Subject: Visual positionning in step-by-step example
Posted by Sébastien Laroche on Wed, 25 Apr 2018 13:16:24 GMT
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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.

Subject: Re: Visual positionning in step-by-step example
Posted by christian.rahmig on Mon, 30 Apr 2018 14:21:19 GMT
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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 underlaying 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>
```

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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Subject: Re: Visual positionning in step-by-step example
Posted by Sébastien Laroche on Thu, 03 May 2018 12:44:36 GMT
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Hi Christian,

Yes, I used the 0.7 version of the example. Regarding the rendering, I think we will used both positioning system at the same time, but we are in early analysis phase.

Thank you for the precision and have a good day.

Subject: Re: Visual positionning in step-by-step example
Posted by Larissa Zhuchyi on Mon, 03 Jul 2023 15:16:43 GMT
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Dear all

This a gentle reminder that because of a constant process of changes and fixes, currently, the example of version 11 is published at railML.org [1].

Since the 7th version, we added some more kilometer values, axle counters, speed signalling and many more (see changelog).

Please keep in mind that version 11 does not incorporate all the recent developments either. These are coming in the next version. Also, we acknowledge that as of summer 2023 the example data of railML 3.2 is missing, but we will do our best to provide it as soon as possible.

[1] https://www.railml.org/en/user/exampledata.html

Sincerely,
Larysa Zhuchyi