

Eclipse APP4MC 1.2



NEW AND NOTEWORTHY

APP4MC 1.2 (JUL 2021)

General description of platform changes

Model changes

- ▶ Activity graph
 - added **While Loop**
 - introduced **Non-interruptible Groups**
- ▶ Added nested elements (map) in custom properties

Product

- ▶ Improved Amalthea Model Editor
- ▶ Improved transformation BTF -> ATDB
- ▶ New model transformations (via "Install New Software...")
- ▶ Several bug fixes

UI

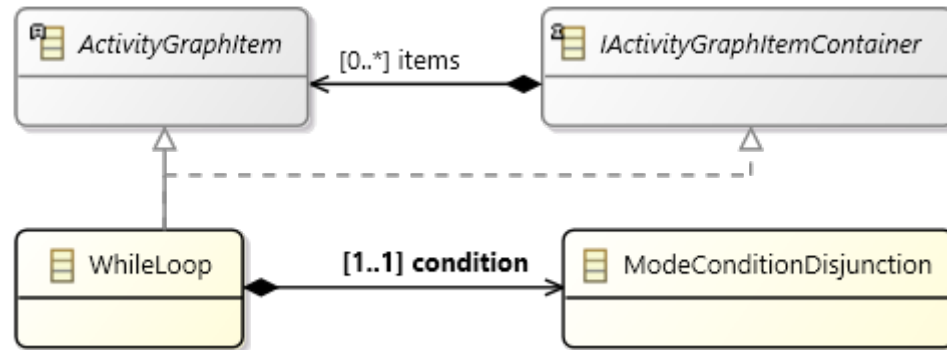
- ▶ New UI to start model transformations

APP4MC 1.2

While Loop

While Loop

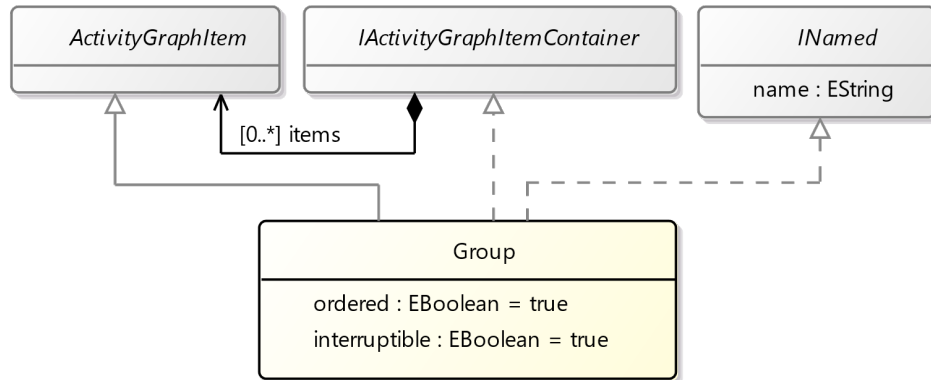
A *WhileLoop* enables to represent repetitions of activity graph items within an activity graph. These repeated items are contained in *items* (from *ActivityGraphItemContainer*). They will be repeated as long as the *condition* is evaluated to be **true**. In order to enter the while loop at all, the condition must initially be **true**.



APP4MC 1.2

Non-interruptible Groups

Non-interruptible Groups



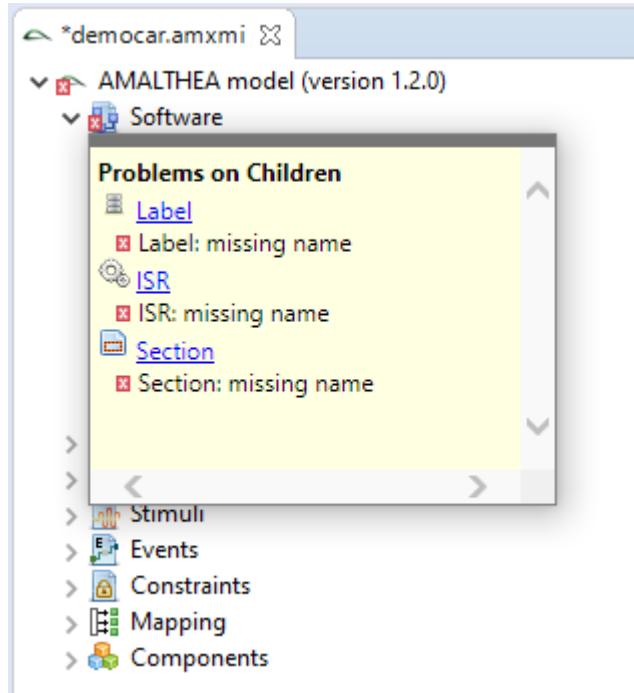
Attribute	Description
<i>ordered</i>	<i>boolean</i> attribute that indicates if the execution order of the contained elements is fixed (default) or random.
<i>interruptible</i>	<i>boolean</i> attribute that specifies whether the group can be interrupted (default). If set to false the group cannot be interrupted (neither by interrupts nor by other higher priority tasks).

Some hints regarding non-interruptible groups:

- they usually should be very short, so the system remains responsive
- they may not have nested groups among their contained items (this would result in a validation error)
- they should not be used for resource access synchronization across cores – there are Semaphores for that purpose
- they directly correspond to the sections between *SuspendAllInterrupts* and *ResumeAllInterrupts* calls in AUTOSAR

AMALTHEA Model Editor

AMALTHEA Model Editor

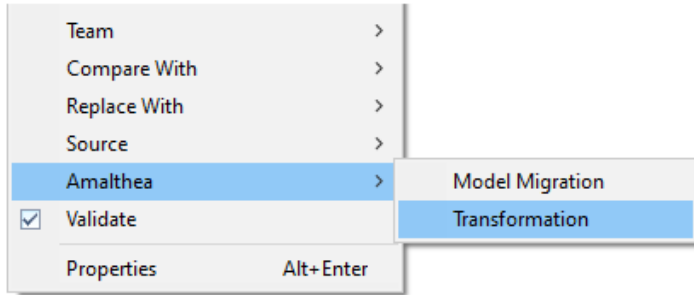


Improvements

- live validation
- improved check if changes should be saved
- several bug fixes

UI to start model transformations

UI to start model transformations



Generic UI

installed transformation services
determine settings and transformations

