Subject: Missing attributes and maybe elements in railML3.2 for RTCI-a
Posted by Torben Brand on Thu, 21 Sep 2023 19:27:44 GMT
View Forum Message <> Reply to Message

The mapping in post "Requirements for RTCI-a (Infrastructure) UC"
 https://www.railml.org/forum/index.php?t=msg&th=922& start=0&
has revealed that all items are present in railML2.5 (and in railML2.4nor) and most items are
present in railmL3.2. But some are missing and some might be missing.

These are in prioritised order:
- Tunnel resistance
- Electrification change (macroscopic)
- Train protection system change (macroscopic)
- Operational rules

The items are introduced bellow. If there are development ideas for railmL3.3 I suggest to make a
separate post.

Tunnel (resistance)
Uses <overCrossing> but is missing resistance factor attribute.
in railML2.5 used: tunnel@resistanceFactorPassenger and @resistanceFactorFreight
(https://wiki2.railml.org/wiki/IS:tunnel)
Suggest to add as new attribute in railML3.3.

Electrification change
Purpose is macroscopic system change e.g. none vs overhead. See example in Network
statement:
 https://networkstatement.banenor.no/doku.php?id=vedlegg:elek trifiserte_linjer
Can we use <electrificationSection>? We only need @contactLineType="none" or "overhead" on
a macro level. But is correct use of <electrificationSection>? It seems to be of more microscopic
use. Or can you mix macro and micro <electrificationSection>s?
In railML2.5 used: electrificationChange@type
https://wiki2.railml.org/wiki/IS:electrificationChange

Train protection system change
Purpose is macroscopic system change e.g. none vs ETCS. See example in Network statement:
 https://networkstatement.banenor.no/doku.php?id=vedlegg:syst
em_for_automatisk_hastighetsovervaking
Can we use <trainProtectionElement>? Only need @trainProtectionSystem. Is it correct to use
<trainProtectionElement> for change on macroscopic level?
In railML2.5 used: trainProtectionChange@trainProtectionSystem with values from
TrainProtectionSystems.xml/trainProtectionSystemsAtTrack.
https://wiki2.railml.org/wiki/IS:trainProtectionChange

Operational rules
This element seems to be missing in railML3.
In railML2.5 used : <operatingRules> under <infrastructure>.
https://wiki2.railml.org/wiki/IS:operatingRule

Was decided to be under <common> in railML3? But is not implemented.