Subject: [railML 3] New semantic constraint for trainVariant Posted by Milan Wölke on Mon, 13 Mar 2023 16:22:32 GMT

View Forum Message <> Reply to Message

Hi all,

in the last few timetable developer group meetings we have been discussing another semantic constraint in order to help understanding the new timetable model and in order to improve data exchange. This time it is focused on the operationalTrainVariant as well as the commercialTrainVariant. We propose for both of these to define the following semantic constraint:

Quote:

When calculating which <commercialTrainVariant> of a <commercialTrain> is valid on a particular day always a maximum of one active <commercialTrainVariant> shall be the result. If the result is more than one <commercialTrainVariant>, all except one shall be marked as <isCancelled> or <isOnRequest>.

The above wording exists in the same way for the operational Train Variant. From our point of view this should help make it clear how to export and how import a rail ML 3 timetable. What do you think? Do you have use cases in mind where this semantic constraint would be a burden?

Best regards, Milan

Subject: Re: [railML 3] New semantic constraint for trainVariant Posted by David Lichti on Wed, 15 Mar 2023 12:39:16 GMT View Forum Message <> Reply to Message

This may be a more general topic: But how is the interaction of semantic constraints with custom extensions?

For example, if there was an extension adding a flag for propsed trains, f.ex. <ext:isProposed>. That train would be neither cancelled (because it hasn't been published), nor on-request (because it hasn't been agreed). In such a case it would be reasonable to have more than one proposed variant for one day.

Subject: Re: [railML 3] New semantic constraint for trainVariant Posted by Milan Wölke on Wed, 05 Apr 2023 10:25:48 GMT View Forum Message <> Reply to Message

Hi David,

this is an interesting question. Basically you try to extend railML with this custom extension not to add more information that is not included in the standard, but to support a use case that so far is

not supported. I will add this to the agenda of the next TT-Telco and also to the agenda of the coordinators telco.

Best regards, Milan

Subject: Re: [railML 3] New semantic constraint for trainVariant Posted by Milan Wölke on Tue, 02 May 2023 15:57:59 GMT View Forum Message <> Reply to Message

We discussed this question in our last TT developer call. If, as stated above a new use case needs to be supported a modelling for that use case needs to be found that does not collide with the established semantic constraints. Usually this is possible. In this case for example a different kind of variant could be imagined that would then encode the needed data for the use case. That way the semantic constraint would remain valid and importing software would only import the parts that apply to it (assuming an importing software does not support the new use case) with all assumptions applicable.

Just to have this also documented here.

Best regards, Milan