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Subject: [railML3]: RbcBorder: IS vs IL

Posted by [Jörg von Lingen](#) on Sun, 01 Sep 2024 02:49:43 GMT

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Dear all,

the RBC is an element in railML, where the sub-schemas IS and IL are connected.

In particular, the IS element <radioBlockCentreBorder> references a <radioBlockCentre> via the child element <belongsToRadioBlockCentre>.

Actually, this referencing direction is conflicting with one of our modelling rules that there should be only links from one schema to the other one. For IS and IL sub-schemas, this rule means that IL can refer to IS elements, but IS should not link (back) to IL elements.

In order to solve this potential conflict, we created a Gitlab issue [1] and want to change the model with upcoming railML 3.3. In future, the only reference between <radioBlockCentre> in IL and <radioBlockCentreBorder> in IS will be the already existing repeatable RBC child element <isLimitedByRadioBlockCentreBorder>.

In general the linking between IS and IL is to provide the functional relation of physical or virtual objects with railway network location in the signalling/interlocking sense. The IS element <radioBlockCentreBorder> is such an object with location. But the functional relation is made only by IL element <radioBlockCentre>. Whereas an RBC has not and does not need a railway network location. It is a pure functional unit.

Please let us know your ideas and comments on this proposed railML 3.3 model change.

[1] <https://development.railml.org/railml/version3/-/issues/565>

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Best regards,

Joerg v. Lingen - Interlocking Coordinator

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