
Subject: 1.1R2 - sectionTT element

Posted by on Mon, 29 Dec 2008 19:23:51 GMT

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In version 1.1 R2 there are sectionTT elements like this:

```
<sectionTT sectionRefId="85ZVIA-85ZWIP" lineRefId="70005" trackInfo="302"
minRunTime="PT0M36S" distance="0.907"/>
```

In my opinion sectionRefId attribute should be changed so that there are different attributes for the ID that starts and the ID that ends the section like this:

```
<sectionTT sectionStartID="85ZVIA" sectionEndID="85ZWIP" lineRefId="70005"
trackInfo="302" minRunTime="PT0M36S" distance="0.907"/>
```

Here are some reasons:

- There is no documentation how those two Id's are combined in one attribute
- There is no reason to combine two things in one attribute
- What about if the ID contains "-" character?

-Teemu

Subject: Re: 1.1R2 - sectionTT element

Posted by [Joachim Rubröder railML](#) on Mon, 05 Jan 2009 10:01:14 GMT

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Dear Teemu,

the sectionTT element is meant for information concerning the section between two ocpTTs of a train. The two attributes sectionRefId and lineRefId are referencing section and line elements which are part of the infrastructure. Unfortunately there is no such section element in the infrastructure yet but I think there should be one. So I invented the usage sectionRefId="85ZVIA-85ZWIP" with a combination of two ocp elements. But it is still a RefId so it depends on the definition of a section.

With the current structure of the infrastructure I agree that a combination sectionStartID/sectionEndID would fit better. But I hope that there will be soon a section concept in the infrastructure.

What do you think as best connection between timetable and infrastructure by references? How would you describe a whole network with high-level connections from station to station in the terms of railML-infrastructure?

Kind regards,

Subject: Re: 1.1R2 - sectionTT element

Posted by on Mon, 05 Jan 2009 13:33:26 GMT

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"Joachim Rubröder" <coord@timetable.railml.org> kirjoitti viestissä
news:gjslp9\$oo9\$1@sifa.ivi.fhg.de...

> Dear Teemu,

>

> the sectionTT element is meant for information concerning the section
> between two ocpTTs of a train. The two attributes sectionRefId and
> lineRefId are referencing section and line elements which are part of the
> infrastructure. Unfortunately there is no such section element in the
> infrastructure yet but I think there should be one. So I invented the
> usage sectionRefId="85ZVIA-85ZWIP" with a combination of two ocp elements.
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> combination sectionStartID/sectionEndID would fit better. But I hope that
> there will be soon a section concept in the infrastructure.

>

> What do you think as best connection between timetable and infrastructure
> by references? How would you describe a whole network with high-level
> connections from station to station in the terms of railML-infrastructure?

I understand that sectionRefId is an ID but I was just thinking how to parse
a RaiML file containing timetable with current structure.

As I said, there is no documentation how that ID is generated. Can I assume
that it is always two ocpRefIds combined with "-" character? If it is so
then it is easy to get for example trackInfo between two ocpTTs and there is
no problem.

But then the other part. What if I want to find train's departure and
arrival times in particular section defined by sectionRefId. I can split
sectionRefId attribute and find those two ocpTT having splitted parts of
sectionRefId as their ocpRefId if and only if sectionRefId contains only one
"-" character.

Let's assume that I have two stations: "A-1" and "A-2". Now I have two
ocpTTs with attributes ocpRefId "A-1" and "A-2". Again, this is not a
problem but then my sectionTT would have sectionRefId attribute "A-1-A-2".
Now there are three options how I can split that back: "A and 1-A-2", "A-1
and A-2" and "A-1-A and 2". How can I know which is the correct form? This
is the reason why I don't like this structure.

Maybe there should be sectionRefId that references to that section and also startID and endID that references to ocpTT's ocpRefId attribute?

I hope you understood my point and the reason why I'm worried about it.

-Teemu

Subject: Re: 1.1R2 - sectionTT element

Posted by [Joachim Rubröder railML](#) on Mon, 05 Jan 2009 15:57:22 GMT

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Hi,
sectionRefID is an ID and you should never parse an ID for included information!

For your two stations "A-1" and "A-2", you have to take your two ocpTTs with ocpRefId "A-1" and "A-2" for localisation. Now you have to search your infrastructure for any connections between A-1 and A-2.

This connection from A-1 to A-2 (if there is any) might be part of a line "70005" and a section "XY" in a line/section model used by a certain program. So an export could add helpful references like sectionRefId="XY" lineRefId="70005". But there is no rule how to define a sectionID. I just invented one possible usage of a sectionID="85ZVIA-85ZWIP" for the example.

So maybe its better not to use this attribute unless it has its counterpart inside an infrastructure schema. Or you are transferring timetable data between two programs with the same infrastructure model and a sectionID, well known by both.

Kind regards,
Joachim

Subject: Re: 1.1R2 - sectionTT element

Posted by on Mon, 05 Jan 2009 16:20:25 GMT

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"JoachimRubröder" <coord@timetable.railml.org> kirjoitti viestissä
news:gjtal2\$os3\$1@sifa.ivi.fhg.de...

> Hi,

> sectionRefID is an ID and you should never parse an ID for included
> information!

>

> For your two stations "A-1" and "A-2", you have to take your two ocpTTs

> with ocpRefId "A-1" and "A-2" for localisation. Now you have to search
> your infrastructure for any connections between A-1 and A-2.
>
> This connection from A-1 to A-2 (if there is any) might be part of a line
> "70005" and a section "XY" in a line/section model used by a certain
> program. So an export could add helpful references like sectionRefId="XY"
> lineRefId="70005". But there is no rule how to define a sectionID. I just
> invented one possible usage of a sectionID="85ZVIA-85ZWIP" for the
> example.
>
> So maybe its better not to use this attribute unless it has its
> counterpart inside an infrastructure schema. Or you are transferring
> timetable data between two programs with the same infrastructure model and
> a sectionID, well known by both.

OK. Let's suppose that I have a RailML file for example this
ICN_V1.1.R2.xml.

If I understood correctly there is no way to find out the distance between
ocpsTT "85ZUE" and "85ZVIA" or trackInfo because I don't know what is the
correct sectionIdRef between these ocpsTT?

In the version 1.1 this is very simple because section element is always
under entry element but now those elements are seperated and there is no
link between them because I'm not allowed to construct sectionRefId from
ocpRefIds.

-Teemu

Subject: Re: 1.1R2 - sectionTT element

Posted by [Joachim Rubröder railML](#) on Wed, 07 Jan 2009 13:57:59 GMT

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Oh, now I see the point.

The "sectionTT" in version 1.1.R2 ist still the same as the "section" in
1.1. The renaming with TT should just indicate, that it is not part of the
infrastructure. It is instead the usage of the infrastructure by a train
(this might be a bit sophisticated). In the timetable.xsd you can see,
that sectionTT is still a subelement of an "ocpTT" (= entry).

The problem is, that I made a wrong example by putting "sectionTT" on the
same level than "ocpTT". The file was valid because "sectionTT" was now
regarded an "any"-element and therefore still correct, so I missed this
error. I'm going to modify my example, will that solve your problem?

Kind regards,

Joachim

Subject: Re: 1.1R2 - sectionTT element

Posted by on Wed, 07 Jan 2009 16:44:42 GMT

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"JoachimRubröder" <coord@timetable.railml.org> kirjoitti viestissä
news:gk2cd7\$p90\$1@sifa.ivi.fhg.de...

> Oh, now I see the point.

> The problem is, that I made a wrong example by putting "sectionTT" on the
> same level than "ocpTT". The file was valid because "sectionTT" was now
> regarded an "any"-element and therefore still correct, so I missed this
> error. I'm going to modify my example, will that solve your problem?

Yes, that will solve my problem totally. Now I can totally ignore
sectionReflds because sectionTT is under ocpTT element.

-Teemu

Subject: Re: 1.1R2 - sectionTT element

Posted by [Joachim Rubröder railML](#) on Fri, 09 Jan 2009 10:08:19 GMT

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Hi,

I have changed the example in the timetable_V11-R2.zip, so please take a
fresh download.

Sorry for the misleading example and many thanks for detailed review!
Joachim

Subject: Re: 1.1R2 - sectionTT element

Posted by on Fri, 09 Jan 2009 12:51:35 GMT

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"JoachimRubröder" <coord@timetable.railml.org> kirjoitti viestissä
news:gk77mj\$q2u\$1@sifa.ivi.fhg.de...

> Hi,

> I have changed the example in the timetable_V11-R2.zip, so please take a
> fresh download.

>

> Sorry for the misleading example and many thanks for detailed review!

> Joachim

Yes, now the structure looks good again.

Thanks!

-Teemu
