

Dear Sebastian,

welcome to the railML forum!

Am 25.04.2018 um 15:16 schrieb Sébastien Laroche:

- > Hi,
- > I have looked the simple example Step-by-Step
- > (050118_railML_SimpleExample_v07.zip) for RailML 3.1 and
- > ticket 104. I was wondering how the viewer was able to
- > decide the location of a symbol (above or under a track) or
- > what tells platform 1 and 2 to be between tracks instead of
- > being outside like the other? Is there additional
- > spotLocation data defined elsewhere, other section or the
- > viewer can make other deduction only by the data in the
- > example? Can an infrastructure be rendered only by a
- > LinearPositionSystem or we need at least one
- > screenPositioningSystems?
- > Have a great day.
- >

The Simple Example described in the tutorial is missing information about the lateral position of an element with reference to the underlying topology.

(Please note: the following example refers to Simple Example visualization v0.7 distributed with the Tutorial document 1.0, because that's the one you used, right? In the meantime, there is already a v0.8 from January 22, 2018, distributed with the Tutorial document 1.1)

So, the platform edge "2" in "Bf Arnau" (right side of NetElement "ne01") should look like this:

```
<platformEdge id="ple01" height="550">
  <linearLocation id="ple01_lloc01" applicationDirection="both">
    <associatedElement netElementRef="ne_a01" intrinsicCoordBegin="0.2"
intrinsicCoordEnd="0.6" keepsOrientation="true">
      <linearCoordinateBegin measure="100.0"
positioningSystemRef="lps01" lateralOffset="1.7"/>
      <linearCoordinateEnd measure="300.0" positioningSystemRef="lps01"
lateralOffset="1.7"/>
    </associatedElement>
  </linearLocation>
  <name name="2" language="de"/>
  <length type="physical" value="200.00" validForDirection="both"/>
</platformEdge>
```

</platformEdge>

And the platform edge "2" in "Bf Cstadt" (left side of NetElement "ne01") should look like this:

```
<platformEdge id="ple03" height="550">
  <linearLocation id="ple03_lloc01" applicationDirection="both">
    <associatedElement netElementRef="ne_b01" intrinsicCoordBegin="0.4"
intrinsicCoordEnd="0.8" keepsOrientation="true">
      <linearCoordinateBegin measure="4700.0"
positioningSystemRef="lps01" lateralOffset="-1.7"/>
      <linearCoordinateEnd measure="4900.0"
positioningSystemRef="lps01" lateralOffset="-1.7"/>
    </associatedElement>
  </linearLocation>
  <name name="2" language="de"/>
  <length type="physical" value="200.00" validForDirection="both"/>
</platformEdge>
```

We will foresee this modification in the next update of the Simple Example.

Regarding your question about the rendering, I would like to hear the answers from the users: some of them may tell that it is possible to visualize a railway network just on the basis of the described topology while others will insist on requiring screen coordinates. The railML format thus is open to model it both ways depending on the needs. Which of the solutions do you prefer?

Best regards
Christian

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