
Subject: Re: railml 2.3 Export only updated data from a data source

Posted by [christian.rahmig](#) on Fri, 24 Feb 2017 14:31:09 GMT

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Dear Morten,

welcome to the railML forum!

Am 20.02.2017 um 14:01 schrieb Morten Johansen:

- > [...]
- > Since only a small percent of the IS-data will have been
- > changed each time the IS-master data system is updated and
- > there is a need to make an export to the consuming systems
- > we would like to transfer only the data changed since the
- > last update.
- > Are there any best practices or does anybody have any
- > experience on how this best can be handled when using RailML
- > 2.2/2.3?
- > Best regards
- > Morten Johansen
- >

Your task clearly addresses the topic of time management and versioning. So far, railML is not able to explicitly model changes of infrastructure or timetable or any other information. A railML file usually contains a "snapshot" of the situation without any time restrictions. We are going to change this with the new major version railML v3. We will then introduce basic concepts of time validity that allow to distinguish between different states of infrastructure.

However, I consider the main factor for your problem being the exporting software. The exporter shall produce a railML file and it shall follow defined rules what to export. This means: It shall be a functionality of the exporting tool to specify an export being an "incremental export". However, the current implementation of railML does not really support this approach of "incremental exports" as the railML file structure is quite fixed and it is not possible to export only single components of the infrastructure, e.g. only the new equipment of a level crossing, without the underlying track and its connected topology.

Question to all: are you missing such a functionality in railML, too?
How do you solve the issue nowadays? Any comments appreciated...

Best regards
Christian

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Christian Rahmig - Infrastructure scheme coordinator

railML.org (Registry of Associations: VR 5750)

Phone Coordinator: +49 173 2714509; railML.org: +49 351 47582911

Altplauen 19h; 01187 Dresden; Germany www.railml.org
