

---

Subject: speed change in 'both' directions

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

[View Forum Message](#) <> [Reply to Message](#)

---

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

--

Susanne Wunsch  
Schema Coordinator: railML.common

---