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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

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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  
>

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## File Attachments

1) [Weichenplan01.jpg](#), downloaded 319 times

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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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Christian Rahmig - Infrastructure scheme coordinator  
railML.org (Registry of Associations: VR 5750)  
Phone Coordinator: +49 173 2714509; railML.org: +49 351 47582911  
Altplauen 19h; 01187 Dresden; Germany [www.railml.org](http://www.railml.org)

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