

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).

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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

> 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.

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 helpful.

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 postion 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

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