Subject: [railML3] Designator for NetElements
Posted by christian.rahmig on Mon, 17 Jan 2022 13:16:22 GMT
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Dear all,

within the ETCS use case working group we discussed about adding a designator child element for the topology base element <netElement> (see [1]). So far, a <designator> is only available for all elements within <functionalInfrastructure>, e.g. balises, levelCrossings etc.

The requirement has already been filed in railML development Git system [2].

Please communicate your additional requirements and needs for a <designator> child element in <netElement> here in the forum.

[1] https:// www.railml.org/en/event-reader/railml-is-etcs-telco-2021-10- 18.html
[2] https://development.railml.org/railml/version3/-/issues/476

Thank you very much and best regards
Christian

Subject: Re: [railML3] Designator for NetElements
Posted by christian.rahmig on Mon, 21 Feb 2022 13:43:43 GMT
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Dear all,

after discussion among the railML coordinators, we moved the issue from railML 3 to RTM [1]. However, the central question remains: how shall the <designator> be used? Where do the values come from?

[1] https://development.railml.org/railml/railtopomodel/-/issues/1

Best regards
Christian

Subject: Re: [railML3] Designator for NetElements
Posted by Karl-Friedemann Jerosch on Wed, 16 Mar 2022 12:04:42 GMT
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Similar to the application of the designator in "functionalInfrastructure" or "assetsForInterlocking", we would like to introduce the <designator> also for the RTM <netElement>.

a) If a railML-file is available as input to a tool chain of independent systems, this could provide a common reference for the tools.

Example:

<netElement id="ne_206" length="7889">
  <designator register="_tool_01" entry="STC-T101_T201_T301" description="common edge name in all tools"/>
  ...
</netElement>

b) On the other hand, if railML files from different tools needs to be combined and no input-reference is available, then it is helpful to have an information of the element's name in each tool.

Example:

<netElement id="ne_206" length="7889">
  <designator register="_tool_01" entry="STC-T101_T201_T301" description="edge name in tool_01"/>
  <designator register="_tool_02" entry="STC-P01_Track1_P03" description="edge name in tool_02"/>
  ...
</netElement>

Subject: Re: [railML3] Designator for NetElements
Posted by Milan Wölke on Mon, 04 Apr 2022 16:01:22 GMT
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Hi Karl-Friedemann,

Im really not sure if this approach is going in the right direction. After all the netElement layerof the infrastructure forms an abstract graph on which to place the real world elements, which already include designators. Im not sure if names of elements of this abstract graph should be exchanged as part of the standard. Shouldnt an edge in this graph be defined by its neighboring elements of the functional infrastructure? Otherwise why to split an edge?
Additionally Im not convinced that the designator is really the right tool for this. After all the idea for the designator was to specify a register that is commonly known. The underscore register was intended as an exception, as far as I know. Modelling a designator here would invert this understanding.

My 3 cents.

Best regards, Milan
