
Subject: Re: roles

Posted by [Andreas Tanner](#) on Fri, 16 Mar 2012 10:48:44 GMT

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Hi,

what about something like this:

Fragment from schema:

```
<xs:simpleType name="RoleName">
<xs:restriction base="xs:string">
<xs:enumeration value="InfrastructureManager"/>
<xs:enumeration value="Operator"/>
<xs:enumeration value="Contractor"/>
<xs:enumeration value="Manufacturer"/>
</xs:restriction>
</xs:simpleType>
```

Usage in document:

```
<role id="001" roleName="InfrastructureManager" owner="BrokenTracks"
uic="foo"/>
<role id="002" roleName="Operator" owner="SpeedyRailways" uic="xxx"/>
<role id="003" roleName="Contractor" owner="AtYourServiceCorp" uic="yyy"/>
<role id="004" roleName="Manufacturer" owner="SteamCoach" />
```

....

```
<infraStructure>
```

....

```
<infraAttributes><roleref ref = "001" startdate="..." ... </infraAttributes>
```

....

```
</infraStructure>
```

```
<timetable>
```

....

```
<trainPart><roleRefs>002 003</roleRefs><trainPart>
```

....

```
</timetable>
```

```
<rollingStock>
```

```
<vehicle>
```

```
<classification>
```

```
<roleRefs>
```

```
<roleRef ref="004" startDate="..." .../>
```

...

```
</roleRefs>
```

```
</classification>
```

....

Regards,
Andreas Tanner.

Am 15.03.2012 14:46, schrieb Susanne Wunsch:

> 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
>
```
