Subject: Re: InfraAttributes and InfraAttrGroups Posted by on Thu, 01 Sep 2016 06:41:50 GMT View Forum Message <> Reply to Message

Dear Christoph,

there is currently no other option than to use the "any other" extension point of an <ocp> to add an <infraAttributes> to an <ocp>.

Since an <ocp> has plenty of attributes and properties so far, I guess there was no need to do so.

But, it is normally not in the sense of railML to extend it with a structure coming from railML itself. In other words, the "any other" extension point should, in my understanding, only be used with your own sub-structures. If you really need an extension with a railML-own sub-structure (as <infraAttributes>) there should be an "official" way to do so.

So my question would be now: Which information exactly do you want to add to an <ocp>? Since there are these plenty of properties of <ocp>s I wonder why there is not already a solution for it.

To describe the "owner" of an <ocp>, what your example suggests:

- Please be aware that <ocp> is only a virtual place for a cross-reference from lines and tracks to the timetable (and vice-versa). Therefore, the typical place for an <ocp> is the middle of a station or the middle of a platform of a station alongside a track. There is no <ocp> in reality. That's why there is no "direct" owner of an ocp so far.

- For the owner of the tracks of an ocp, use <owner infrastructureManagerRef=.../> of the track.

- For the owner of the platforms of an ocp, there should be a possibility to use an /infrastructureManagerRef/ attribute at a <platformEdge>. I do not know whether there is one right now, but if not it should be better to solve the problem in this way.

- For the owner of the overhead wires of an ocp... And so on, there should be /infrastructureManagerRefs/ at each physical infrastructure element.

It is surely not acceptable to use "dummy tracks".

I would suggest you write here by which attributes you want to extend an <ocp>. This may help us to understand the character and generality of the extension. May be Christian can check whether there is already a

solution for them.

With best regards, Dirk Bräuer.

Am 16.08.2016 um 15:24 schrieb Christoph Jobmann:

- > Greetings,
- >
- > I recently started looking into the infrastructure
- > subschema.

>

- > As far as I can tell the element InfraAttrGroup and thereby
- > the underlying InfraAttributes elements can only be
- > references by track elements. That makes sense considering
- > that most infraAttributes children are strongly connected to

> tracks.

>

- > Are there similar elements that can be used for the elements
- > of type ocp? If not are there plans to add them?
- > For now I see three ways to add information I would rather
- > wrap up in some kind of attribute Containers:

>

- > Use the regular extension Point and add an element for
- > referencing infraAttributes Element Use the "other"
- > extension point and add references as user-defined
- > attributes or elements. Add a trackref pointing to a dummy
- > track that contains an appropriate attributeGroupRefs
- > element

>

- > I prefer the first option, even though it has the downside
- > that it enables connecting an ocp with attributes that only
- > make sense for tracks.
- > The second option has the downside that the
- > generalInfraAttribute Elements can not be used anymore.
- > The third option is not really an option from my point of
- > view but it is the only way I see without adding new
- > user-defined elements or attributes.

>

- > I made up an example where the options are demonstrated and
- > hope that they help understanding my point. Extensions are
- > marked by a NEW: prefix.
- >
- > <railml>
- > <metadata>
- > <infrastructureManager id="im1" name="DB Netz AG"/>
- > </metadata>

- > <infrastructure id="i">
- > <infraAttrGroups>
- > <infraAttributes id="ia1">
- > <owner infrastructureManagerRef="im1"/>
- > </infraAttributes>
- > <infraAttributes id="ia2">
- > <generalInfraAttributes>
- > <generalInfraAttribute>
- > <attributes>
- > <attribute name="myNewAttribute" value="42"/>
- >
- > </attributes>
- > </generalInfraAttribute>
- > </generalInfraAttributes>
- > </infraAttributes>
- > </infraAttrGroups>
- > <tracks>
- > <track id="dummy1">
- > <infraAttrGroupRefs>
- > <infraAttrGroupRef ref="ia1"/>
- > <infraAttrGroupRef ref="ia2"/>
- > </infraAttrGroupRefs>
- > </track></track>
- > </tracks>
- > <operationControlPoints>
- > <ocp id="ocp1">
- > <!-- Option 1 -->
- > <NEW:infraAttrGroupRefs>
- > <NEW:infraAttrGroupRef ref="ia1"/>
- > <NEW:infraAttrGroupRef ref="ia2"/>
- > </NEW:infraAttrGroupRefs>
- > </ocp>
- > <ocp id="ocp2" NEW:OwnerRef="im1">
- > <!-- Option 2 -->
- > <NEW:myNewAttribute value="42"/>
- > </ocp>
- > <ocp id="ocp3">
- > <!-- Option 3 -->
- > <propEquipment>
- > <trackRef ref="dummy1">
- > </propEquipment>
- > </ocp>
- > </operationControlPoints>
- > </infrastructure>
- > </railml>
- >
- > Am I missing something? Which way is considered as best, are
- > there other ways?

- > Kind regards> Christoph Jobmann

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