Subject: Re: Suggested refined definitions and extension to organizationalUnits
Posted by on Thu, 26 Nov 2020 15:29:35 GMT
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Hello everyone,

in general, I agree that there is currently no possibility in railML to indicate an owner of the vehicles of a <trainPart> and would therefore support an extension.

Am 26.11.2020 um 06:46 schrieb Thomas Nygreen:
> Dear all,
>
> We have a new trac ticket for this request:
> https://trac.railml.org/ticket/435
>
> In addition to adding the <vehicleOwner> elements requested
> by Norway, it would be natural to add an <owner> child of
> the rolling stock vehicle <classification> element.

I would rather implement only one of the <vehicleOwner> references below <trainPart> or <vehicle> and instead of both.

The reference to a <vehicleOwner> from a <trainPart> has the problem that a <trainPart> may consist of vehicles with different owners, but only one <vehicleOwner> can be specified per <trainPart>. In this case separate <trainPart>s would have to be created for each owner. This is not a new problem, however, but applies analogously to the existing <vehicleOperator> reference of the <trainPart>.

Defining the <owner> directly at the <vehicle> avoids this problem, but separate <vehicle>s would have to be defined for all owners of a vehicle class. In order not to specify too much redundant data, the physical data of the vehicle and the <owner> or <operator> assignments could be defined as separate <vehicle>s and mutually referenced with the attribute 'vehicleFamilyRef' (see example below).

I would prefer the second variant because it seems to be more flexible. In this case one could consider to declare the <vehicleOperator> element of the <trainPart>s as deprecated.

Best Regards
Christian Rößiger

--- Example ---

<vehicle id='veh_1' description='This is the physical vehicle class' speed='160', length='22.50'>

```
  <classification>
    <manufacturer vehicleManufacturerRef='vm_1' manufacturerType='XX.XX' />
  </classification>
</vehicle>

<vehicle id='veh_2' description='first owner, first operator'
vehicleFamilyRef='veh_1'>
  <classification>
    <operator vehicleOperatorRef='vop_1' operatorClass='YY.YY' />
    <owner ownerRef='vow_1' />
  </classification>
</vehicle>

<vehicle id='veh_3' description='second owner, second operator'
vehicleFamilyRef='veh_1'>
  <classification>
    <operator vehicleOperatorRef='vop_2' operatorClass='ZZ.ZZ' />
    <owner ownerRef='vow_2' />
  </classification>
</vehicle>
```

Comment: 2nd and 3rd <vehicle> do reference the 1st one which contains the physical data. 2nd and 3rd <vehicle> serve only as assignment of a certain <operator> and <owner> to a physical vehicle class.

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