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Subject: Re-factoring of <infraAttributes>

Posted by [christian.rahmig](#) on Mon, 18 Jun 2018 10:58:28 GMT

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Dear railML community,

railML 2.4 is approaching, but we still have many elements and attributes in our model that need some revision. For example: <infraAttributes> and their child elements...

<infraAttributes><owner>

The attribute @uic-no can be marked DEPRECATED, because the information is modelled as "companyId" in codelist infrastructureManagers.xml.

<infraAttributes><operationMode>

Both parameters, @modeLegislative and @modeExecutive, are simple text strings and not documented in the wiki and the schema. My question to you: do you use these attributes? If yes, what do you model with these attributes?

The attribute @clearanceManaging lists the following values: "sight", "time", "blocking", "LZB-blocking" and "absBrakeDist". If needed at all, I suggest to mark at least "LZB-blocking" as DEPRECATED. Any comments?

<infraAttributes><trainProtection>

Currently, the train protection system is characterized by the attributes @monitoring (enumeration value list: "none", "intermittent", "continuous") and @medium (enumeration value list: "mechanical", "electric", "inductive", ...). How about adding an attribute @trainProtectionSystem (string) to reference the matching train protection system from codelist TrainProtectionSystems.xml. This is already possible for the single <trainProtectionElement>.

<infraAttributes><powerTransmission>

The attribute @type is used to distinguish between conventional railways and rack railways (de: Zahnradbahn) or others. The usage of the other attribute @style (string) is completely unclear. If nobody has any intelligent idea, I suggest to mark this attribute DEPRECATED. Btw: the <powerTransmissionChange> element has also an attribute @style, which is as mysterious as the one in <infraAttributes><powerTransmission>.

<infraAttributes><speed>

What does the attribute @status stand for? Yes, this attribute appears also in <speedChange>, but remains mysterious there, too.

<infraAttributes><epsgCode>

The purpose of this element is to name the EPSG codes of the positioning systems that are used throughout the referencing infrastructure. In the <geoCoord> element we used attributes @epsgCode and @heightEpsgCode.

This differs from <infraAttributes><epsgCode> where the attributes are named @default and @extraHeight. I suggest to synchronize the naming using @epsgCode and @heightEpsgCode. Any objections?

<infraAttributes><generalInfraAttribute>

The documentation of this element in the wiki [1] is completely empty. Well, if there is no use case for the <generalInfraAttribute>, I suggest to remove it aka mark it DEPRECATED.

As usual, any kind of comment is highly appreciated...

Best regards  
Christian

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