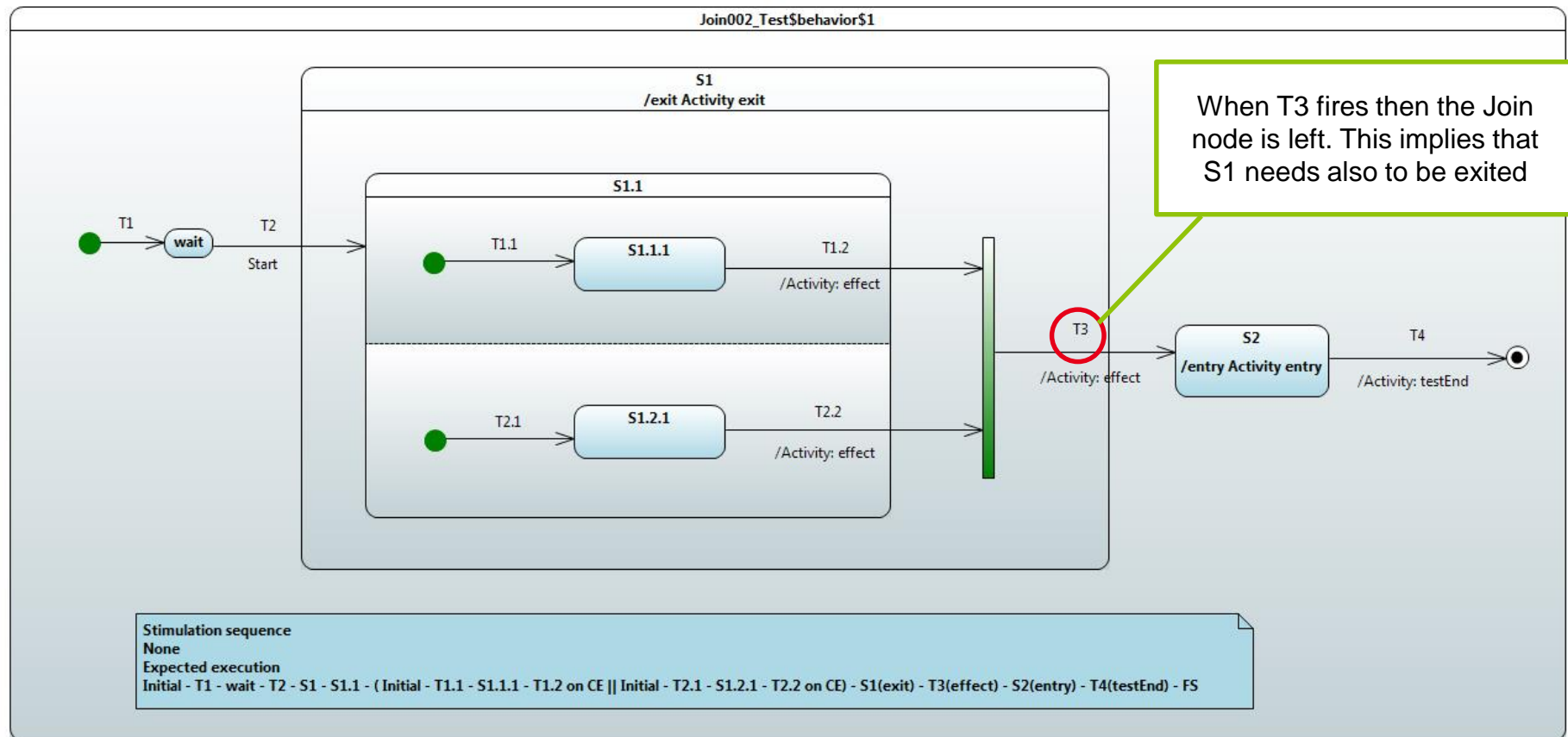
- Notes

- The first transition that enters explicitly one region of S1.1 makes S1.1 being entered (i.e., S1.1 entry is executed)



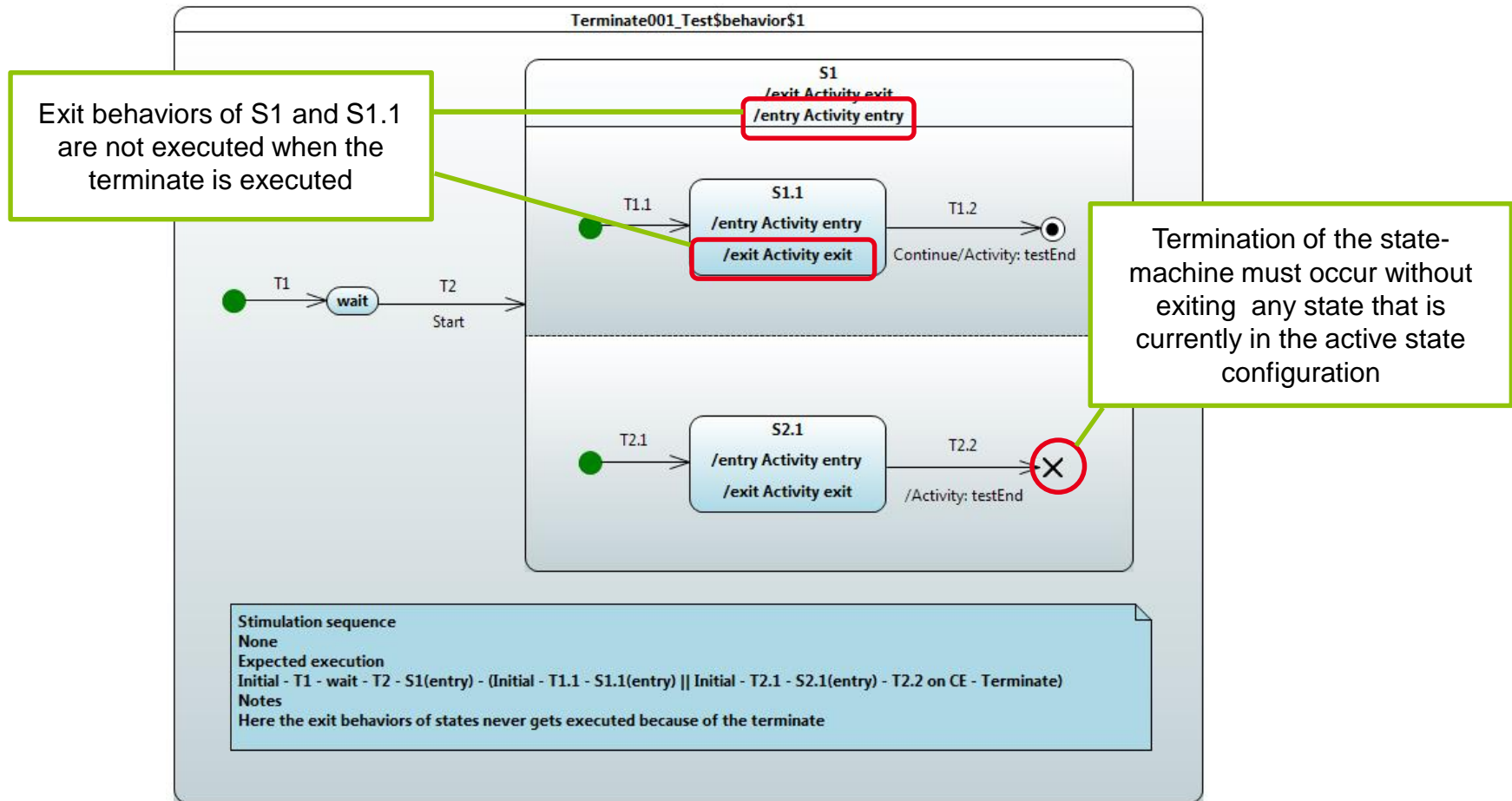
- Notes

- Completion event of S1.1 gets dispatched => T2.3 fires
- Completion event of S2.1 gets dispatched => T2.4 fires
- Only when the second completion event gets dispatched then we are in a situation where the Join node can be entered



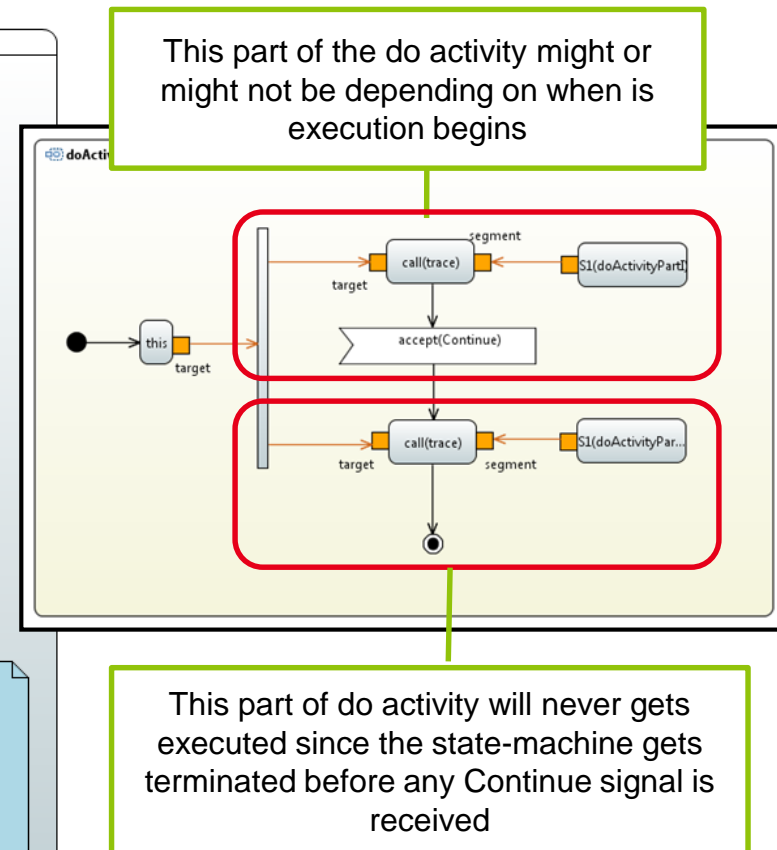
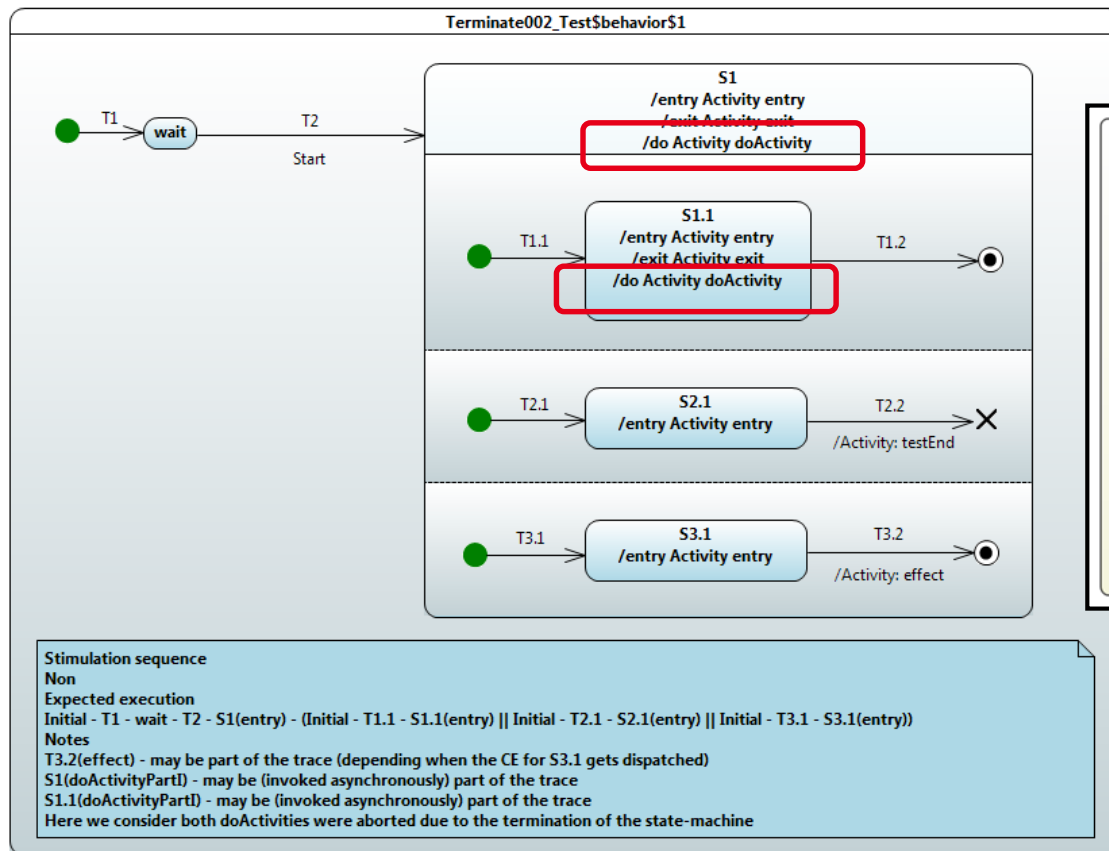
- Objective

- Make sure that in case where the Join node is left while its is used in a nested context that exit rule is correctly applied.



– Semantic model

- “StateMachineExecution”, “RegionActivation” and any kind of vertex have a “terminate” operation.
- “TerminatePseudostateActivation” calls “terminate” and “destroy” on the state-machine execution



- Objective

- Make sure that when a state-machine gets terminated then ongoing do activities are aborted.
- This typically occurs when the state that initiated this do activity gets itself terminated.

A. Information from the specification UML 2.5

– Constraints

- A local transition must have a composite state or an entry point as its source
- A local transition can only exist within a composite state
- For local transitions the target vertex must be different from its source vertex

– Rules

- “Implies that the Transition, if triggered, **will not exit the composite** (source) State, but it **will exit and re-enter any state within the composite State that is in the current state configuration.**”
- “local is the opposite of external, meaning that the **Transition does not exit its containing State** (and, hence, the exit Behavior of the containing State will not be executed).”
- “In case of local Transitions, **the exit Behaviors of the source State and the entry Behaviors of the target State will be executed, but not those of the containing State**”