Subject: Platforms and ramps for railML 2.2
Posted by Christian Rahmig on Thu, 22 Mar 2012 21:19:09 GMT
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Hello everyone,

considering the Trac ticket #122 [1], we are thinking about the introduction of a datatype for platforms and ramps with the next release 2.2. So, this is how it may look like:

1. <trackElements> will be extended with a new element named <serviceSection> for modelling platforms, ramps and related facilities.

2. The new element <serviceSection> describes the part ("section") of a track, which can be used for the exchange of passengers, goods or similar.

3. Attributes for this new element include:
   - position information: defines the starting position and direction of the serviceSection
   - length: the section length which is defined as the actually usable length (NOT the physically existing platform/ramp which can be longer)
   - height: the objects's height in mm above rails (for feasible types only)
   - type: enumeration of
     "platform" (passanger platform)
     "ramp" (ramp for loading / unloading goods)
     "maintenance" (maintenance facilities e. g. in a depot)
     "loadingFacility" (Goods can be (un-)loaded from the wagon's top / underfloor)
     "cleaning" (washing facility for cars and engines)
     "fueling" (facility for re-fuelling of engines)
     "parking" (section for parking of rolling stock)
     "preheating" (electricity or steam for pre-heating purposes)
     "other"
   - side: right, left (seen in positive mileage direction)

4. Each <serviceSection> can have multiple types. Tracks with platforms on both sides need two <serviceSection> elements to force the definition of different platform names.

5. Additional semantics:
   - name: the name contains the platform number (e.g. "3")
   - The associated OCP can be de-referenced from the OCP's <trackGroup>

It would be nice to hear your opinion about this model approach. Are there any important parameters missing?

Best regards.

[1] https://trac.assembla.com/railML/ticket/122

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