

# Protokoll SHK-Treffen 19.01.2011

- Folgende Punkte bzgl. des Meta-Modells für Realtime Statecharts wurden besprochen. Es folgt die Text-Datei, die als Diskussionsgrundlage diente.

DONE:

- \* Deleted 'UMLRealtimeTransition.synchronizationType' since this information is included in the assocs 'sendSync' and 'receiveSync'.
- \* Deleted 'UMLRealtimeTransition.guard' since it was of type 'String' and realised it with a new assoc to 'Expression'.

CONCRETE QUESTIONS CONCERNING THE MM:

- \* 'UMLDeadlineAtom' not required anymore?? ##deleted
- \* Does 'UMLClockResetAtom' require an 'id'?? ##deleted
- \* Still don't know what the assocs 'interfacedStates' and 'interfaceState' mean??
- \* Why does the assoc from 'UMLRealtimeTransition' to 'UMLInvariantAtom' have to be qualified?? ##TODO: delete from states and transitions
- \* Why does 'UMLInvariantAtom' inherit from 'Deadline'?? ## is quatsch
- \* What is 'UMLInterfaceStatechart'?? ##
- \* 'UMLInvariantAtom' inherits from 'Deadline' and hence hasn't any relation to 'UMLClock'. Seems strange for time invariants. ## is quatsch
- \* 'UMLInvariantAtom' only inherits from 'Deadline' to introduce the assoc to 'UMLRealtimeComplexState'. Is this required??
- ## Evtl. guards und invarianten über sdm package umsetzen.
- \* What are 'periodUpperBound' and 'periodLowerBound' in 'UMLRealtimeAction' good for? Does not only a do event have a period? Better use assoc to 'Deadline'?
- \* 'UMLRealtimeArgument' still required? Don't think so since all expressions and invocations are now realised with the sdm mm.
- \* 'UMLTimeGuard' not required anymore?? It only inherits from 'AbsoluteDeadline' but does not add anything.
- \* Does the assoc from 'UMLRealtimeTransition' to 'UMLTimeGuard' have to be qualified? ##NO!

GENERAL QUESTIONS:

- \* Wondered if clock resets can be realised only with assocs 'resets' to 'UMLClock'?? 'UMLClockResetAtom' has no special function and could be deleted.
- \* Why not realise time guards and time invariants as constraints like in the udbm package??
- \* Isn't an 'AbsoluteDeadline' what is known as guard (e.g.  $x \leq 2$ ) of a transition??

TODO:

Referenzen reparieren.

- Aufgabe Julian: Besprochene Änderungen am Meta-Modell anpassen.
- Aufgabe Ingo: Versuchen eine Figur für Komponenten zu bauen, die es erlaubt Ports auf den Rand zu setzen.