Subject: @minOccurs, @maxOccurs and @use Posted by christian.rahmig on Tue, 02 Oct 2018 11:18:15 GMT View Forum Message <> Reply to Message

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 occuring once: minOccurs="0"

* optional elements occuring up to n times: minOccurs="0" and maxOccurs="n" (with n being a positive number)

* mandatory elements occurinng 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

[2] 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.
- >

Subject: Re: @minOccurs, @maxOccurs and @use Posted by christian.rahmig on Thu, 04 Oct 2018 14:56:08 GMT View Forum Message <> Reply to Message

Dear all,

Am 02.10.2018 um 13:18 schrieb Christian Rahmig:

- > 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 occuring once: minOccurs="0"
- > * optional elements occuring up to n times: minOccurs="0" and
- > maxOccurs="n" (with n being a positive number)
- > * mandatory elements occurinng up to n times: maxOccurs="n" (with n
- > being a positive number)
- > * mandatory attributes: use="required"

A ticket [1] has been created with the aim to identify and delete all occurances of

- * minOccurs="1"
- * maxOccurs="1"
- * use="optional"

The ticket has been implemented with railML version 2.4.

[1] https://trac.railml.org/ticket/344

Best regards Christian

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