
Subject: Re: [railML3] loadingGauge element and definition of profile
Posted by [christian.rahmig](#) on Fri, 20 Jan 2023 08:17:33 GMT

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Dear Jorgen,

thank you very much for your input on semantic rules for usage of loadingGauge element. Following your detailed reasoning, everyone understood the proposed rules and there have been no objections or requests for modification. Following the approval, the semantic rules will be incorporated in the wiki page of the loadingGauge element.

Regarding the rules 2 and 3, your focus on the ETCS use case can be also extended to other use cases, e.g. Network Statement. Dear developers of the Network Statement working group, please comment here if you have a different opinion.

Thank you very much and best regards

Christian

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Am 05.07.2022 um 00:22 schrieb Jorgen Strandberg:

- > I propose these semantic rules for the loadingGauge element:
- > 1. Define at least one kinematicProfile subelement, or one staticProfile subelement, or set the @code value.
- > 2. For the ETCS use case, define one loadingGauge element per supported loading gauge profile.
- > 3. For the ETCS use case, set one of these @code values:
 - > "GA", "GB", "GC", "G1"
- >
- > Rationale:
- > The code attribute may only take one value, such as "GB",
- > but the ETCS variable M_LINEGAUGE can specify a combination of profiles, such as 0b00000110 meaning "GA" and "GB".
- > Hence, one loadingGauge element is needed for each profile that is suitable for the linear extension.
- >
- >
- > Background:
- >
- > This documentation exists in the schema and on the wiki
- > <<https://wiki3.railml.org/wiki/IS:loadingGauge>>:
- > code: code name of the train loading gauge; use value from
- > the separate codelist file

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> 'TrainClearanceGauges.xml'/trainClearanceGauge (optional;
> xs:string)
>
>
> At least these trainClearanceGauge elements are in
> 'TrainClearanceGauges.xml':
>
> <trainClearanceGauge code="GA">
>   <description>structure gauge GA according European
> standard</description>
>   <validFor>interoperable</validFor>
> </trainClearanceGauge>
> <trainClearanceGauge code="GB">
>   <description>structure gauge GB according European
> standard</description>
>   <validFor>interoperable</validFor>
> </trainClearanceGauge>
> <trainClearanceGauge code="GC">
>   <description>structure gauge GC according European
> standard</description>
>   <validFor>interoperable</validFor>
> </trainClearanceGauge>
> <trainClearanceGauge code="G1">
>   <description>Multilateral gauge or international gauge
> G1 other than GA, GB and GC as defined in European
> standard.</description>
>   <validFor>interoperable</validFor>
> </trainClearanceGauge>
> ..
>
>
> Those profile types are also the ones that are supported by
> ETCS and defined in SUBSET-026, v360 (see below).
>
> 7.5.1.67.1 M_LINEGAUGE
> Name      Line gauge
> Description  Defining which loading gauge(s) are permitted
> on a line (refer to TSI INF)
> Length of variable  8 bits
> Resolution/formula  Bitset
> Special/Reserved Values
>   xxxx xxx1  G1
>   xxxx xx1x  GA
>   xxxx x1xx  GB
>   xxxx 1xxx  GC
>   00000000  Spare
>   xxx1 xxxx  Spare
>   xx1x xxxx  Spare

```

> x1xx xxxx Spare
> 1xx xxxx Spare
