Subject: Re: Embedded methods in objects Posted by christian.rahmig on Mon, 11 Feb 2019 14:58:55 GMT View Forum Message <> Reply to Message

Dear Claus.

Am 04.02.2019 um 19:27 schrieb Claus Feyling:

- > [...] We suggest that a new element called 'formula' is added to every object
- > in railML. The cardinality is 0..*, but just one such element will be
- > relevant for each attribute within the object. Deleting the object from
- > a model will also delete its formulas. The immediate purpose of such an
- > element is to allow standardisation of a versatile data structure based
- > on railML, where the object's behaviours are modelled along with their
- > static values. In this way, a railML model may be loaded into a host
- > system and then modified partly by entering new data values directly in
- > the object's attributes, partly by letting the objects calculate their
- > own values.

thank you very much for your ideas and input! The approach sounds interesting.

- > Formulas are associated with attributes, using the mandatory attribute
- > 'name'.
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- > The railML writing system decides whether to store attribute values
- > only, or attribute values as well as their formulas.
- > We suggest that the open source scripting language Lua is defined as the
- > default scripting language within railML.
- > We suggest that the default evaluation depth is 1, see more about this
- > below.
- > The purpose of including such definitions in railML is to allow a railML
- > writing system to store a model with formulas that can later be picked
- > up and used or further refined by another railML reading system.
- > As an example, the 'code' attribute of a switch may be associated with a
- > formula as follows in order to receive a computed value based on its
- > 'seq' attribute:

To be honest, I have not heard of such "formulas" before and consequently my know-how is very limited in this field. But how about the other railML users with export and import interfaces? Do you consider formulas as essential keystone for the railML standard and do you have experiences with "Lua" or similar approaches?

Any feedback is highly appreciated...

Best regards Christian

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