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Subject: RailML 2 Infrastructure

Posted by \_\_\_\_\_ on Tue, 15 Dec 2009 16:59:58 GMT

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Hi all,

I'm a freelancer currently working for siemens and I'm trying to wrap my head around the infrastructure schema of the RailML 2 specification. Especially the rail:infraAttrGroups definition doesn't make sense to me - I would guess this should be a container for one or more infraAttrGroup elements that would have IDs and contain InfraAttributes. (If not, please enlighten me)

The other thing that bothers me is the definition of balisegroups. Each balise may have a groupID and ndx but there is also baliseGroup element which could reference up to 8 balises.

Now that the line element is gone - or moved to trackGroups - I'm in desperate need of a place to store information that is valid for more than one track (Like e.g. the definition of signal-types and their aspects). I can abuse metadata or maybe better a trackGroup but if there is a better solution i would be happy to know.

cheers

Simon Kröger

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Subject: Re: RailML 2 Infrastructure

Posted by [Alfonso Gonzalez](#) on Mon, 01 Mar 2010 00:45:00 GMT

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Hi Simon

I am also interested in understanding the ifrastructure in RailML 2.0.

If you are interested in sharing experiences let me know.

I might be also interested in developing a simple tool for visualizing a rail network described in RailML

Regards.

On 15/12/2009 17:59, Simon Kröger wrote:

> Hi all,

>

> I'm a freelancer currently working for siemens and I'm trying to wrap my

> head around the infrastructure schema of the RailML 2 specification.

> Especially the rail:infraAttrGroups definition doesn't make sense to me  
> - I would guess this should be a container for one or more  
> infraAttrGroup elements that would have IDs and contain InfraAttributes.  
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> than one track (Like e.g. the definition of signal-types and their  
> aspects). I can abuse metadata or maybe better a trackGroup but if there  
> is a better solution i would be happy to know.  
>  
> cheers  
>  
> Simon Kröger

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Subject: Re: RailML 2 Infrastructure

Posted by [Susanne Wunsch railML](#) on Fri, 11 Feb 2011 08:23:00 GMT

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Hello Simon and Alfonso,

Sorry for the very late follow up. I hoped that the infrastructure coordinator would reply, but he apparently was really very busy with his paid job. :-(

Alfonso Gonzalez <alfaeco@gmail.com> writes:

> On 15/12/2009 17:59, Simon Kröger wrote:

>> Especially the rail:infraAttrGroups definition doesn't make sense to me  
>> - I would guess this should be a container for one or more  
>> infraAttrGroup elements that would have IDs and contain InfraAttributes.  
>> (If not, please enlighten me)

Sorry, that's broken. We'll fix it with the next upcoming release (railML 2.1 in March 2011).

>> The other thing that bothers me is the definition of balisegroups. Each  
>> balise may have a groupID and ndx but there is also baliseGroup element  
>> which could reference up to 8 balises.

Ok, that's the same issue like Alfonso reported these days. We can reorganize the attributes only for the next major release (railML 3.0), but there is currently no schedule for this.

But nevertheless we can develop the better structure now and fix it in an Trac ticket for not losing the idea.

I thought of something like the following:

```
<balises>
  <!-- for single balises (not linked) -->
  <balise id="b1" pos="100.0" dir="up" countryID="357"
    staticTelegram="..."/>
  <balise id="b2" pos="400.0" dir="up" countryID="357"
    staticTelegram="..."/>
  <!-- for balise groups (linked) -->
  <baliseGroup groupID="01">
    <balise id="b3" pos="700.0" dir="up" countryID="357" ndx="1"
      staticTelegram="..."/>
    <balise id="b4" pos="1000.0" dir="up" countryID="357" ndx="2"
      staticTelegram="..."/>
    <linkingNominal reaction="trainTrip" locationAccuracy="47"/>
    <linkingReverse reaction="applyServiceBrake" locationAccuracy="36"/>
  </baliseGroup>
</balises>
```

Please comment with your professional background and expert knowlegde.

(Are there unlinked balise groups? Maybe we have to enable linking\* also for single balises, it is not bound to a balise group, I think.)

>> Now that the line element is gone - or moved to trackGroups - I'm in  
>> desperate need of a place to store information that is valid for more  
>> than one track (Like e.g. the definition of signal-types and their  
>> aspects). I can abuse metadata or maybe better a trackGroup but if there  
>> is a better solution i would be happy to know.

I think, the 'trackGroup' is a good place to bind information to more than one track. It integrates an "any" element which can be used for your needs.

Hope it helped a bit and to further develop this branch of railML infrastructure.

read you ...  
Susanne

Susanne Wunsch  
Schema Coordinator: railML.common

Subject: Re: RailML 2 Infrastructure

Posted by [alfaeco](#) on Thu, 17 Feb 2011 11:27:20 GMT

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I would change the balises and balise groups as follows

Instead of:

```
<balises>
  <balise id="BG01_0" countryID="357" groupID="01"
pos="119.700" ndx="0" dir="up" linkingAccuracy="5"
linkReactionDescending="noReaction"
description="E2 Infill balise group"/>
  <balise id="BG01_1" countryID="357" groupID="01"
pos="119.703" ndx="1" dir="up" linkingAccuracy="5"
linkReactionAscending="noReaction"/>
  <balise id="BG03_0" countryID="357" groupID="01"
pos="119.985" ndx="0" dir="up" linkingAccuracy="5"
linkReactionDescending="noReaction"
description="E2 signal balise group"/>
  <balise id="BG03_1" countryID="357" groupID="01"
pos="119.988" ndx="1" dir="up" linkingAccuracy="5"
linkReactionAscending="noReaction"/>
  <balise id="BG03_2" countryID="357" groupID="01"
pos="119.991" ndx="2" dir="up" linkingAccuracy="5"
linkReactionAscending="noReaction"/>
  <baliseGroup>
    <baliseRef ref="BG01_0"/>
    <baliseRef ref="BG01_1"/>
  </baliseGroup>
  <baliseGroup>
    <baliseRef ref="BG03_0"/>
    <baliseRef ref="BG03_1"/>
    <baliseRef ref="BG03_2"/>
  </baliseGroup>
</balises>
</ocsElements>
```

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----- posted via PHP Headliner -----

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Subject: Re: RailML 2 Infrastructure

Posted by [Susanne Wunsch railML](#) on Mon, 21 Feb 2011 09:09:22 GMT

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Hello Alfonso,

Unfortunately your suggestion for changing the balise structure didn't arrive in the posting, maybe your editor cut it up. :-)

Please post your ideas again, we are very interested in your feedback.

Kind regards...  
Susanne

alfaeco@gmail.com (Alfonso Esteban Gonzalez Sencion) writes:

```
> I would change the balises and balise groups as follows
>
> Instead of:
>
>   <balises>
>     <balise id="BG01_0" countryID="357" groupID="01"
> pos="119.700" ndx="0" dir="up" linkingAccuracy="5"
> linkReactionDescending="noReaction"
> description="E2 Infill balise group"/>
>     <balise id="BG01_1" countryID="357" groupID="01"
> pos="119.703" ndx="1" dir="up" linkingAccuracy="5"
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> pos="119.985" ndx="0" dir="up" linkingAccuracy="5"
> linkReactionDescending="noReaction"
> description="E2 signal balise group"/>
>     <balise id="BG03_1" countryID="357" groupID="01"
> pos="119.988" ndx="1" dir="up" linkingAccuracy="5"
> linkReactionAscending="noReaction"/>
>     <balise id="BG03_2" countryID="357" groupID="01"
> pos="119.991" ndx="2" dir="up" linkingAccuracy="5"
> linkReactionAscending="noReaction"/>
>     <baliseGroup>
>       <baliseRef ref="BG01_0"/>
>       <baliseRef ref="BG01_1"/>
>     </baliseGroup>
>     <baliseGroup>
>       <baliseRef ref="BG03_0"/>
>       <baliseRef ref="BG03_1"/>
>       <baliseRef ref="BG03_2"/>
>     </baliseGroup>
>   </balises>
> </ocsElements>
>
> |
```

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Susanne Wunsch  
Schema Coordinator: railML.common

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