Subject: Requirements for RTCI-a (Infrastructure) UC
Posted by Torben Brand on Thu, 21 Sep 2023 14:57:46 GMT
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With reference to the post to create a run time calculation input parameter use case in the TT forum (https://www.railml.org/forum/index.php?t=msg&th=906& start=0&)

We are currently working on the RTCI-a UC (sub-UC for infrastructure) in the SCTP working group. But I would also like to include the rest of the community through this post.

I suggest to add the following infrastructure elements to the RTCI-a UC:
- metadata
- operational point (OP)
- Reference point OP
- Stop marker
- topology
- Mileage change
- speed
- Deflecting speed
- gradient
- Tunnel (resistance)
- (main)signal & route
- Clearance (for main signal)
- Operational rules (limiting)
- electrficationChange
- trainProtectionSystemChange
- restrictions

Se attached image for illustration, and attached Excel sheet for an overview table with simple mapping towards railML3.2 and comments on the elements.

I have mapped the elements towards railML3.2 in the table bellow and also to requirements in the attribute table for railML3.2 attached and in the cloud: https://cloud.railml.org/s/Xe3WXrpciBtjstS (You find it in the folder: "Working group IS/UseCases/uc_SCTP/03_elementSpecification")

The Excel contains two sheets. One "RTCI-a high level" for just the main elements (26 rows) and one sheet "railML_3.2_uc-SCTP+RTCI-a" for all the attributes (with 10515 rows!).

I have also made a smallest possible model for RTC in NorRailView:
    https://railoscope.com/tickets/bRbcASDgBifKJ9rM?modelId=64e5 d0e6bd09d86eb8d810cb
You can access it with this open link and download it in certified railML2.4nor. As version 3.2 is pending certification, it is not available for open download, but I have attached the file here for illustration purpose only.

File Attachments

1) Ilustration RTCI-a.png, downloaded 70 times
2) Smallest example RTC in railML3.2.xml, downloaded 61 times
3) UseCaseOverview_RTCI-a.xlsx, downloaded 63 times