
Subject: [railMLv3]: switch referece point
Posted by [Fabrizio Cosso](#) on Fri, 25 Jan 2019 16:43:48 GMT
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Dear all,
I would like to discuss with the community about the switch refence point when indicating its position in some positioning system.
What's the preferred reference point?
- the head/begin of switch position as reference point
- center as reference point
Are both information (begin and center) needed and used by systems?

Thanks

BR

Fabrizio

Subject: Re: [railMLv3]: switch referece point
Posted by [Jörg von Lingen](#) on Sat, 26 Jan 2019 07:34:32 GMT
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Attached you find the typical transformation from hardware to schematic plan in Germany.
WA - beginning of switch
WM - centre, crossing point of tangents
WE - end of switch
Ro - radius of branching track

Regards,
Jörg von Lingen - Interlocking Coordinator
Fabrizio Cosso wrote on 25.01.2019 17:43:
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> Thanks
>
> BR

>
> Fabrizio
>

File Attachments

1) [Weichenplan01.jpg](#), downloaded 402 times

Subject: Re: [railMLv3]: switch referece point
Posted by [christian.rahmig](#) on Mon, 08 Apr 2019 18:16:58 GMT
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Dear all,

following our 35th railML Conference in Linz last week, I want to pick up the topic of the switch reference point again and summarize the current state of the discussion:

- 1) Depending on the use case different points of the switch are of interest.
- 2) For SCTP (schematic track plan) the WM (switch center, crossing point of tangents) seem to be the interesting one.
- 3) Use cases that have higher requirements on the lengths of the tracks the WA (switch begin) seems to be the best choice.
- 4) The WA (switch begin) is not clearly defined: some people locate it at the (virtual) begin of the radius of the branching track while others locate it at the begin of the switch tongues.
- 5) It would be good if a switch can be located via a <spotLocation> with any of the forementioned points and requirements.

And now my questions to you, dear community:

- a) Do you consider point 5) as essential for railML 3.x?
- b) Which point will you choose if you locate the switch via a <spotLocation>?

Thank you very much and best regards
Christian

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