
Subject: new draft of <infrastructure> 0.94

Posted by [Matthias Hengartner](#) on Wed, 20 Aug 2003 14:26:59 GMT

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Hello,

on [http://www.theband.ch/matthias/railml/infrastructure_V094_04 .zip](http://www.theband.ch/matthias/railml/infrastructure_V094_04.zip) (user: railml, pwd: line) you can find my new draft of the infrastructure schema.

The changes can be found

in the <startPoint>/<endPoint> elements: The x- and y- coordinates are no longer attributes of these elements, but encapsulated in a child element <position> (analogous to <lineElement> and <stationVis>).

Greetings from Switzerland

Matthias Hengartner

Noch eine Frage v.a. an Nikolaus & Ulrich:

Mein Schema basiert immernoch auf dem Entwurf von Ulrich. Dani hat mir Nikolaus' Arbeit inkl. Schema weitergeleitet. Sehe ich das richtig, dass

wird und dazu die neuen lineElements aus dem Schema von Nikolaus kommen?

Wann benutzt man eine <connection> (anstatt eine <switch>)? Ist dieses

Weiche oder Kreuzung)?

Subject: Re: new draft of <infrastructure> 0.94

Posted by [Matthias Hengartner](#) on Thu, 21 Aug 2003 11:17:11 GMT

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I have an additional comment on my proposed schema:

I've added an ID-attribute to all lineElements for the unique identification (which is necessary e.g. for visualisation) of a lineElement within one track. So we can identify a lineElement globally using the combination of lineId, trackId and ID.

Alternatively we could also define that the ID of any lineElement has to be globally unique.

I think that the former idea of identifying lineElements by

lineId-trackId-pos has the disadvantage, that there can't be 2 or more lineElements on exactly the same position (or is the occurrence of this situation not feasible?). That's why I added the ID-attribute.

Best regards
Matthias Hengartner

Subject: Re: new draft of <infrastructure> 0.94
Posted by [Vasco Paul Krauss](#) on Tue, 02 Sep 2003 04:32:14 GMT
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Liebe Kollegen,

die untenstehenden Nachricht sende ich im Auftrag von Herrn Thomas Kauer (SBB, Schweiz), der wegen Firewallproblemen nicht direkt in Forum schreiben kann.

<english>

I post this message on behalf of Mr. Thomas Kauer (SBB, Switzerland).

</english>

On Thu, 21 Aug 2003 13:17:11 +0200, "Matthias Hengartner"

<mhengart@student.ethz.ch> wrote:

> I have an additional comment on my proposed schema:

>

> I've added an ID-attribute to all lineElements for the unique identification

> (which is necessary e.g. for visualisation) of a lineElement within one

> track. So we can identify a lineElement globally using the combination of

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> globally unique.

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> I think that the former idea of identifying lineElements by

> lineId-trackId-pos has the disadvantage, that there can't be 2 or more

> lineElements on exactly the same position (or is the occurrence of this

> situation not feasible?). That's why I added the ID-attribute.

We are also discussing the problem of a global id.

In our actual systems we know the problem of different elements at the same

position and had to introduce an artificial offset - so the position is

not

always helpfull.

Furthermore we have the goal to make the difference between different states of an element so that we can manage the whole lifecycle:

- first introduction of an element within studies (many parallel

versions

for the same line!)

- refinement (of one or more versions) for concrete projects
- final construction plans
- in construction
- build (not yet in use - testing)
- in use
- deconstruction
- history

So to identify an element we should be able to address the state we are looking for. Each state should have a time of validity.

An other problem when using the position of an element for it's ID: During it's lifecycle the position of an element can be changed (normally by a small amount) without the need of changing it's ID or usage.

Best regards
Thomas Kauer
