
Subject: SI units in railML 3.x

Posted by [Vasco Paul Kolmorgen](#) on Mon, 15 Jan 2018 10:07:57 GMT

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Dear all,

happy new year to all of you that I haven't met so far!

Following the railML 3.1 dissemination workshop we had last week in Berlin, we restarted the discussion about using SI units in railML whenever possible.

What does it mean:

SI units are defined as International System of Units [1] and their original purpose was to harmonize usage of physical units in various disciplines. For example, lengths are defined in metres, masses is kilogram and electric currents in ampere.

railML shall follow this SI approach based on a "golden rule": SI units shall be used everywhere except when common usage principles in the railway sector ("state of the art") define it differently. One example for such an exception: speeds are defined in km/h instead of m/s.

I would like you to name further exceptions by simply answering on this post. For example: how about the track gauge? Have it in metres (SI) or in mm (not SI)? The Trac ticket #317 [2] summarizes this issue.

[1] https://en.wikipedia.org/wiki/International_System_of_Units

[2] <https://trac.railml.org/ticket/317>

Thank you very much and best regards,

Vasco--

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