

RailML Updates

RailML-Developments in the areas of
Rollingstock and Interlocking

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RailML Updates



Changes in Rollingstock for edition 2.2

Change of train protection system list (#169) – including ETCS

```
<trainProtectionSystems xmlns="http://www.railml.org/lists">
  <trainProtectionSystemsAtTrack>
    <trainProtectionSystem code="ETCS">
      <name />
      <validFor>
        <vehicleSystem />
      </validFor>
    </trainProtectionSystem>
  </trainProtectionSystemsAtTrack>
  <trainProtectionSystemsOnVehicle>
    <trainProtectionSystem code="ETCS">
      <name />
      <validFor>
        <trackSystem />
      </validFor>
    </trainProtectionSystem>
  </trainProtectionSystemsOnVehicle>
</trainProtectionSystems>
</xs:simpleType>
```

L/1

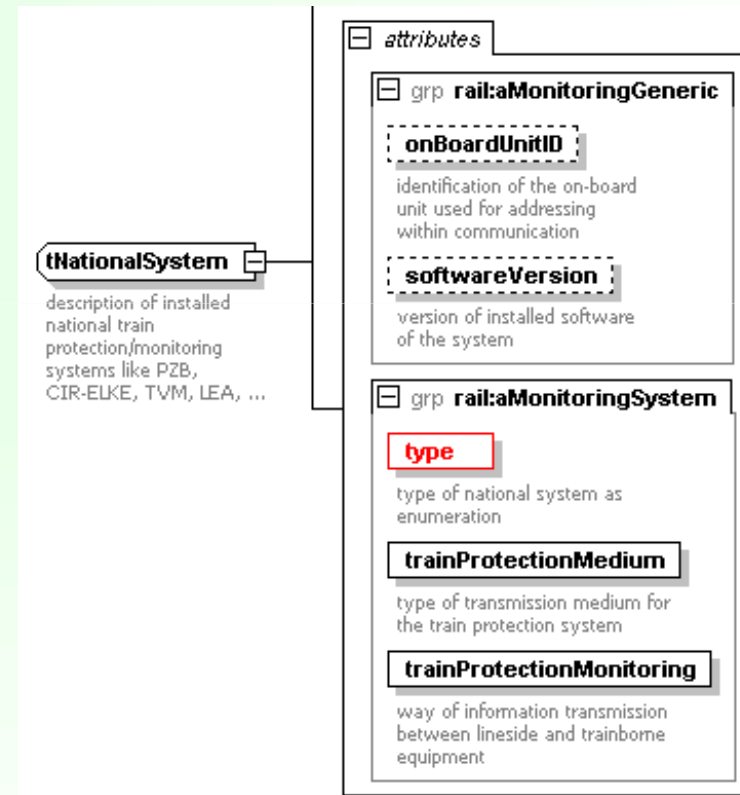
- rail:etcs** ⊕ capabilities with respect to European Train Control System
- rail:nationalSystem** ⊕ 0..∞ list of installed national train protection/control systems
- rail:trainRadio** ⊕ 0..∞ list of installed train radio systems for communication
- rail:otherEquipment** ⊕ 0..∞ list of other (non-safety) installed train equipment

RailML Updates



Change of train protection system list (#175) - TrainProtectionSystems.xml

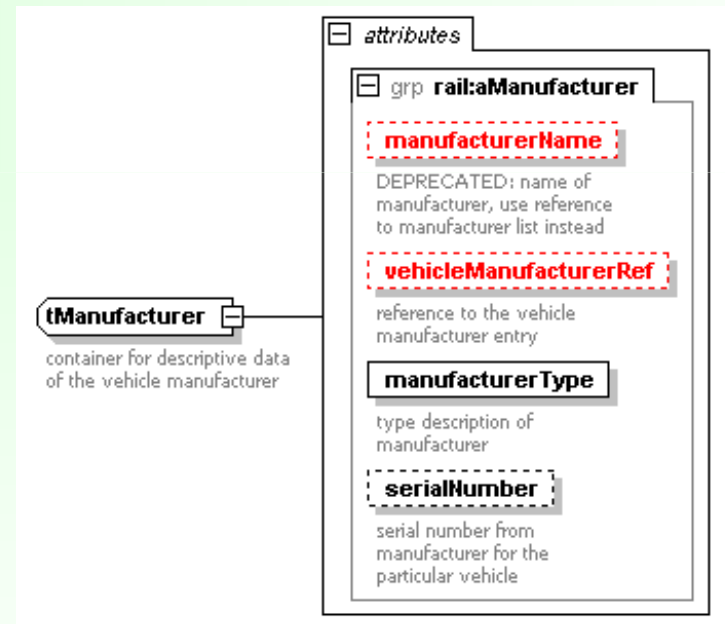
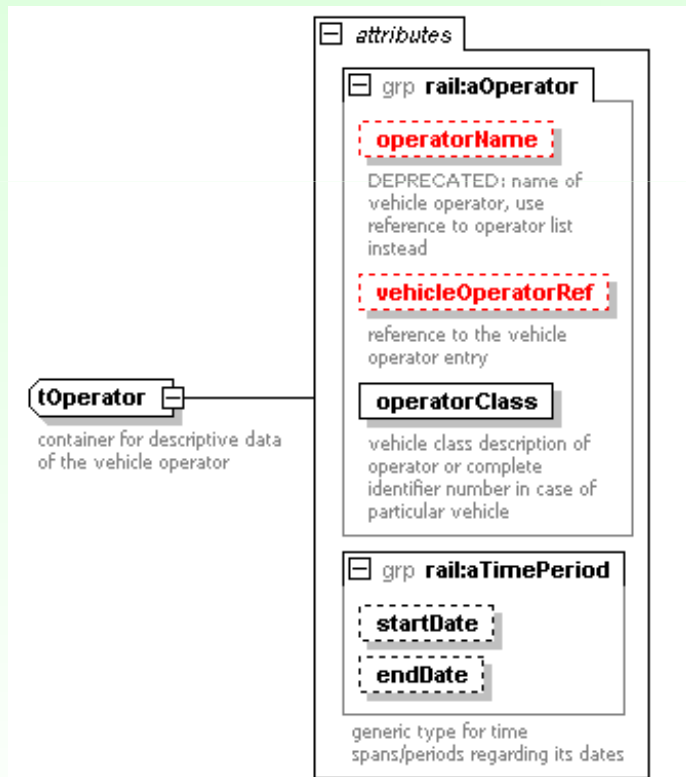
```
<trainProtectionSystems xmlns="http://www.railml.org/lists">
  <trainProtectionSystemsAtTrack>
    <trainProtectionSystem code="Indusi">
      <name />
      <validFor>
        <vehicleSystem>Indusi54</vehicleSystem>
        <vehicleSystem>Indusi60</vehicleSystem>
        <vehicleSystem>Indusi60R</vehicleSystem>
        <vehicleSystem>PZ80</vehicleSystem>
        <vehicleSystem>PZB90</vehicleSystem>
      </validFor>
    </trainProtectionSystem>
  </trainProtectionSystemsAtTrack>
  <trainProtectionSystemsOnVehicle>
    <trainProtectionSystem code="Indusi54">
      <name />
      <validFor>
        <trackSystem>Indusi</trackSystem>
      </validFor>
    </trainProtectionSystem>
    <trainProtectionSystem code="Indusi60">
      <name />
      <validFor>
        <trackSystem>Indusi</trackSystem>
      </validFor>
    </trainProtectionSystem>
  </trainProtectionSystemsOnVehicle>
</trainProtectionSystems>
```



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definition of roles (#178) – reference to separate list

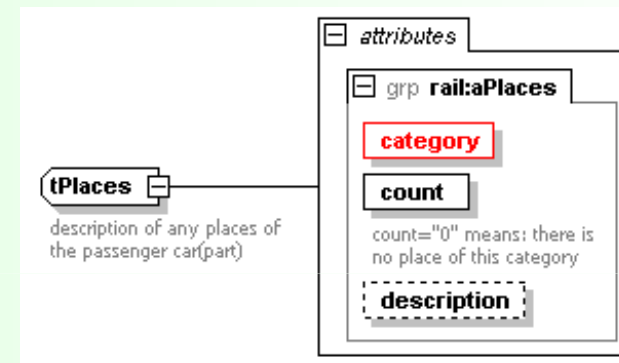


RailML Updates



Extension of enumeration list tPlaceCategory (#184)

```
<xs:simpleType name="tPlaceCategory">
  <xs:union>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="class1" />
        <xs:enumeration value="class2" />
        <xs:enumeration value="class3" />
        <xs:enumeration value="standing" />
        <xs:enumeration value="wheelchair" />
        <xs:enumeration value="bicycle" />
        <xs:enumeration value="couchette" />
        <xs:enumeration value="bed" />
        <xs:enumeration value="chair" />
        <xs:enumeration value="bistro" />
        <xs:enumeration value="restaurant" />
        <xs:enumeration value="foldingSeat" />
        <xs:enumeration value="impairedToilet" />
        <xs:enumeration value="toilet" />
        <xs:enumeration value="businessCompartment" />
        <xs:enumeration value="familyCompartment" />
        <xs:enumeration value="toddlerCompartment" />
      </xs:restriction>
    </xs:simpleType>
    <xs:simpleType>
      <xs:restriction base="rail:tOtherEnumerationValue" />
    </xs:simpleType>
  </xs:union>
</xs:simpleType>
```



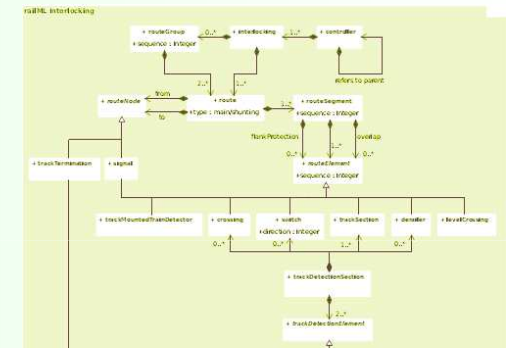
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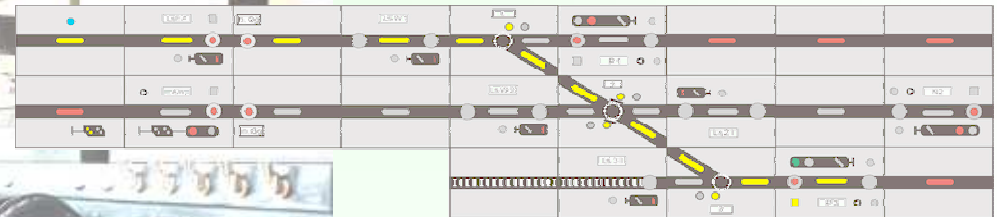
Workshop for Interlocking extension in Infrastructure

Meeting in Zurich in November 2012

- clarification of needs for data exchange
- common components of any route
- basic definition of route structure as start
- draft schema of this base definition



Fahrplz	Fahrstraßenabschlüsse							Weichen								
	A-1	A-2	A-3	AA-1	AA-2	AA-3	PA-1	P2-1	P2-2	P3-1	P3-2	1	2	3	4	5
A-1												+	+	+	+	
A-2												+	+	+	+	
A-3												+	+	+	+	
AA-1												+	+	+	+	
AA-2												+	+	+	+	
AA-3												+	+	+	+	
PA-1												+	+	+	+	
P1-1												+	+	+	+	
P1-2												+	+	+	+	
P2-1												+	+	+	+	
P2-2												+	+	+	+	
P3-1												+	+	+	+	
P3-2												+	+	+	+	



RailML Updates



Workshop for Interlocking extension in Infrastructure

Meeting in Berlin in February 2013

- clear description of terms needed for common understanding
- how handle the partners the description of signal aspects and signal dependencies
- separate XML mapping tables for signal aspects and dependencies
- mini schema for mapping tables to enforce similar structure
- additional attributes according to intended list in wiki

