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Subject: Re: Speed Panels: types and reference to <speedChange>  
Posted by [Christian Rahmig](#) on Sat, 10 Nov 2012 12:12:05 GMT  
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Dear Susanne and other railML users,

>> In the trac ticket [2] I proposed the  
>> following categories and ask for your approval/denial/addition:  
>>  
>> - speed,  
>  
> The main problem is that all "traditional signals" are more or less  
> "switchable speed signals" for certain ranges.  
>  
> Maybe we can distinct between "pure fixed speed signals" and "switchable  
> speed signals" with country-specific signal aspects.

As you mentioned in your example, it may look like this:  
<speedSignal kind="announcement" switchable="false" speedChangeRef="sc1" />  
All information about the country specific signal aspects are more  
connected with the operational view of the signal.

>> - etcs,  
>  
> \* Fixed marker boards  
>  
> \* light signals indicating a new movement authority (for ETCS level 1)  
>  
> \* (level crossing signals), likely don't exist  
>  
> \* no balises or balise groups, but they may transfer the "traditional  
> signal aspect" as "speed restriction for a certain range".

Example:

<etcsSignal kind="execution" switchable="false" level="1" />

>> - levelCrossing,  
>  
> several kinds of signals for ringing the bell, whistle, announcing,  
> activating the level crossing ...

Example:

<levelCrossingSignal type="whistle" />

>> - gsm,  
>  
> more general: trainRadio  
>

- > \* fixed train radio signals indicating a channel
- >
- > \* fixed GSM signals indicating an GSM-R-equipped area, also the
- > negation indicating a non-GSM-R-equipped area, maybe with an
- > attribute to "enter"/"leave", also used for a "radio hole"

Example:

```
<trainRadioSignal switchable="false" type="enter" />
```

- >> - catenary
- >
- > \* no catenary section
- >
- > \* no current section / main power switch off
- >
- > \* lower pantograph section
- >
- > \* additional signal (de: ICE-Schaltmerkhilfe)

Example:

```
<catenarySignal type="lowerPantograph" />
```

- > - trainProtectionSystem
- >
- > \* indication a block number (de: LZB-Blockkennzeichen)

Example:

```
<trainProtectionSystemSignal />
```

- > - line
- >
- > \* indicating the line number

Example:

```
<lineSignal lineNumber="1234" />
```

- > - milepost (de:Hektometertafel)
- >
- > \* indicating the mileage of a track, often fixed at a pole

Example:

```
<milepostSignal value="42.0" />
```

- > - braking
- >
- > \* non-stopping section
- >
- > \* no regenerative braking

>  
> \* no eddy-current braking  
>  
> \* no magnetic-shoe braking

Example:

```
<brakingSignal type="nonStoppingSection" />
```

>> - signalingSystem

Use the <trainProtectionSystemSignal> instead.

Does this concept please everybody's needs at least for a railML 2.2?

Regards

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Christian Rahmig  
railML.infrastructure coordinator

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