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Subject: Connections to external trains

Posted by [Joachim.Rubröder](#) on Wed, 03 Feb 2016 10:57:27 GMT

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Conclusion of the discussion during the timetable-developer meeting on 22.01.2016 in Berlin:

Dear railML users.

We were looking for a way to reference a connection to an external train (bus, ship, etc.) that is not listed as train within the same railML file.

The idea is to have a sub element <externalReferences> with a choice of different elements to reference an external train via:

- \* unique tafTapTsiTrainID
- \* trainNumber (and maybe the related IM)
- \* lineNumber, e.g. a connection to the trains of the line 'S6'
- \* information, e.g. 'Connection to Berlin via Wolfsburg'

Do you have any remarks on this approach?

Kind regards,  
Joachim Rubröder

The XSD would look like this:

```
<xs:complexType name="eConnectionTT">
  <xs:complexContent>
    <xs:extension base="rail:tConnectionTT">
      <xs:sequence>
        <xs:element name="externalReferences" minOccurs="0">
          <xs:complexType>
            <xs:choice maxOccurs="4">
              <xs:element name="tafTapTsiTrainID"
type="rail:eTapTsiTransportOperationalIdentifier"/>
              <xs:element name="trainNumber">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element name="organizationalUnitBinding"
type="rail:eOrganizationalUnitBinding" minOccurs="0">
                      <xs:annotation>
                        <xs:documentation
source="http://wiki.railml.org/index.php?title=TT:organizationalUnitBinding"/>
                      </xs:annotation>
                    </xs:element>
                  </xs:sequence>
                  <xs:attribute name="trainNumber" type="xs:string"/>
                </xs:complexType>
              </xs:element>
              <xs:element name="lineNumber">
                <xs:complexType>
```

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        <xs:attribute name="lineNumber" type="xs:string"/>
      </xs:complexType>
    </xs:element>
    <xs:element name="information">
      <xs:complexType>
        <xs:attribute name="description" type="xs:string">
          <xs:annotation>
            <xs:documentation>Enter the description of the connection - e.g. 'Connection to
Berlin via Wolfsburg'</xs:documentation>
          </xs:annotation>
        </xs:attribute>
      </xs:complexType>
    </xs:element>
  </xs:choice>
</xs:complexType>
</xs:element>
  <xs:element name="annotationRef" type="rail:tAnnotationRef" minOccurs="0"
maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation>refers to the id attribute of an annotation
element</xs:documentation>
    <xs:documentation
source="http://wiki.railml.org/index.php?title=TT:annotationRef_connection"/>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

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