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 = 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.
>