
Subject: Re: Steckenunterbruch/line blocking
Posted by on Mon, 03 Dec 2012 19:56:43 GMT
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Dear Joachim and all others,

concerning the suggestion of line blockings in RailML (previous mentioned at <infrastructure> by Renato Kluser), here comes my suggestion for a RailML structure:

First, the easy things:

```
<trackBlockings>  
  <trackBlocking id=... name=... description=... remarks=... />  
  - further properties see below -  
</trackBlocking>  
</trackBlockings>
```

Now to the real properties. These could be simple attributes of <trackBlocking> from my side but could also be sub-elements. Sub-elements may be preferred to declare constraints but from my side, the constraints are not too much difficult so Wiki should be enough for them.

```
<trackRefs>, trackRef=...
```

- reference to one or more <track>.id
- at least one must be given
- more than one is typical for a blocking of all tracks of a multiple-track line ("line blocking" was original intended)

```
fromOcpRef=..., toOcpRef=...
```

- compulsory attributes
- references to <ocp>.id

validity Period: should be a "choice" of exactly one of the following two options:

a) <repeating operatingPeriodRef=... startTime|startAfterTrainRef =... endTime|untilBeforeTrainRef=... />

- operatingPeriodRef is compulsory
- startTime/startAfterTrainRef and endTime/ untilBeforeTrainRef are to be used "disjunctive"
- startAfterTrainRef/untilBeforeTrainRef are references to <train>.id
- The blocking is to be repeated at each of the days of the <operatingPeriod> from start time to end time or trains. The trains must operate at the given days.

b) <non-stop startDate= endDate= startTime|startAfterTrainRef =... endTime|untilBeforeTrainRef=... />

- startDate and endDate are compulsory
- startTime/startAfterTrainRef and endTime/ untilBeforeTrainRef are to be used "disjunctive"
- startAfterTrainRef/untilBeforeTrainRef are references to <train>.id
- The blocking happens one time non-stop throughout from startDate+startTime/train until endDate+endTime/train. The trains must operate at the given days.

Example for a repeating one: Regular bridge opening times of a swing bridge

```
<trackBlockings>
  <trackBlocking id=... name='Afternoon-opening' description='Summer-only
afternoon opening for sailing ships with high masts' remarks='Added by
Dirk as an example' fromOcpRef='ocp_WSRR' toOcpRef='ocp_WAF' />
  <trackRef ref='track_80.6311.1' />
  <repeating operatingPeriodRef='opp_Summer' startTime='16:30'
endTime='17:15' />
</trackBlocking>
</trackBlockings>
```

Example for a non-stop one: Maintenance works

```
<trackBlockings>
  <trackBlocking id=... name='Maintenance works' description='Ballasting
with Plasser & Theurer' remarks='Please provide a replacement bus'
fromOcpRef='ocp_Br' toOcpRef='ocp_Vi' />
  <trackRef ref='track_85.140.1' />
  <trackRef ref='track_85.140.2' />
  <non-stop startDate='2012-07-15' endDate='2012-07-29'
startAfterTrainRef='tr_R567' endTime='04:00' />
</trackBlocking>
</trackBlockings>
```

Best regards,
Dirk.

Am 03.12.2012, 17:25 Uhr, schrieb Kluser Renato <renato.kluser@mgbahn.ch>:

- > ENGLISH SUMMARY: The MGB railway uses railML 2.0
- > for data exchange from our timetabling system to
- > our disposition system. Currently we need an
- > extension of the standard to transfer line
- > blockings from one system to another.

>
> Hallo railML-Partner,
>
> wir, die Matterhorn Gotthard Bahn (MGB),
> betreiben ein 144 km langes Meterspurnetz im
> SÄ¼den der Schweiz. Zum Datenaustausch zwischen
> unserem Fahrplansystem FBS und dem
> Kundeninformations- und Dispositionssystem KIS nutzen wir railML 2.0.
>
> Nun mÄ¼chten wir auch noch die in FBS verwalteten
> StreckenunterbrÄ¼che an das Dispositionssystem
> Ä¼bergeben und schlagen daher eine Erweiterung des
> railML-Standards vor. Die Abbildung folgende
> Arten von UnterbrÄ¼chen wÄ¼re fÄ¼r uns unerlÄ¼sslich:
>
> - Strecke von Betriebsstelle BRMG (Brig) bis Visp
> (VISP) gesperrt vom 15. Juli 2012 22.00 Uhr bis
> 29. Juli 2012 4.00 Uhr; Grund: Bauarbeiten am Gleis
> - Strecke von Oberwald (OBW) bis Realp (REAL)
> gesperrt im Zeitraum vom 3. Oktober 2012 bis 16.
> Oktober 2012; jeweils zwischen 22.45 Uhr bis 3.45
> Uhr am Folgetag; Grund: Fahrleitungsrevision
> - Strecke 140 von km 22,790 bis 26,186 gesperrt
> bis 3. Dezember 2012; 16.00 Uhr
>
> Eine Erweiterung der Eigenschaften eines
> Unterbruchs (z.B. 'nur fÄ¼r elektrische
> Fahrzeuge', 'nur fÄ¼r Fahrzeuge des Typs ...'
> usw.) und zusÄ¼tzliche Informationen wie Busersatz
> usw. wÄ¼re denkbar, ist aber fÄ¼r uns nicht dringlich.
>
> Beste GrÄ¼sse,
>
> Renato Kluser
> Betrieb
> Verkehrsplanung und Sicherheit
>
> Matterhorn Gotthard Bahn
> Bahnhofplatz 7
> CH-3900 Brig
> <http://www.mgbahn.ch>
>

Subject: Re: Steckenunterbruch/line blocking
Posted by [Christian Rahmig](#) on Wed, 05 Dec 2012 10:24:53 GMT
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Dear Dirk,

Am 03.12.2012 21:13, schrieb Dirk Bräuer:

> please follow me to:

>

> [1]

> <http://www.railml.org/forum/ro/index.php?group=2&offset=0&thread=93&id=350>

for getting a connection to another forum, it is better to use the followup-tag. However, I still think, that we are talking about an infrastructure aspect and I hope the next lines can clarify my opinion:

> First, the easy things:

>

> <trackBlockings>

> <trackBlocking id=... name=... description=... remarks=... />

> - further properties see below -

> </trackBlocking>

> </trackBlockings>

Your idea limits the blocking to tracks, which is quite a static approach and, furthermore, need to be extended very soon. Despite a certain track, also a signal or a balise or a switch etc. can be disabled in the sense of "is not available for operation". Therefore, I suggest to define the "disabled" feature as a child element for all the relevant infrastructure objects, e.g. tracks, switches, signals.

> Now to the real properties. These could be simple attributes of

> <trackBlocking> from my side but could also be sub-elements.

> Sub-elements may be preferred to declare constraints but from my side,

> the constraints are not too much difficult so Wiki should be enough for

> them.

>

> <trackRefs>, trackRef=...

> - reference to one or more <track>.id

> - at least one must be given

> - more than one is typical for a blocking of all tracks of a

> multiple-track line ("line blocking" was original intended)

>

> fromOcpRef=..., toOcpRef=...

> - compulsory attributes

> - references to <ocp>.id

Again, the attributes that you propose here, are only valid for track blockings. We may think about allowing for definition of points on tracks, from where on the track is blocked. However, since the "disabled" sub-element will be available for all relevant tracks, there is no need to define a length of the blocking section in form of a

"from-to" attribute group.

- > validity Period: should be a "choice" of exactly one of the following
- > two options:
- >
- > a) <repeating operatingPeriodRef=... startTime|startAfterTrainRef =...
> endTime|untilBeforeTrainRef=... />
- > - operatingPeriodRef is compulsory
- > - startTime/startAfterTrainRef and endTime/ untilBeforeTrainRef are to
> be used "disjunctive"
- > - startAfterTrainRef/untilBeforeTrainRef are references to <train>.id
- > - The blocking is to be repeated at each of the days of the
> <operatingPeriod> from start time to end time or trains. The trains must
> operate at the given days.
- >
- > b) <non-stop startDate= endDate= startTime|startAfterTrainRef =...
> endTime|untilBeforeTrainRef=... />
- > - startDate and endDate are compulsory
- > - startTime/startAfterTrainRef and endTime/ untilBeforeTrainRef are to
> be used "disjunctive"
- > - startAfterTrainRef/untilBeforeTrainRef are references to <train>.id
- > - The blocking happens one time non-stop throughout from
> startDate+startTime/train until endDate+endTime/train. The trains must
> operate at the given days.

The definition of time periods during which the infrastructure is disabled is not the task of the infrastructure schema. Here, I suggest to just implement a reference from the <disabled> element to an operating period.

Further comments appreciated...

Regards

--

Christian Rahmig
railML.infrastructure coordinator
