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Subject: [railML2] extension suggestion for the element <state> for open time period

Posted by [Torben Brand](#) on Mon, 08 Mar 2021 10:50:44 GMT

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Background:

The element <state> is part of railML2.4 and is used to define the status of infrastructure pieces with a given time frame for a certain duration. It is a sub-element that can be placed under nearly all infrastructure elements.

Suggestion:

The element <state> should be enhanced to be able to function outside the range of <operatingPeriod>.

In railML2.4, the timeframe for state is defined for days with the usage of @startDate and @endDate in <operatingPeriod> and more refined for the time within those days with the @startTime, @endTime and @endDayOffset in <state> . This model is restricted by:

- The timeframe must be closed. I.e. both @startDate and @endDate in <operatingPeriod> must be used.
- A timeframe of the <timetablePeriod> must be set.
- The timeframe of <operatingPeriod> must be within the timeframe of the <timetablePeriod>.
- The <timetablePeriod> can be as short or as long as required.

This restricts the UC requirements for:

- open time period: only a start date or end date is set
- time period outside the <timetablePeriod> and thus outside the <operatingPeriod>

For more details see document "railML2.4nor Infrastructure Documentation" (<https://www.jernbanedirektoratet.no/railML>), version 1.4, 17.12.2020, point 4.14.

Jernbanedirektoratet suggest adding in railML2.5 the attributes to <state>:

@startDate: First day the stated status is valid for. If no @startTime is set the status is valid from the beginning of the day.

@endDate: Last day the stated status is valid for. If no @endTime is set the status is valid until the end of the day.

Suggestion for syntactic constraint:

@operatingPeriodRef: shall only be used in cases of recurring time periods, e.g. a certain element is closed each Tuesday

What does the community think?

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