Subject: Re: formations of roolinfstocks
Posted by Joerg von Lingen on Tue, 24 Feb 2004 10:57:48 GMT
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Hallo.

I am worked on the rolling stock scheme the last months incorporating
several new elements according suggestions. I hope to be able to publish
the scheme in a couple of days. Here some remarks on your suggestions:

> 1. We have no engine cars. (like tram or metro in Europe.)
>   So we use "wagon" and "passenger" elements for all rollingstocks.
>   We would like to add 3 attributes of technical specifications
>   to the "passenger" element.
>   'maxTractEffort','resistFactor' and 'rotMassFactor'
'resistFactor' and 'rotMassFactor' has been added to element 'wagon', thus
it can be used for passenger and freight wagons. However, the
'maxTractEffort' is characteristic for motored cars only, therefore it is
not sensible to appear for trailor cars.

> 3. We hope "rs" element have a key index attribute like
>   'rsType' because all rollingstocks have their unique
>   ID numbers in our systems.
Yes, the 'rs' element comprises a 'rsID' to have a unique identifier for
reference.

> 2. And we have some services for 1 rollingstock. Now we have
>   1 attribute 'service' for 1 rollingstock, it is useful for
>   us if it is repeatable.
> 4. Our trains are composed fixed some rollingstocks, so
>   we manage them by unit of train compositions called
>   formations, not by unit of rollingstocks.
>   So we hope the elements for the formations. Now we
>   are planning the "formations" element which is at the
>   same level to "rollingstocks" element. Our draft
>   files are at
>   https://www.jrsi.co.jp/railml/trainFormationJ/
>   which are included over 1 to 3 items.
>   trainFormationJ.xsd.xml --- scheme difinition file
>   please get it and rename to trainFormation.xsd
>   trainFormationJ.xml --- example data file
>   trainFormationJ.txt --- an explanation file
According your proposal I have enhanced to scheme:
- 'class' element (general data of vehicle) now optional
  reference via 'rsID' attribute of 'rs' element
- two branches under 'railml': 'rollingstock' & 'formations'
  'formations' contains all data related to a train as a set of 'rs'
elements

- 'trainResistance' element has been moved into 'formation' branch as it is
  train related
- attribute 'tunnelFactor' has been moved from 'rs' to 'trainResistance'
- for all elements containing a 'math' element the 'valueTable' element was
  added as alternative, i.e. both possibilities are optional
- consequent use of attribute type decimal for any floating point value
- attribute 'rotMass' at 'rs' deleted, but 'rotMassFactor' at 'wagon'
added
  (rotating mass for non-motored axles)
- attribute 'resistFactor' at 'wagon' added
  'rotMassFactor' and 'resistFactor' can now be used for motored cars
  ('propulsion') and non-motored cars ('wagon').

Best regards,

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