Andreas Tanner <ata@ivu.de> writes:

Hi Andreas,

> In RailML, we have different attributes and elements for roles:
> - "owner" in InfraAttrGroups and "ownerChanges", both used for tracks
> - "manufacturer" and "operator" (element) for vehicles,
> - "operator" (attribute) for trainParts

Yes, it's done in different ways across the subschemas.

> I think it would be wise to introduce a dedicated type for "roles" and
> provide slots for id references at the appropriate locations. Maybe a
> string enumeration type would work for the names of the different
> roles. Even better, we could provide container elements as used in the
> vehicle classification everywhere.

I try to figure out, what you want to get. The following XML snippets
try to show your wishes. Please correct me, if I'm wrong with my
implementation.

```
<infrastructure>
  ...
  <infraAttributes>
   <owner id="im_12345" name="Die Bahninfrastruktur"
       role="infrastructureManager"
       uicNumber="foo"/>
  ..
  <track>
   ...
   <ownerChange id="im_54321" name="Schweizerische Bahn"
          role="infrastructureManager"
          uicNumber="bar"/>
   ...
</infrastructure>
<rollingstock>
  ...
  <vehicle>
   <classification>
    <manufacturer id="m_123" name="Bombardjee"
           role="manufacturer"
           serial_number="123.456.78"/>
    <operator id="o_123" name="EmErCeE-DispoLok"
         role="rollingstockOperator"
```

```
          class="baz"
          startDate="2012-01-01" endDate="2012-12-31"/>
  ...
</rollingstock>
<timetable>
  ...
  <trainPart>
   <operator id="op_123" name="Der Bahnbetreiber"
        role="railwayUntertaking"/>
  ...
</timetable>
```

My first step is some clarification, afterwards I would comment it.

Thanks for your idea and kind regards...
Susanne

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Susanne Wunsch
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