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Subject: [railML3] switch reference point

Posted by [christian.rahmig](#) on Mon, 21 Feb 2022 12:56:39 GMT

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Dear railML community,

in the last ETCS use case working group meeting on February 18, 2022 [1], we discussed about the switch data model in railML 3. One aspect that is also described in the slides [2] focuses on the switch reference point. Two switch reference points have been identified:

- \* the switch begin (begin of branching track)
- \* the switch center (usually taken as reference point in schematic visualizations)

In order to calculate one switch reference point from the other one, it is necessary to know the switch tangent length, which is the distance from switch begin to switch center and half the distance between switch begin and switch end. Therefore, a new optional attribute <switchIS>@tangentLength (tLengthM) has been proposed [3].

Since the crossing is a functional infrastructure element quite similar to the switch, I wonder if we should model the "switch tangent length" also for the crossing? Is there anyone, who needs an attribute <crossing>@tangentLength? Any comments are highly appreciated...

[1] [https:// www.railml.org/en/event-reader/railml-is-etcs-telco-2022-02- 18.html](https://www.railml.org/en/event-reader/railml-is-etcs-telco-2022-02-18.html)

[2] <https://cloud.railml.org/f/82180>

[3] <https://development.railml.org/railml/version3/-/issues/493>

Best regards

Christian

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