Subject: Re: Missing attributes in the element <switch> Posted by Martin Lehmann on Sat, 09 Jan 2010 13:19:30 GMT View Forum Message <> Reply to Message

The startingt point of this discussion:

- >> The element <switch> should have the attributes: "stationOcpRef" and
- >> "signalBoxOcpRef". The element <signal> supports these two attributes
- >> already. So why does not the element <switch>, too?

Dr. Volker Knollmann aggrees with that point:

> I guess there is definitely an inconsistency between signals and switches.

The simplest solution would be to add the attributes "stationOcpRef" and "signalBoxOcpRef" to the element <switch>.

But Dr. Volker Knollmann came up with some concerns:

- > * There is a possibility to map tracks to OCPs. This is done via
- > <trackRef> in the OCP's <propEquip>, IIRC. If implicitly all of the
- > track's elements are controlled by the linked OCP then we may NOT
- > ADD the attributes to <switch> but we must REMOVE them from <signal>
- > as they are redundant to the linking via <trackRef>.

In my opinion, there is a problem in situations similar to the following example.

Example1:

area OCP1 | area OCP2 o- (entry signal to OCP1) -----track1-----track2------(entry signal to OCP2) -o |

The entry signal to OCP2 is controlled by the OCP2. In railML the track element <signal>, which represents the entry signal to OCP2, is located in the track1. The Problem is the track1 is linked with the OCP1.

Next of Dr. Volker Knollmann concerns:

- > * In case we accept the redundancy: are there any other (controlled)
- > elements that need a tuple of [station, signalBox] to be fully
- > specified? If yes, we should find a common data structure for this
- > and find a clean way to implement it. Adding those attributes one by
- > one to each element sequentially is NOT a good solution...;-)

Basicly I do agree. However, it should be considered that some users might want to reflect only station affiliations but no interlocking affiliations.

- > * What is planned for the Interlocking Sub-Schema? Isn't that a better
- > place to store the information? I currently don't know...

I do not know what is planned for the Interlocking Sub-Schema, too. Of course it should be possible to reference the signals and switches from the interlocking elements. In terms of the regular use of cross-referencing in RailML the points and signals should link their affiliate signalboxes and train station, too.

As a conclusion in my opinion the best solution is that the elements <switch> and <signal> should have the attributes "stationOcpRef" and "signalBoxOcpRef".

Best regards, Martin Lehmann

Page 2 of 2 ---- Generated from Forum