

Dear Torben,

Am 18.02.2019 um 11:26 schrieb Torben Brand:

- > [...] I would suggest grouping all signal in
- > standard sub elements. These can of course be extended.

Sounds good, let's have a look at the issue in detail and combine it with a proposal:

- > [...]
- > Suggested signal sub elements (groups of signals):
- > • Announcement: Announcement by the train of its
- > presence. Can be with different signals. Usually blowing the
- > whistle (boolean value). Can be defined for one or multiple
- > purpose (boolean: levelCrossing, halt, etc.)

```
<isAnnouncementSignal>  
@type = {"whistle", "horn", ...}  
@refersToElement = {reference to level crossing, halt, etc.}
```

- > • Border: Indicating a level transition. Type start/end.
- > The system attribute defines the type of level transition
- > (ATC, CTC, ETCS, Conventional/optical).

```
<isSystemBorderSignal>?
```

- > • catenary

```
<isCatenarySignal>  
.... have it already
```

- > • danger: grouping all types of warning signals:
- > avalanche, wind, frost gate, bridge, etc.

```
<isDangerSignal>  
Is a fouling point (clearance post) also a danger signal?
```

- > • gradient: indicating falling/rising gradient and other
- > info.
- > • Info: general design info. Like arrows, invalid boards,
- > and info panels.

summarize both in <isInformationSignal>

> • level crossing

<isLevelCrossingSignal>  
.... have it already

> • main: all route related signals  
> • movement: all signals giving an indication of the  
> movement that are not main or shunting signals (line  
> signals, derailleurs, switch and crossing indicators)

<isTrainMovementSignal>  
This includes main signals, distant signals, repeaters...

> • plow: orders for handling the equipment on the train.  
> Here the plow.

<isVehicleEquipmentSignal>?  
@type = {snowplowUp, snowplowDown, ...}

> • Position: mileposts and distance signals (f.i. to level  
> crossings)

<isPositionSignal>  
@refersToPositioningSystem  
@isMilepost

> • Shunting: shunting related signals

integrate in <isTrainMovementSignal>  
Some countries don't distinguish between shunting and train movements.

> • Speed

<isSpeedSignal>  
.... have it already

- stop post

<isStopPost>  
.... have it already

Best regards  
Christian

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