Subject: Single and double derailer
Posted by Georg Boasson on Fri, 11 Feb 2022 10:14:05 GMT
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A derailer can be of different types. In Norway we differentiate between a derailer connected to one single rail and a derailer connected to both rails operating in parallel. The derailer is defined as one object in the infrastructure asset management. An attribute added in the <derailIS> might be a possible solution to differentiate between different types of derailers.
Suggestion: New attribute to the <derailerIS> in railML3:
• derailerType: Type of derailer equipment: possible values are single and double

Subject: Re: Single and double derailer
Posted by Georg Boasson on Fri, 11 Feb 2022 12:36:26 GMT
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It seems that our double derailer always is located inside a switch and therefore connected to 2 different tracks, but with the same control (see attached picture). My question will therefore be how to model this double derailer in railML3. Two <switchIS> elements with refrence to 1 <switckIL> element?

```
File Attachments
1) Double derailer.JPG, downloaded 146 times
```

Subject: Re: Single and double derailer
Posted by Martin Zien on Wed, 09 Mar 2022 14:29:38 GMT
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According to our discussion in last work groupmeeting ETCS:
- Introduce an attribute "type" with options "singleDerailer" & "doubleDerailer"
- A doubleDerailer would then have to be modeled with two (spot)location-entries - each related to the affected netElement

Subject: Re: Single and double derailer
Posted by Georg Boasson on Thu, 10 Mar 2022 08:44:58 GMT
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A solution in UML has been proposed by Jörg von Lingen. See attached file.

```
File Attachments
1) Proposed solution.pdf, downloaded 135 times
```

Subject: Re: Single and double derailer
Posted by Jörg von Lingen on Fri, 11 Mar 2022 01:24:22 GMT
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Dear all,

with the new type attribute in <derailerIS> I would prefer the solution with one object <derailerIS> and one object <derailerIL>.

```
<!—infrastructure layer -->
<infrastructure>
....
 <derailerIS id="dris01" type="doubleDerailer">
   <spotLocation .../>
   <spotLocation .../>
 </derailerIS>
....
</infrastructure>

<!—Interlocking layer - ->
<interlocking>
....
 <derailerIL id="dril01">
   <refersTo ref=dris01"/>
   <lockedTrack ref="trk231"/>
   <lockedTrack ref="trk232"/>
 </derailerIL>
....
</interlocking>
```

Best regards,
Joerg v. Lingen - Interlocking Coordinator

Subject: Re: Single and double derailer
Posted by christian.rahmig on Fri, 11 Mar 2022 07:57:30 GMT
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Dear all,

I filed a Git issue for this topic [1].

[1] https://development.railml.org/railml/version3/-/issues/495

Best regards
Christian