Subject: Re: New working draft of the infrastructure schema available Posted by Volker Knollmann on Wed, 13 Jun 2007 12:09:23 GMT

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For those of you in a hurry:

http://www.railml.org/genesis/infrastructure/drafts/r19/infr astructure_r19.xsd http://www.railml.org/genesis/infrastructure/drafts/r19/chan gelog.txt

Dear railML-Community,

I just prepared a new issue of the IS-Schema based on the feedback given by the other coordinators and by Heidrun Jost, who reported an error.

The error was related to the new xs:any-element, which has been introduced to allow easy schema extension.

Unfortunately, I used xs:any as follows:

```
<xs:element name="e1"/>
<xs:element name="e2"/>
<xs:any/>
```

This kind of usage is wrong, because the content model becomes ambiguous, because a file like

```
<e1/> <e2/> <e2/>
```

can be valid (the second e2 is part of xs:any) or invalid (the second e2 is an unallowed repetition of the first e2).

To avoid this ambiguity, I moved xs:any to a separate subtree like this:

```
<xs:element name="e1">
<xs:element name="e2">
<xs:element name="otherElements">
<xs:complexType>
<xs:sequence minOccurs="0" maxOccurs="unbounded">
<xs:any/>
</xs:sequence>
</xs:complexType>
```

So a file with customer specific extensions would look like this now:

```
<e1/><e2/>
```

<otherElements>
 <thisIsMyOwnElementAndICanDoWhateverIWant/>
</otherElements>

Due to this change, the customer elements are not at the same level as the "genuine" elements of railML, but I think this is more of a aesthetic issue than a real problem.

For all other changes, please take a look at the changelog file (see link above).

I'm looking forward to your comments!

Best regards, Volker Knollmann

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