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Subject: [railML3] electrification is IS, RS and CO  
Posted by [christian.rahmig](#) on Fri, 24 May 2024 11:06:36 GMT  
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Dear all,

the electrification model in railML 3.2 is rather heterogeneous: there are aspects in Common (CO), Infrastructure (IS) and Rollingstock (RS) schema. A detailed analysis can be found in the Gitlab issue #511 [1].

With railML 3.3 we want to harmonize the electrification model. A possible solution is also described in [1]. In detail:

- \* Move TractionMode from CO to RS.
- \* Remove ElectrificationSystem as base for TractionMode and add an electrificationSystemRef.
- \* Add an attribute to ElectrificationSystem specifying the type of electrical interface between the infrastructure and rolling stock to replace IS:electrificationSection@contactLineType and parts of RS:engine/powerMode/@mode and RS:trainEngine/tractionMode/@mode.
- \* Deprecate IS:electrificationSection@contactLineType.
- \* Replace "electricOverheadLine" and "electricThirdRail" with one common value in TractionMode/@mode
- \* Should we add more properties to RS to match the requirements specified in IS, or is there no demand for this?
- \* Clean up subelements of IS:electrificationSection (see #512 [2])

Any further feedback on this from the community is highly appreciated.

[1] <https://development.railml.org/railml/version3/-/issues/511>

[2] <https://development.railml.org/railml/version3/-/issues/512>

Best regards  
Christian

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