
Subject: [railml3.1] cleanup of empty sequences

Posted by [Thomas Nygreen JBD](#) on Thu, 03 Jan 2019 19:39:33 GMT

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Dear all,

There are a lot of (=124) empty <sequence/>s in the 3.1-RC. They have no function, are annoying when viewing the schemas in a tree view, and they conceal bad constructs. In most cases the empty sequences can simply be removed, but in some others, the construct should also be changed.

One example:

In common3.xsd:

```
<xs:element name="Metadata" type="rail3:Metadata"/>
<xs:complexType name="Metadata">
  <xs:annotation>
    <xs:documentation>This is the top level element for file metadata
information.</xs:documentation>
  </xs:annotation>
  <xs:complexContent>
    <xs:extension base="dc:elementContainer">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Referenced by the subelement of <railML> in rail3ml.xsd:

```
<xs:element name="metadata" type="rail3:Metadata" minOccurs="0" maxOccurs="1"/>
```

This is equivalent to simply:

In common3.xsd:

```
<xs:element name="metadata" type="dc:elementContainer">
  <xs:annotation>
    <xs:documentation>This is the top level element for file metadata
information.</xs:documentation>
  </xs:annotation>
</xs:element>
```

In rail3ml.xsd (note that I also changed to the normal Salami Slice way):

```
<xs:element name="metadata" ref="rail3:metadata" minOccurs="0" maxOccurs="1"/>
```
