Subject: [railml3.1] Redundant references in TVD sections and restricted areas
Posted by Thomas Nygreen JBD on Tue, 08 Jan 2019 21:21:58 GMT
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Dear all,

It seems to me that the references to all tracks (partially) inside a TVD section
(<relatedToTrack>s) and the references to all track assets in a restricted area
(<trackAssetInRA>s) are both redundant and incurring a large overhead. In both cases, these
references can be found by the consuming system by following other defined references.

Subject: Re: [railml3.1] Redundant references in TVD sections and restricted areas
Posted by Joerg von Lingen on Wed, 16 Jan 2019 11:35:53 GMT
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Dear all,

we discussed the issue of <relatedToTrack>s in TVD section today.
1) The element shall be optional not mandatory.
2) It was introduced to allow finding the neighbour TVD section in case of sections with gap as
described by Norwegians.
Means there may be cases where (especially) track circuits without explicit insulated rail joints
(IRJ) are not joining
or overlapping. As long as we cannot exclude such cases of gaps I would rather keep the possible
references to
underlaying track.

Regards,
Jörg von Lingen - Interlocking coordinator

Thomas Nygreen wrote on 08.01.2019 22:21:
> Dear all,
>
> It seems to me that the references to all tracks (partially)
> inside a TVD section (<relatedToTrack>s) and the references
> to all track assets in a restricted area (<trackAssetInRA>s)
> are both redundant and incurring a large overhead. In both
> cases, these references can be found by the consuming system
> by following other defined references.
>

File Attachments
1) TC_gap.jpg, downloaded 385 times

Subject: Re: [railml3.1] Redundant references in TVD sections and restricted areas

Posted by [Joerg von Lingen](#) on Thu, 17 Jan 2019 04:35:54 GMT
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see also post https://www.railml.org/forum/index.php?t=msg&th=614& start=0&

Jörg von Lingen - Interlocking coordinator

Subject: Re: [railml3.1] Redundant references in TVD sections and restricted areas
Posted by [Thomas Nygreen JBD](#) on Mon, 21 Jan 2019 14:09:58 GMT
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It is correct that finding the next TVD section by looking for other sections referencing the same boarder is not robust when there can be gaps. But that does not make it necessary to include a reference to the track. Actually, in the case of a gap, the next TVD section will not necessarily belong to the same track (e.g. if the gap occurs in a switch). I would rather suggest using the spotLocation/@netElementRef of the already referenced trainDetectionElement and follow that netElement in the applicable direction (if necessary across relations).

Subject: Re: [railml3.1] Redundant references in TVD sections and restricted areas
Posted by [Joerg von Lingen](#) on Sat, 26 Jan 2019 04:00:24 GMT
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<relatedToTrack>s in TVD section removed

Thomas Nygreen wrote on 21.01.2019 15:10:
> It is correct that finding the next TVD section by looking
> for other sections referencing the same boarder is not
> robust when there can be gaps. But that does not make it
> necessary to include a reference to the track. Actually, in
> the case of a gap, the next TVD section will not necessarily
> belong to the same track (e.g. if the gap occurs in a
> switch). I would rather suggest using the
> spotLocation/@netElementRef of the already referenced
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> applicable direction (if necessary across relations).
>