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Subject: missing minOccurs="0" for <trainBrakeOperation>  
Posted by on Wed, 20 Jun 2018 12:42:46 GMT  
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Dear Joerg,

when using the current railML schemes, I noticed that the new (since rev. #721) element <trainBrakeOperation> is compulsory. I presume this is possibly a mistake. In rollingstock.xsd, line 861 there is a  
minOccurs="0"  
missing.

May I ask you to add this or do you really intend <trainBrakeOperation> to be compulsory?

Thank you,  
with best regards,  
Dirk.

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Subject: Re: missing minOccurs="0" for <trainBrakeOperation>  
Posted by [Joerg von Lingen](#) on Fri, 03 Aug 2018 03:29:46 GMT  
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Indeed it was mistake - see [808] (<https://trac.railml.org/changeset/808/railML>)

Dirk Bräuer wrote on 20.06.2018 14:42:

> Dear Joerg,  
>  
> when using the current railML schemes, I noticed that the new (since rev. #721) element  
> <trainBrakeOperation> is compulsory. I presume this is possibly a mistake. In rollingstock.xsd, line  
> 861 there is a  
> minOccurs="0"  
> missing.  
>  
> May I ask you to add this or do you really intend <trainBrakeOperation> to be compulsory?  
>  
> Thank you,  
> with best regards,  
> Dirk.  
>

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Subject: Re: missing minOccurs="0" for <trainBrakeOperation>  
Posted by on Mon, 01 Oct 2018 09:46:40 GMT  
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Dear Joerg and all other's,

at the last telephone conference, I was asked to check the new r2.4 <rollingstock> railML XSDs for more possible missing optionals.

So, I compared rollingstock.xsd and rollingstockTypes.xsd  
rev. 814 (RC 2.4)  
with  
rev. 611 (Original railML 2.3)  
and searched for new <xs:element> definitions without "minOccurs='0'".

I only found the one more: In rollingstock.xsd  
<xs:complexType name="eVehicleBrakes">  
  <xs:element name="vehicleBrakeOperation" type="rail:tBasicBrakeOperation"  
maxOccurs="unbounded">  
no "minOccurs='0'" occurs...

The "minOccurs='0'" is also missing at some new attributes but it seems to me that for attributes, it is not necessary (since older attributes also have none). (Sorry, I am not the best choice for this task since I lack some knowledge about XSDs.)

Joerg, please check this and, in case I am not mistaken, correct it for r2.4.

Please correct me in case I misunderstood or tell me what else should be done.

Best regards,  
Dirk.

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Subject: @minOccurs, @maxOccurs and @use  
Posted by [christian.rahmig](#) on Tue, 02 Oct 2018 11:18:15 GMT  
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Dear Dirk, dear all,

let me answer on behalf of Jörg:

elements... are by default mandatory (minOccurs="1" and maxOccurs="1") [1]

attributes... are by default optional (use="optional") [2]

Therefore, mandatory elements and optional attributes don't have to have mentioned properties.

For the following cases, properties have to be provided in the schema:

- \* optional elements occurring once: minOccurs="0"
- \* optional elements occurring up to n times: minOccurs="0" and maxOccurs="n" (with n being a positive number)
- \* mandatory elements occurring up to n times: maxOccurs="n" (with n

being a positive number)

\* mandatory attributes: use="required"

[1] [https://www.w3schools.com/xml/schema\\_complex\\_indicators.asp](https://www.w3schools.com/xml/schema_complex_indicators.asp)

[2] [https://www.w3schools.com/xml/schema\\_simple\\_attributes.asp](https://www.w3schools.com/xml/schema_simple_attributes.asp)

Best regards

Christian

--

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Am 01.10.2018 um 11:46 schrieb Dirk Bräuer:

> Dear Joerg and all other's,

>

> at the last telephone conference, I was asked to check the new r2.4 <rollingstock> railML XSDs for more possible missing optionals.

>

> So, I compared rollingstock.xsd and rollingstockTypes.xsd

> rev. 814 (RC 2.4)

> with

> rev. 611 (Original railML 2.3)

> and searched for new <xs:element> definitions without "minOccurs='0'".

>

> I only found the one more: In rollingstock.xsd

> <xs:complexType name="eVehicleBrakes">

>     <xs:element name="vehicleBrakeOperation" type="rail:tBasicBrakeOperation"  
maxOccurs="unbounded">

> no "minOccurs='0'" occurs...

>

> The "minOccurs='0'" is also missing at some new attributes but it seems to me that for attributes, it is not necessary (since older attributes also have none). (Sorry, I am not the best choice for this task since I lack some knowledge about XSDs.)

>

> Joerg, please check this and, in case I am not mistaken, correct it for r2.4.

>

> Please correct me in case I misunderstood or tell me what else should be done.

>

> Best regards,

> Dirk.

>

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Subject: Re: missing minOccurs="0" for <trainBrakeOperation>

Posted by [christian.rahmig](#) on Tue, 02 Oct 2018 11:25:11 GMT

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Dear Dirk, dear all,

Am 01.10.2018 um 11:46 schrieb Dirk Bräuer:

```
> [...] In rollingstock.xsd
> <xs:complexType name="eVehicleBrakes">
>   <xs:element name="vehicleBrakeOperation" type="rail:tBasicBrakeOperation"
maxOccurs="unbounded">
>   no "minOccurs='0'" occurs...
```

has been corrected. Thank you!

> The "minOccurs='0'" is also missing at some new attributes but it seems to me that for attributes, it is not necessary (since older attributes also have none). (Sorry, I am not the best choice for this task since I lack some knowledge about XSDs.)

For attributes, please use the property use="required" or use="optional" (default).

Best regards  
Christian

--

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