
Subject: Lateral location of elements

Posted by [christian.rahmig](#) on Fri, 18 May 2018 11:19:20 GMT

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Dear RTM colleagues,

locating elements next to the railway track can be done on the basis of a LinearCoordinate element and its parameter @lateralOffset. By defining that negative values shall be handled as lateral distances to the left (in the direction of NetElement orientation) and positive values vice versa to the right, the exact location of the element is specified.

Question: How can I model an element situated left or right of the track without knowing the exact distance? For example: For opening the doors of the train on the correct side, I just need to know at which side the platform edge is situated. From my current understanding of the RTM it is not possible to model this reduced information without using pseudo values.

Proposal: The information about the side and the lateral distance should be separated in two parameters (e.g. @lateralSide, @lateralOffset) so that it is possible to define the lateral side without a specific distance.

Any comments on this issue are highly appreciated...

Best regards
Christian

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Christian Rahmig - Infrastructure scheme coordinator

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Subject: Re: Lateral location of elements

Posted by [christian.rahmig](#) on Wed, 04 Jul 2018 04:57:54 GMT

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Dear all,

although there has not been an answer on that topic so far, we need to find a solution for the problem, because it is essential for railML 3.1 and related "beta 2" version scheduled for end of August [1].

In particular, I already implemented the required RTM related change in railML 3.1. The latest version of railML 3.1 is available in the railML3 SVN trunk [2]. An overview of all the changes is provided in [3].

In this overview, restructuring the LinearCoordinate by introducing lateral and vertical offset side is marked as issue number 1.

[1]

<https://www.railml.org/en/public-relations/news/reader/33rd-railml-conference-and-version-roadmap.html>

[2] <https://svn.railml.org/railML3/trunk>

[3]

http://forum.railML.org/userfiles/2018-07-02_railml_railml3-induced-changes-to-rtm12.pdf

Best regards
Christian

Am 18.05.2018 um 13:19 schrieb Christian Rahmig:

> Dear RTM colleagues,
>
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> a LinearCoordinate element and its parameter @lateralOffset. By defining
> that negative values shall be handled as lateral distances to the left
> (in the direction of NetElement orientation) and positive values vice
> versa to the right, the exact location of the element is specified.
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Subject: Re: Lateral location of elements
Posted by [Airy Magnien](#) on Thu, 16 Aug 2018 13:02:08 GMT
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Seems ok, but we need to clarify whether e.g. the side information lateralSide is optional or not.

Suggested: if lateralSide is optional, then the offset value always means "left" if negative (it supersedes any possible value of lateralSide). Alternative: lateralSide is not optional, in which case offsets would normally be positive and only tell how far left or right.

What is the preferred option and why?

Subject: Re: Lateral location of elements
Posted by [Felix Prüter](#) on Thu, 23 Aug 2018 09:16:46 GMT
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Dear Airy, dear all,

I'd prefer your alternative solution.

I do not see how the suggested solution solves the issue of "how to provide a side without a concrete offset?", if a value for lateralOffset is still mandatory.

Subject: Re: Lateral location of elements
Posted by [Airy Magnien](#) on Tue, 04 Sep 2018 09:12:23 GMT
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After discussion in the RTM expert group workflow, this is the result:

- Side and positive "offset" (once the side is known) shall be provided
 - Semantic clarification: in general, "offset" may be positive or negative, we prefer not to use it in RTM because it may induce misunderstandings; instead:
 - Attributes @lateralSide and @lateralDistance are introduced, replacing the proposed @lateralOffset, where @lateralDistance is essentially positive. Rules are: both attributes are optional; if @lateralDistance is provided, it shall be positive or zero, and @lateralSide must also be provided.
 - Attributes @verticalSide (proposed values: 'up', 'down') and @verticalDistance also to be adopted, as suggested in the workflow, for reasons of consistency.
-

Subject: Re: Lateral location of elements
Posted by [christian.rahmig](#) on Mon, 17 Sep 2018 10:29:09 GMT
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Dear all,

the following solution / clarification by RTM Expert Group has been

considered in latest railML version 3.1 beta (2) implementation. You may download the related schema files etc. via railML's SVN repository in [1].

[1] <https://svn.railml.org/railML3/tags/railML-3.1-beta2/>

Best regards
Christian

--

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Am 04.09.2018 um 11:12 schrieb Airy Magnien:

- > After discussion in the RTM expert group workflow, this is
 - > the result:
 - >
 - >
 - > - Side and positive "offset" (once the side is known) shall
 - > be provided
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