Subject: [railML3] Regular and a track of the opposite direction
Posted by Larissa Zhuchyi on Fri, 13 Sep 2024 11:00:33 GMT
View Forum Message <> Reply to Message

Dear all

track/@mainDirection has unsufficient definition "predominant direction of operation on this track; use this attribute to define the default direction of train operations, especially on double track lines".

We need to add a reference direction as in railML2 track/@mainDir [2] or spotLocation/@applicationDirection.

Currently there are two suggestions:

1) track/@mainDirection is a predominant direction of operation on this track "in relation to the first of the specified associatedNetElements and then continued over the following associatedNetElements independent of the orientation of the those following netElements" [1].

2) track/@mainDirection is a predominant direction of operation on this track related to the linearPositioningSystem (reference to which, can be presumably found at the linearCoordinateBegin child).

Moving reference direction from netElement to external system (linearPositioningSystem) can allow to use this attribute to represent the regular and track of the opposite direction (Regel- and Gegengleis in German) as defined in [3, 4].

Alternatively, for representing Regel- and Gegengleis we could add a new element e.g. trackOperation with attributes @positioningSystemRef and enumeration values "default, contraflow, undefined".

Which approach for modeling track/@mainDirection and Regel- and Gegengleis do you prefer?

[1]   https://www.railml.org/forum/index.php?t=msg&th=964& goto=3302&#msg_3302
[2] https://wiki2.railml.org/wiki/IS:track
[3] https://www.tf-ausbildung.de/BahnInfo/gegengleis.htm
[4] https://www.sh1.org/eisenbahn/rgwb.htm

Sincerely,