
Subject: Re: [railML3] Mandatory <length> element for <track>s
Posted by [christian.rahmig](#) on Mon, 07 Oct 2019 19:33:49 GMT
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Dear Fabiana,

Am 17.09.2019 um 09:38 schrieb Fabiana Diotallevi:
> [...] I also agree to make the track length optional.

Thank you for your feedback!

- > As suggested by Christian, the position of all the involved
- > elements should be derived from the topology layer defined
- > by the netElements, which provide with their intrinsic
- > coordinates a reference to the specific used positioning
- > systems (linear or geometric).
- > I think that the netElements should be the "building blocks"
- > that, alone, are able to define the link between the
- > "logical" and the "real" world: any other element position
- > should be derived from the reference system defined by the
- > netElements network.

The answer to the question "What is the leading system for defining the location reference?" is somewhat use case specific. There are scenarios where the line kilometer system is the primary information and the intrinsic coordinates are derived from this, but the other scenario exists as well. railML shall suit all the different scenarios and related use cases. Therefore, its syntax provides elements/attributes for both, the intrinsic and the "extrinsic" location.

- > To check the stability of this assert we are currently
- > implementing the automatic import/export of railML 3.1 data
- > on our Rail-AiD tool by making the intrinsic coordinate
- > definition mandatory for all the netElements.

That's a good idea! We at railML.org are interested in "real world examples" and data sets. So, if you can show that the concept of mandatory intrinsic coordinates works for your use case (SCTP - Schematic Track Plan), we may cross-check this approach with other use cases, too, and learn from the results. Probably, you can present first experiences at the next railML Conference taking place in Brussels on November 6, 2019?

Best regards
Christian

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