

railML-Meeting in Braunschweig 26.03.2014

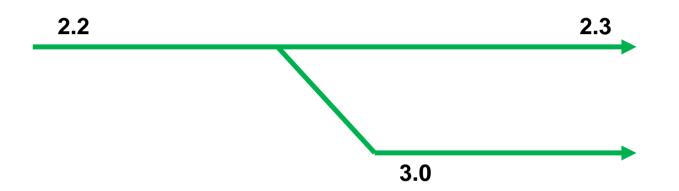
## **Timetable – current developments**



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#### paradigm for future versions 3.0 and 2.3

- backward compatibility of 2.3 with 2.2
- major changes in 3.0 only
- small enhancements additionally in 2.3 possible



## **Timetable** issues for future implementation



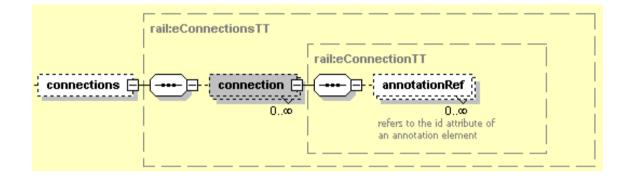
Ticket	Summary	Status	Owner	Туре	Priority	Milestone 🔺
#138	Beispiel ins Wiki fuer Fahrten ueber Mitternacht	assigned	joachim.rubroeder	enhancement	normal	Version 2.2
#224	train annotations	assigned	joachim.rubroeder	task	normal	Version 2.2
#229	Clarify semantics of 'additionalTrainNumber'	new	joachim.rubroeder	task	normal	Version 2.2
#21	Better Documentation inside schemas	new	joachim.rubroeder	task	normal	Version 2.x
#36	FormationTT with rail waybill (de: Frachtbrief)	new	joachim.rubroeder	enhancement	normal	Version 2.x
#37	FormationTT with dangerous goods indicator (de: Gefahrgutkennzeichen)	new	joachim.rubroeder	enhancement	normal	Version 2.x
#147	UIC Train Transport ID	new	joachim.rubroeder	enhancement	normal	Version 2.x
#170	Delay causes	new	joachim.rubroeder	enhancement	normal	Version 2.x
#188	"Actual" train data, "real-time changes"	new	joachim.rubroeder	enhancement	normal	Version 2.x
#220	passenger numbers along a section	new	joachim.rubroeder	enhancement	normal	Version 2.x
#1	Emergency Brake Bridging	new	joachim.rubroeder	enhancement	normal	Version 3.0
#110	Camel case in enumeration values	new	joachim.rubroeder	task	low	Version 3.0
#141	rename/changes in TT	new	joachim.rubroeder	task	normal	Version 3.0
#146	Element for train grouping	new	joachim.rubroeder	enhancement	normal	Version 3.0
#176	Degrate sub-element operatingPeriodRef to attribute	new	joachim.rubroeder	enhancement	normal	Version 3.0
#179	Harmonize length values	new	joachim.rubroeder	task	normal	Version 3.0
#187	Abstract operating periods	new	joachim.rubroeder	enhancement	normal	Version 3.0

### **Further developments:**

- New ideas initiated in forum: <a href="http://www.railml.org/forum/ro/index.php">http://www.railml.org/forum/ro/index.php</a>
- Current status assembled in tracking tickets see: <a href="http://trac.railml.org/report/2">http://trac.railml.org/report/2</a>
- Detailed discussions carried out in working group with interested users: 11.11.2013 and 17.03.2014

## **Timetable** connections, further requirements





#### <connections> <connection trainRef="t\_801200\_376\_J\_2" connOperation="IsWaitingFor" ocpRef="nFF" connType="operational"/> </connections>

Name	Туре	Use
trainRef	rail:tGenericRef	required
minConnTime	xs:duration	
maxConnTime	xs: duration	
connOperation	rail:tConnOperation	
connType	rail:tConnType	
ocpRef	rail:tGenericRef	
trainPartRef	rail:tGenericRef	
any ##other		

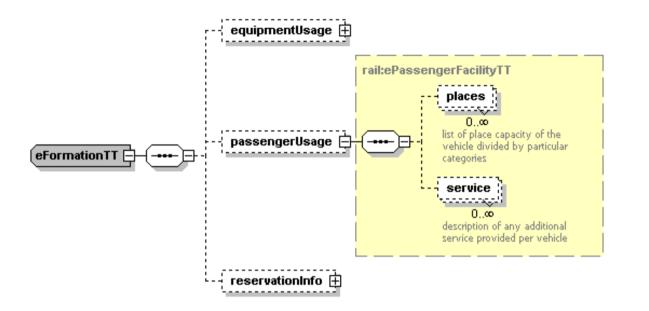
#### connections: #244, #165, for 3.0 and maybe 2.3

- restriction for a certain operationPeriod
- optional trainRef for trains outside file
- not-to-be-communicated connections



## **Timetable** attributes for formationTT





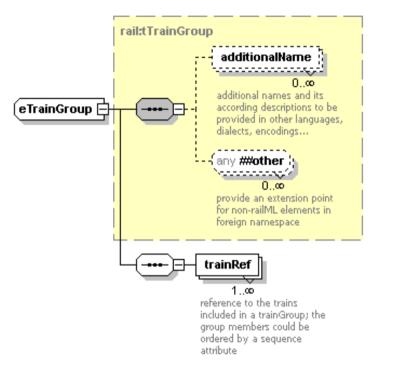
#### passengerUsage: #243, for 3.0 and maybe 2.3

- restriction for a certain operationPeriod
- compatibility with TAP/TAF-TSI (Codelists B.4.7161, B.4.9039)
- harmonized list of attributes (e.g. familyCarriage, mealAtSeat, ...)

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## **Timetable** train identification, grouping trains





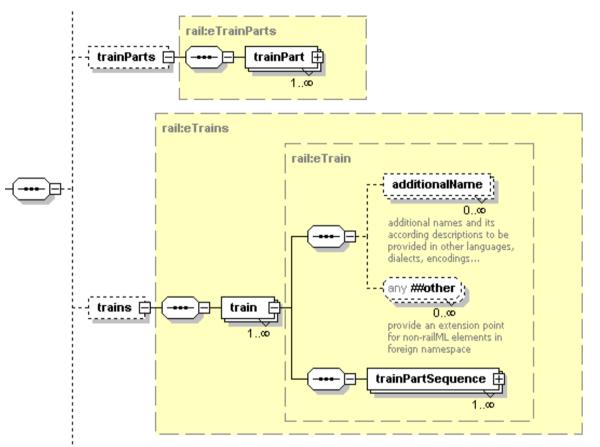
#### train identification: #245 for 3.0, needs further discussion

- same trainNumber in different planning horizons
- same trainNumber for different operation days

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## **Timetable** cancellations and timetable parts



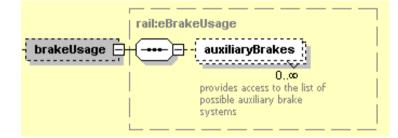


### changes and cancellations: #247 for 3.0, maybe 2.3

- changed trains in a separate export file
- canceled trains indicated by flag on train level
- partially cancellations indicated by flag on trainPart level

## **Timetable multiple** technical data





Name	Туре	Use
brakeType	rail:tBrakeType	required
airBrakeApplicationPosition	rail:tAirBrakeApplicationPosition	
regularBrakeMass	rail:tWeightTons	
emergencyBrakeMass	rail:tWeightTons	
maxDeceleration	rail:tAccelerationMeterPerSquareSec	
meanDeceleration	rail:tAccelerationMeterPerSquareSec	
brakePercentage	rail:tBrakePercentage	
regularBrakePercentage	rail:tBrakePercentage	
emergencyBrakePercentage	rail:tBrakePercentage	
ny ##other		

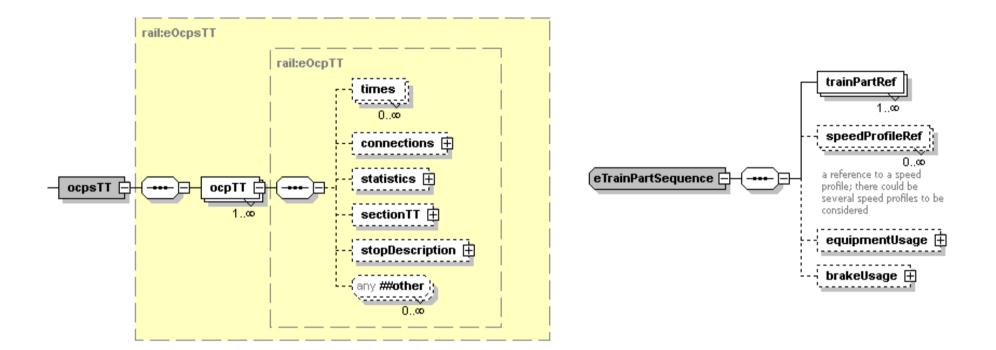
#### multiple technical data: #248 for 3.0, needs further discussion

- e.g. braking percentage vs. min braking percentage
- both values are needed in parallel



## **Timetable reusable** itinaries





#### reusable itinaries: #240, #246 for 3.0, further discussion

- ocpsTT independently defined
- referenced within trainPartSequence instead trainPart
- avoid redundancy for modelling variants



**Timetable** Questions and comments?



# Thank you for your attention!

