Subject: Re: [railML3] transfer times for connections
Posted by Milan Wölke   on Tue, 01 Mar 2022 10:18:48 GMT
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Hi all,

to continue this topic I have prepared a draft of what we could add in timetable:

Basically we would add this directly below <timetable> as a list of <connectionTransferTime> elements. Each would refer to a startLocation and to a set of transferLocations. I used locationRef, platformEdgeRef and trackRef as values to identify the location because we are using exactly this set of values to identify where a train is stopping in timetable. As Dirk pointed out transfer times may change from time to time, thats why I added an optional reference to a timetable period to the <connectionTransferTime> element. The whole structure would look like this in XML:

```
<timetable>
  <timetablePeriods>
   <timetablePeriod id="ttp-1" startDate="2022-01-01" endDate="2022-06-30"/>
  </timetablePeriods>
  <connectionTransferTimes>
   <connectionTransferTime timetablePeriodRef="ttp-1">
    <startLocation locationRef="op-1" trackRef="tr-4"/>
    <transferLocations>
     <transferLocation locationRef="op-1" trackRef="tr-3" duration="PT3M"/>
     <transferLocation locationRef="op-1" trackRef="tr-2" duration="PT3M30S"/>
     <transferLocation locationRef="op-1" trackRef="tr-1" duration="PT4M"/>
     <transferLocation locationRef="op-2" duration="PT7M"/> <!--some nearby OP, no matter
which track over there-->
    </transferLocations>
   </connectionTransferTime>
   <connectionTransferTime timetablePeriodRef="ttp-1">
    <startLocation locationRef="op-2"/>
    <transferLocations>
     <transferLocation locationRef="op-1" trackRef="tr-4" duration="PT7M"/>
     <transferLocation locationRef="op-1" trackRef="tr-3" duration="PT5M"/>
     <transferLocation locationRef="op-1" trackRef="tr-2" duration="PT5M"/>
     <transferLocation locationRef="op-1" trackRef="tr-1" duration="PT5M"/>
    </transferLocations>
   </connectionTransferTime>
  </connectionTransferTimes>
</timetable>
```

Semantically the idea would be that this matric of transfertimes would be the basic configuration of

transfer times. A connection can always specify a transfertime that is different from this and would override the basic configuration that way.

What do you think of this? If you have ideas on how to improve the modelling or have additional requirements that need considering, please let me know.

Thanks in advance.

Best regards, Milan