
Subject: Missing 'any' attributes/elements

Posted by on Tue, 15 Sep 2015 13:32:17 GMT

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Hello all,

in addition to my request for an any attribute for the circulation element, I would like to propose a general extension of elements with "any"-attributes / -elements as an input for railML 2.3. In general, I think there is a lack of "any" attributes / elements within the <timetable> schema. One purpose of any elements / attributes is to extend railML in the short term without waiting for the next schema release. This means, that these extensions must be implemented in the schema before someone discovers the need for it. Since it's hard to predict, for which element extensions are needed in the future, it cannot be decided individually, which elements should have an any element or attribute. To minimize the effort for extending the schema, I wouldn't extend all elements globally. So I would propose the following rules to limit the amount of relevant elements:

- 1) all elements that have at least one attribute should also have an any-attribute, elements without attributes should not have an any attribute.
- 2) all elements that contain at least one sub element should also have an any-element, elements without sub elements should not have an any element.
- 3) exceptions are pure container elements, that exclusively group sub elements of one type, e.g. <trains>, <trainParts>, <rostering><blockParts>. These elements should not have any any elements or attributes.

According to these rules additional "any-attributes" are necessary for the following elements:

- <timetablePeriods><timetablePeriod><holidays><holiday>
- <operatingPeriods><operatingPeriod><operatingDay>
- <operatingPeriods><operatingPeriod><operatingDay><operatingDayDeviance >
- <operatingPeriods><operatingPeriod><specialService>
- <trainParts><trainPart><formationTT><equipmentUsage><equipment ><etcs>
- <trainParts><trainPart><formationTT><passengerUsage><places >
- <trainParts><trainPart><formationTT><reservationInfo><booking >
- <trainParts><trainPart><ocpsTT><ocpTT><statistics><statistic ><mean>
- <trainParts><trainPart><ocpsTT><ocpTT><statistics><statistic ><median>
-
- <trainParts><trainPart><ocpsTT><ocpTT><statistics><statistic ><standardDeviation>
-
- <trainParts><trainPart><ocpsTT><ocpTT><statistics><statistic ><statisticAnalyses>
- <trainParts><trainPart><ocpsTT><ocpTT><sectionTT><runTimes >
- <trainParts><trainPart><ocpsTT><ocpTT><stopDescription><stopTimes >
- <trains><train><trainPartSequence><brakeUsage><auxiliaryBrakes >

- <rosterings><rostering><circulations><circulation>

The same for "any-elements":

- <operatingPeriods><operatingPeriod><operatingDay>
- <trainParts><trainPart><formationTT>
- <trainParts><trainPart><formationTT><equipmentUsage><equipment >
- <trainParts><trainPart><formationTT><passengerUsage>
- <trainParts><trainPart><ocpsTT><ocpTT><connections><connection >
- <trainParts><trainPart><ocpsTT><ocpTT><statistics><statistic >
- <trainParts><trainPart><ocpsTT><ocpTT><sectionTT>
- <trainParts><trainPart><ocpsTT><ocpTT><stopDescription>
- <trains><train><trainPartSequence>
- <trains><train><trainPartSequence><brakeUsage>
- <rosterings><rostering><blocks><block><blockPartSequence >

Feedback would be appreciated.

Best regards
Christian Rößiger

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