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Subject: railML v3.1 beta released

Posted by [christian.rahmig](#) on Tue, 31 Oct 2017 22:35:24 GMT

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Dear railML community,

today the first public beta version of railML 3.1 has been released by railML.org [1]. This release marks the important intermediate result on the way to a new baseline of the railway data exchange format railML.

railML 3.1 beta is available for download on the railML website [2]. The ZIP file contains:

- \* the automatically generated HTML documentation with diagrams of the railML3 UML model,
- \* the automatically generated XSD export with the schema files, the codelists and an example file,
- \* the automatically generated XMI (v2.4.1) export

This beta release of railML 3.1 focuses on fulfilling the model requirements of the selected priority 1 use cases "Network Statement", "RINF Reporting" and "Schematic Track Plan" [3].

The resulting model covers the following aspects:

- \* generic topology model based on RailTopoModel v1.1 [4]
- \* standardized geographic positioning model using GML point and line string types
- \* powerful time dimension model covering needs from infrastructure and timetable domain
- \* modular structure of infrastructure scheme with flat element hierarchy to enable easy future model extensions
- \* detailed model of functional infrastructure, in particular:
  - lines and operational points
  - tracks, buffer stops, switches and crossings
  - electrification
  - overCrossings, underCrossings and levelCrossings
  - platforms, platformEdges and stoppingPlaces
  - signals, balises and trainProtectionElements
  - trainDetectionElements
  - trackbed parameters
- \* ...

I would like to thank all the "early users" who contributed to the development process by giving feedbacks and by challenging the model against the requirements: This model is your model ;-)

Last, but not least, I want to encourage everyone to join the ongoing development process and to provide feedback on the current railML v3.1 beta version. In order to enable open discussions, please write your

comments and questions directly into the railML (infrastructure) forum [5].

Thank you very much and best regards  
Christian Rahmig

- [1] <https://www.railml.org/en/public-relations/news/reader/railml-3-1-released.html>
- [2] <https://www.railml.org/en/download/schemes.html>
- [3] <http://wiki.railml.org/index.php?title=IS:UseCases>
- [4] <http://www.railtopomodel.org/en/homepage.html>
- [5] [https://www.railml.org/forum/index.php?t=thread&frm\\_id=4](https://www.railml.org/forum/index.php?t=thread&frm_id=4) &

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Subject: Re: railML v3.1 beta released  
Posted by [John Lutz](#) on Tue, 07 Nov 2017 09:52:50 GMT  
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Hello,

my name is John Lutz from UIC. I am Senior Rail Professional with 26 years' experience in Railway System Integration, IT Development, Data Exchange and IT Standardisation in a multi-modal environment. Served as TAF-TSI Deployment Manager for coordination of implementation activities including XML catalogue development, Master Plan creation and interoperability progress monitoring (January 2007 - December 2013).

I have noticed that in almost every instance of an element or type, you have 'dangling', mandatory sequences that have no child elements... Is this correct, or due to a problem in auto-generation of the schémas? This is the case in every railML schema published in version 3. If they serve no purpose (I don't see why they are there? then I would suggest that you please delete the empty sequences throughout all schémas.

Regards,

John Lutz  
Sr. Advisor

INTERNATIONAL UNION OF RAILWAYS  
16 rue Jean Rey - F-75015 Paris

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Subject: Re: railML v3.1 beta released

Posted by [christian.rahmig](#) on Wed, 08 Nov 2017 11:32:55 GMT

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Dear John,

thank you very much for your feedback.

Indeed, current railML v3.1 beta contains a number of empty sequences in elements, e.g. in <netRelation>, <platformEdge> or <horizontalCurve>. Although the schema is still syntactically valid with the empty sequences, it is our aim to remove them from the schema. The origin of the empty sequences is presumably to be found in the automatic generation process. I am going to create a Trac ticket for tracking and solving this issue.

Best regards

Christian

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Subject: Re: railML v3.1 beta released

Posted by [christian.rahmig](#) on Wed, 08 Nov 2017 11:46:54 GMT

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The link to the Trac ticket:

<https://trac.railml.org/ticket/314>

Am 08.11.2017 um 12:32 schrieb Christian Rahmig:

> Dear John,

>

> thank you very much for your feedback.

> Indeed, current railML v3.1 beta contains a number of empty  
> sequences in elements, e.g. in <netRelation>, <platformEdge>

> or <horizontalCurve>. Although the schema is still

> syntactically valid with the empty sequences, it is our aim

> to remove them from the schema. The origin of the empty

> sequences is presumably to be found in the automatic

> generation process. I am going to create a Trac ticket for

> tracking and solving this issue.

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> Best regards

> Christian

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