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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)
- electrificationChange
- trainProtectionSystemChange
- restrictions

See 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 below 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=64e5d0e6bd09d86eb8d810cb>  
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

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- 1) [Illustration RTCI-a.png](#), downloaded 77 times
  - 2) [Smallest example RTC in railML3.2.xml](#), downloaded 139 times
  - 3) [UseCaseOverview\\_RTCI-a.xlsx](#), downloaded 136 times
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Subject: Re: Requirements for RTCI-a (Infrastructure) UC

Posted by [Francesca Iannaccone](#) on Fri, 27 Oct 2023 13:08:49 GMT

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Dear Torben,

thank you for your post. At the moment we (NEAT) only support some of these elements so we are not able to fully cover this use case. We probably will in some months. However, the UC you presented is very interesting and we agree with your proposal.

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