
Subject: Re: Introduction of speedChangeGroups required?
Posted by [Matthias Hengartner](#) on Fri, 14 Oct 2005 14:33:15 GMT
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Hello,

>> My original idea was to leave the original <speedChange>-element and add the
>> <speedChangeGroup>-element as an additional possibility (similar to
>> signal/balise groups).
>
> Hmm... two different elements for almost the same purpose?

So it would be compatible to V1.0. And the case where vMax of only one train category changes could be modelled a bit simpler... But I agree, it's not urgently necessary to have both elements.

> That points me to a slightly more general question. Image the following
> static speed profile for a train of an arbitrary train category:

```
>  
>  
>  
> ^ v  
> |  
> |  
> | 80 km/h  
> +-----+  
> |  
> |  
> | 40 km/h  
> +-----+  
>  
>  
>  
>  
>  
>  
> +-----|-----> s  
>           s0  
>  
>     ---> "up"-direction  
>  
>  
>
```

> Which railML-elements would you introduce at position s0?
>
> A speed change to 40 km/h valid in up-direction?
> Plus a speed change to 80 km/h in down-direction?

- >
- > A speed change to 40 km/h with implicit assumption of a speed change to
- > 80 km/h in opposite direction? (Attention: speed changes are often not
- > "symmetrically")
- >
- > An extended <speedChange>-element with two v-attributes: vMaxUp,
- > vMaxDown? This would be incompatible to V1.0, btw!
- >
- > Anything else?

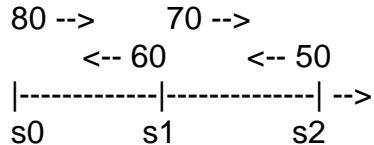
[[Sorry, no time at the moment to answer this question in English...]]

<german>

Ja daran habe ich auch schon rumstudiert...

der Geschwindigkeit relativ zur Gleisrichtung (A) oder auf die Fahrtrichtung, in welche die Geschwindigkeit gilt, (B) bezieht - oder

Eine Strecke mit zwei Abschnitten mit pro Richtung verschiedenen vMax (am



modelliert [1]:

```

s0: <speedChange vMax="80" dir="up">
s1: <speedChange vMax="70" dir="up">
s1: <speedChange vMax="60" dir="down">
s2: <speedChange vMax="50" dir="down">
  
```

auch die Fahrtrichtung (B).

```

s0: <speedChange vMax="80" dir="up">
s0: <speedChange vMax="60" dir="down">
s1: <speedChange vMax="70" dir="up">
s1: <speedChange vMax="50" dir="down">
  
```

Version [1] ist meiner Meinung nach etwas "sauberer" (da das dir-Attribut hier gleich gebraucht wird wie bei anderen xxChange-Elementen [***]).
Version [2] ist bringt wohl bei der Implementierung von Import/Export-Filttern einige Vorteile.

[***] Wobei <speedChange> soweit mir jetzt gerade bewusst ist das einzige xxChange-Element ist, das asymetrisch sein kann!

</german>

- > The more I think about this example, the more I guess we need not only a
- > clear definition and documentation of the SYNTAX, but also of the
- > SEMANTICS...

I fully agree with you in this point, totally, extremely, without any restrictions, ... :-)

I hope, there are not more questions than before?!

Have a nice weekend everybody,
Matthias

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