

Hi all,

I would like to start a discussion on this topic and I have found two topics started by Andreas Tanner, IVU with similar content:

train uniqueness constraint II

<http://www.railml.org/forum/ro/index.php?group=2&offset= 0&thread=109&id=391>

problems with s: uniqueness constraints, scope

<http://www.railml.org/forum/ro/index.php?group=2&offset= 0&thread=101&id=360>

However, I would like to have a representation of two identical trains that shows the origin of the train which cannot be represented by the processStatus of a train (or trainPart). One of the use cases is a view of a train in a bid/offer process and this would include two, three or even more 'variants' of the same train.

For this reason we need additional information regarding the source of a train/trainPart and the following approaches were found. These approaches do not solve the problem of modeling a bid/offer process in railML although it would be nice to find a solution that would be suitable to support this in the future:

1. Create one file for each source
2. Create one timetablePeriod element for each source
3. Use a special trainGroup to identify the trains for one source

With 2 & 3 the constraint for a train could be extended to include the referenced element - e.g. trainNumber, scope and additionalTrainNumber have to be unique for each trainGroup.

These solutions are based on existing elements and I would be happy to get some feedback regarding your views and possibly suggestions on a meaningful extension that might make it into railML 3.0 to support this.

Kind regards,

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railML Partnerlink:
<http://www.railml.org//index.php/entwickler.html?show=112>

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