Subject: Re: May I use z parameter for notch as engine tractiveEffort?
Posted by yutaka.manchu on Mon, 13 Oct 2014 22:23:47 GMT
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Dear JÃ¶rg,

 Thank you very much to write back to me!

Best regards,
Utah (Yutaka Manchu)

Joerg von Lingen wrote:
>
> Dear Utah,
>
> your assumption is correct. The structure of ValueTable allows to define a 3D matrix of values. The effort curve is
> normally given as effort vs. speed but there might be another parameter like notch position or line voltage etc to
> define a group of curves instead a single one.
>
> Best regards,
> Jï¿½rg von Lingen
>
> Yutaka Manchu wrote on 02.10.2014 09:40:
>> Dear All,
>>
>> Some engines have an acceleration/power control lever with several
>> notches.
>> Each notch limits the acceleration/power level of the engine.
>>
>> To express this notion, I'd like to confirm the correctness to use z
>> parameter of valueTable written in
>> " http://wiki.railml.org/index.php?title=RS:valueTable_tractiv eEffort", as
>> "'z' is the additional parameter extending the dependency to y = f(x,z)"
>> and "In case of several curves versus the x-coordinate there is the child
>> element <columnHeader>, which takes the values of the z-coordinate as
>> parameter for the array of curves.".
>>
>> According to "http://wiki.railml.org/index.php?title=RS:columnHeader", it
>> could be expressed as followings;
>>
>>   <vehicle id="ve_6000-Mc1" name="6000-Mc1" length="9.0" speed="60.0"
>> bruttoWeight="3145.8" bruttoAdhesionWeight="393.2">
>>   <engine>
>>   <propulsion id="peMotor" powerType="electric" power="1105000"
>> rotationMassFactor="1.0" description="Motor">
>>   <tractiveEffort>

```
>>          <valueTable xValueName="Speed" xValueUnit="km/h"
>> yValueName="Tractive Effort" yValueUnit="N" zValueName="Notch"
>> zValueUnit="1">
>>            <columnHeader zValue="1">
>>            </columnHeader>
>>            <valueLine xValue="0.0">
>>              <values yValue="5950.1" />
>>            </valueLine>
>>            <valueLine xValue="36.5">
>>              <values yValue="4200.0" />
>>            </valueLine>
>>             ...
>>
>>            <columnHeader zValue="2">
>>            </columnHeader>
>>            <valueLine xValue="0.0">
>>              <values yValue="10016.1" />
>>            </valueLine>
>>            <valueLine xValue="35.0">
>>              <values yValue="8200.0" />
>>            </valueLine>
>>             ...
>>
>>          </valueTable>
>>        </tractiveEffort>
>>      </propulsion>
>>    </engine>
>>  </vehicle>
>>
>>   May I ask you if my understanding is right?
>>
>> Best regards,
>> Utah (Yutaka Manchu)
>>
>
>
>
```

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----== posted via PHP Headliner ==----