
Subject: Re: Different ways to model tractive effort
Posted by [Joerg von Lingen](#) on Mon, 14 Sep 2020 07:13:02 GMT
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Dear all,

it has been implemented for railML2.5 and described in wiki
http://wiki2.railml.org/wiki/RS:segmentTable_tractiveEffort

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Regards,
Jörg von Lingen - Rollingstock Coordinator

Thomas Nygreen wrote on 05.03.2019 14:20:

- > Dear all,
 - >
 - > The current railML2 valueTable could support any of the
 - > segmented functions listed by Laura and Jörg, if we for
 - > each row apply the formula
 - > $F = \text{Sum} (y_z * v^z)$ for all z
 - > where each value for z is given by columnHeader@zValue.
 - >
 - > If no column header is found and only one column is given,
 - > we would assume z = 0, meaning that F = y. This allows
 - > programs to keep listing the tractive effort for small speed
 - > steps.
 - >
 - > This approach would support any polynomial function, such as
 - > constant (only z=0), linear (0 and 1), quadratic (0, 1, 2)
 - > and cubic (0, 1, 2, 3), the simple hyperbolic (-1, 0) and
 - > quadratic hyperbolic (-2) listed by Laura and Jörg, and
 - > other simple rational functions where there is no shift of
 - > the x variable.
 - >
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