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Subject: Re: Export linear location information for switch tip/left/right branch and crossings

Posted by [Larissa Zhuchyi](#) on Fri, 22 Mar 2024 16:37:32 GMT

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Regarding the first question: The addition of three linear locations I do not understand at full extent, because the topology of a switch is already determined by left, right branches and application direction. If they are needed to model temporary speed restrictions maybe they should be children of <speedSection>. Then again if the netElementRef of the linear location of <speedSection> is the same as the net element of netRelationRef of right/<leftBranch> then it applies to the left, right or tip branch.

If you want to state that all the three topology net elements are covered by a railway switch and you have the exact coordinates to indicate to which extent then <areaLocation> seems to be a better solution.

Regarding the second question: please see the guide on crossings of the Wiki of railML3 [1] (section 2) for modelling of a crossing as a combination of switch/@type="doubleSwitchCrossing" and two elements switch/@type="switchCrossingPart" with @applicationDirection "normal" and "reverse". I think this approach was developed specifically for your problem to determine whether "netElement belongs to upper-left, lower-left, upper-right and lower-right".

Please let me know whether:

(1) linear locations can be children of <speedSection> in your model or there is still a need to place them inside a switch;

(2) approach [1] meets your requirements for the crossings.

[1] [https://wiki3.railml.org/wiki/Dev:Double\\_and\\_single\\_switch\\_crossing](https://wiki3.railml.org/wiki/Dev:Double_and_single_switch_crossing)

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