
Subject: speed change in 'both' directions

Posted by [Susanne Wunsch railML](#) on Mon, 19 Apr 2010 10:43:47 GMT

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What does an import filter do, if it gets an dir="both" attribute in 'speedChange'?

km ->

0-----400-----800

km/h ->

80-----120-----

<- km/h

-----100-----120

unambiguously defined with dir="up/down":

```
<rail:speedChange id="sc0" pos="0" vMax="80" dir="up"/>
<rail:speedChange id="sc1" pos="400" vMax="120" dir="up"/>
<rail:speedChange id="sc2" pos="800" vMax="120" dir="down"/>
<rail:speedChange id="sc3" pos="400" vMax="100" dir="down"/>
```

But if somebody wants to use dir="both" for the track section between pos=400 and pos=800, where speed restriction is 120 km/h in _both_ directions, how to use it?

```
<rail:speedChange id="sc0" pos="0" vMax="80" dir="up"/>
<rail:speedChange id="sc1" pos="400" vMax="120" dir="both"/>
<rail:speedChange id="sc3" pos="400" vMax="100" dir="down"/>
```

That obviously can't work! There are duplicated but conflicting data for pos=400.

Other possibility:

```
<rail:speedChange id="sc0" pos="0" vMax="80" dir="up"/>
<rail:speedChange id="sc1" pos="400" vMax="120" dir="both"/>
<rail:speedChange id="sc3" pos="0" vMax="100" dir="down"/>
```

That also doesn't define, what the example shows: now in pos=0 100km/h starts downwards, that means no-where!

What's the problem?

The 'dir' attribute applies to a change point, but with the perspective of a railway engineer it should apply to a track section instead of a point.

How do you use it? What do you think about this issue?

Any comments would be appreciated.

Kind regards,
Susanne

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Susanne Wunsch
Schema Coordinator: railML.common

Subject: Re: speed change in 'both' directions
Posted by [Christian Rahmig](#) on Sun, 16 Sep 2012 18:16:39 GMT
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Hello Susanne and anyone interested,

> What does an import filter do, if it gets an dir="both" attribute in
> 'speedChange'?

with railML 2.2 we limit the possible values for the direction attribute of a <speedChange>. As defined in [1] and [2] a <speedChange> is connected with a certain direction "up" or "down". Other values are not used.

[1] <https://trac.assembla.com/railML/ticket/62>

[2] <http://www.railml.org/forum/ro/index.php?group=1&offset=0&thread=60>

Regards

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Christian Rahmig
railML.infrastructure coordinator
