Subject: Branches and connections - a neverending story Posted by Volker Knollmann on Fri, 11 Jun 2004 09:05:36 GMT View Forum Message <> Reply to Message

Hello,

I just was preparing some RailML-example-code and had a close look at the current schema (0.94\_18) when I came across some difficulties related to switches, branches and connection. The problems refer to Matthias' posting from April 13.

Like Matthias, I don't understand the neccesarity for <singleCrossOver>. In fact, it is a switch, so why don't we use the <switch>-element? Additionally I found that using the current syntax, we always have to include two <br/>branchConnection>-elements with the same contents (one in each <track> of the branch). This creates unneccessary redundancy.

My suggestion to reduce the complexity of branches and connections is:

- \* skip <singleCrossOver>
- \* use <switch> for every kind of branch
- \* rename <connections> to <switches> and make it an ordinary container element
- \* make <branchConnection> a child of <tracks> to include it only once per branch. Introduce an appropriate container element.

I think, the last point makes sense. Since a branch connects TWO tracks, it should NOT be a child of a track. It should be a sibling of <track>.

Here's a very simple example (ASCII-art):

I skipped many attributes which are required "in real life"; my intention was to show the idea and the structure.

Using the attribute-names "fromElemID" and "toElemID", the branch has an implicit direction (like a vector), so the usage of the "dir"-attribute would be possible.

So what do think? I'm looking forward to your suggestions and comments!

Best regards from Braunschweig, Volker Knollmann