Subject: [railML2] Extension proposal: new attributes for <category>
Posted by Torben Brand on Tue, 13 Oct 2020 10:18:34 GMT
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Dear railML-community,

parentRef
In the Norwegian railway sector, we have defined top-level train categories for data exchange. If there is a need to define more detailed categories in addition to the common top-level categories, they can be added. Any new category will be a sub-category of either a top-level category or another organization-specific one and must be linked to their parent category by using newly introduced attribute @nor:parentRef in railML2.4nor. This way, any new category can be traced to one of the top-level categories.

organizationalUnitRef
Additionally, all new categories should declare the organizational unit that has created it. Therefore, we extended the element <category> by another attribute: @nor:organizationalUnitRef.

If these attributes are of interest for more users, we would welcome a discussion for a possible integration in railML2.5. Any feedback is highly appreciated.

Best regards

Torben Brand
in this topic on behalf of Jernbanedirektoratet and Bane NOR

Subject: Re: [railML2] Extension proposal: new attributes for <category>
Posted by   on Wed, 28 Oct 2020 09:04:56 GMT
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Hello Torben,

concerning the addition of the organizationalUnitRef attribute I agree.
It is possible that different operators use the same category names and
that a distinction can therefore only be made on the basis of the
operator. However, we should specify which type of <organizationalUnit>
is to be referenced, e.g. <railwayUndertaking> or <operationalUndertaking>.
With regard to an attribute parentRef I have no general objections, but
I do not yet really understand the use case. Could you give me a few
simple examples, with explanations of how the attributes of the
top-level categories and the subordinate categories interact?

Best Regards
Christian Rößiger
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iRFP e. K. · Institut für Regional- und Fernverkehrsplanung

Subject: Re: [railML2] Extension proposal: new attributes for <category>
Posted by Torben Brand on Mon, 23 Nov 2020 20:01:59 GMT

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Hi Christian and the rest of the railML-community,

We think that any organisationsUnit that has created a <category> can be referenced.

Adding organization-specific or custom categories
If there is a need to define more detailed categories in addition to the common top-level
categories listed above, they can be created by adding new ones. Any new category must be
linked to an existing parent category, which can be either a top-level category or another
organization-specific one. By following the values of the attribute @nor:parentRef, one must
always be able to trace a new category to one of the top-level categories. All new categories must
declare the organisational unit that created it.

Charge categories
For charge categories for billing purposes of the access charge (named "produktkode for
markedssegmentering» by Bane NOR), make new operational category instances with
@nor:parentRef to the relevant operational category listed here.

Marketing categories
For commercial categories to the public for marketing purpose (named "togtype" by Bane NOR),
make new product category instances with @nor:parentRef to the relevant product category listed
here.

Typical use case in Norway is:
Type of category-Organisation name-Organisation type-Parent Ref:
Operational-Bane NOR-InfrastructureManager-none
Product-Jernbanedirektoratet-customer-none
Charge-Bane NOR-InfrastructureManager-operational
Marketing-Vy-railwayUndertaking-product

Code example:

```
<categories>
  <category id="c1" code="Pt" name="Persontog"
       trainUsage="passenger"/>
  <category id="c2" code="T1" name="Trafikkpk.1/SB"
       trainUsage="passenger"
       nor:organizationalUnitRef="[@id for "Bane NOR"]"
       nor:parentRef="c1"/>
  <category id="c3" code="FJ" name="Fjerntog"
```

```
          trainUsage="passenger"/>
   <category id="c4" code="Sø" name="Sørtoget"
          trainUsage="passenger"
          nor:organizationalUnitRef="[@id for "GO Ahead"]"
          nor:parentRef="c3"/>
</categories>
...
<trainpart id="tp1" categoryRef="c4">
...
<train>
 <trainpartSequence categoryRef="c2">
  <trainPartRef ref="tp1"/>
```

For further explanation of the proposed <category> extensions, please see the railML2.4norTT documentation chapter 4.1 here: https://www.jernbanedirektoratet.no/globalassets/documenter/railml/20200703_railml2.4norttdocumentation_v1.0.pdf

Kind regards

Torben Brand
Jernbanedirektoratet