


```
<state disabled="true" operatingPeriodRef="op_May">
```

```
<state disabled="true" operatingPeriodRef="op_July">
```

or

```
<state disabled="true" operatingPeriodRef="op_May-July">
```

```
<state disabled="enabled" operatingPeriodRef="op_June">
```

may both be treated as the same. With the second solution, there may be again the problem of sequence: The different order of the two rows may result in a difference meaning. Therefore, we possibly would need a 'sequence' or 'priority' attribute or such again.

To avoid this redundancy, and to avoid the 'sequence' attribute, I would prefer to discard the attribute 'disabled' and to rename the element <state> into <disabled> or such.

- > Currently the <from> and <to> elements may additionally refer to an
- > 'ocp' via an 'ocpRef' attribute. Maybe that should be dropped because of
- > redundancy reasons.

>

- > But otherwise that may be helpful if the exact blocking locations
- > (relative positions) are known but differ from the ocp locations. The
- > ocp references may be used as a hint, not overwriting the exact
- > locations.

I think this is not redundancy:

To refer to ocp's says: The writing software does not know the exact positions. Any movement between these ocp's is not allowed; anyway where exactly the reason for that is situated.

To refer to exact positions says: The writing software knows the exact positions. The track between these positions is not available.

The difference lies in the question "how much of the stations at the beginning/end of the blocking is usable": An <ocp> element normally is situated at the mileage position of the `_middle_` of the corresponding station (middle of the platforms). Can you use the "half" of the station from the middle of the platforms into the direction of the blocking?

Let's assume ocp 'ABC' lies at relative position km 15.432.

```
<state disabled="true">
```

```
<from pos="15432"/>
```

```
<to pos="23456"/>
```

```
</state>
```

means: You cannot move even one meter behind km 15.432 (the middle of the station), so you cannot enter this station from below 15.432 at the normal

kind. (Even half of the platform seems to be closed. There is a "Schutzhalttafel" exactly at the middle of the station.)

```
<state disabled="true">  
  <from ocpRef='ABC'/>  
  <to ocpRef='DEF'/>  
</state>
```

means: The track section between ABC and DEF is blocked. There is here no information on a blocking inside the station of ABC. You can assume it is normally usable.

I would prefer to keep this difference in any kind: In some cases, we do need the possibility to name the exact positions of the "Schutzhalttafeln" either for reasons of the "building trade" (BETRA) or to allow shunting movements. In many other cases (e. g. timetabling), we do not know the exact positions but we have to describe that a section of track is closed.

Of course there would be other, more explicit solutions to express this difference. May be "more explicit" would be better. Anyway, I am satisfied if it is possible at least in any kind.

> The 'line blocking' has to be defined through the 'track blocking'.

+1

>> Such a reference would - as far as I know - the first time we would
>> create such a "forward-reference". Forward in the meaning of "from
>> infrastructure to timetable". We already have many references from
>> timetable to infrastructure which are "natural" since one `_first_`
>> needs infrastructure `_before_` one can operate a train.

>

> We already put such a "forward-reference" into the infrastructure
> subschema with the implementation of speed profiles.

>

> The TSR (temporary speed restrictions, de:Langsamfahrstellen) also
> refer to an 'operatingPeriod' from the timetable subschema.

Ok, good to have this clarified as a general question: Forward references are not forbidden.

> For a future version we would like to move the operating periods to the
> common part of railML, in order to provide a better "straight-forward"
> structure. But this is a change for the next major release.

But why? Some sentences before, you did clarify: Forward references are not forbidden, sequential reading is not possible. So anybody must accept and implement this to come from now to the next major release. Why should

we change it afterwards?

I would welcome this to avoid forward references just to make things easier and to get a higher acceptance of RailML. But more importantly, I would prefer consequence and not to switch between the philosophies. A `_stable_` philosophy creates much more acceptance than one which is only theoretically better.

So if you do not want (or cannot) avoid forward references now and in general, you do not need to avoid them later.

Best regards,
Dirk.
