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Subject: Route Indicator

Posted by [Heidrun Jost](#) on Tue, 27 Aug 2019 09:00:59 GMT

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Dear all,

the Human-Man-Interface (HMI) of interlocking systems usually has some logical elements not related to physical objects which are only used for indication or commanding.

But they need to be known to interlocking. One variant are the "route indicators". For certain types of interlocking we need route indicators for route begin and route end.

These indicators will be displayed on the HMI to show the status of the route (active or inactive).

Is it possible to extend the data model of railML 3.x in that way?

Best regards,

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Heidrun Jost  
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Transportation Systems  
Thales Deutschland GmbH

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Subject: Re: Route Indicator

Posted by [Jörg von Lingen](#) on Tue, 27 Aug 2019 10:56:40 GMT

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Dear all,

in addition to Heidrun's description please find here an example of such indicators (with numbers 1&2). They can be positioned in the path of a route or aside a signal at the route start or end. In relay interlockings with graphical operator desk they were additional lamps but nowadays in software they are just small graphical objects expressing the particular status of the related route.

It is conceivable to model them as individual objects in AssetsForIL and refer to them from <routeEntry> or <routeExit>

<assetsForIL>

```
<routeStatusIndicators>
  <routeStatusIndicator id="ind1" elementNumber="0347" positionInRoute="start"/>
  <routeStatusIndicator id="ind2" elementNumber="0348" positionInRoute="end"/>
</routeStatusIndicators>
</assetsForIL>
```

```
<route id="IL_Z33Ab9ZZwY2AeMOCAuTBRD1a">
  <routeEntry id="entry1">
    <refersTo ref="IL_OEQD4IWYU28zmtNROcrW79"/>
    <hasIndicator ref="ind1">
  </routeEntry>
  <routeExit id="exit1">
    <refersTo ref="IL_wLQttVlq052WuiHZD3O9Br8"/>
    <hasIndicator ref="ind2">
    <hasOverlap ref="IL_Z5BQ1SWZDUMTekloAgZDaFZZob"/>
  </routeExit>
</route>
```

Would you see this as an extension useful for more than one user?

Regards,

Jörg von Lingen - Interlocking Coordinator

Heidrun Jost wrote on 27.08.2019 11:00:

> Dear all,

>

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> logical elements not related to physical objects which are only used for  
> indication or commanding.

>

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> route (active or inactive).

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>

> Best regards,

>

## File Attachments

1) [RouteIndicators.jpg](#), downloaded 419 times

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