Subject: Re: the use of @dir in railML.
Posted by Thomas Nygreen on Thu, 27 Feb 2020 18:08:27 GMT
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Dear Christian, Dear all,

It looks like we are finally near to closing this issue. I just have a few final questions/comments:

<lock> was introduced after I did my review of all elements with @dir. I suggest that we deprecate @dir also for <lock>.

We agree to deprecate @dir on <trackCircuitBorder>. But what about <trainDetector>? Are there axle counters that only detect axles going in one direction? I have a feeling that we should treat <trackCircuitBorder> and <trainDetector> the same way.

As I understand Christian's proposals, there will no longer be three different sets of values for @dir. All occurences will allow "up", "down" and "both". I think that is a good solution, as it also allows equal interpretation across elements of a missing @dir as unknown. I assume we will have to keep three different types in the XSD, where tLaxDirection will have two deprecated values ("unknown" and "none"), [the badly named] tDelimitedDirection will have one new value ("both") and one deprecated ("unknown") and tStrictDirection will have one new value ("both").

And then, finally, there are the <*Change> elements.

Den 13.01.2020 15:09, skrev Christian Rahmig:

- >>> By standard, the change elements' orientation (not their
- >>> application direction!) shall be always in direction of track
- >>> orientation (from trackBegin towards trackEnd).

Den 26.02.2020 11:05, skrev Christian Rahmig:

- > A change element always contains a change of a feature from
- > an old value to a new value. E.g. referring to an
- > <electrificationChange> there is a state of electrification
- > before the change as well as after the change. By setting
- > the "change element orientation" I want to specify that the
- > old value applies for the track until <*Change>@pos and the
- > new value (as provided by the change element) applies from
- > <*Change>@pos ongoing.

Just to make sure we are thinking alike here:

For the <*Change> elements where we deprecate @dir (axleWeightChange, clearanceGaugeChange, electrificationChange, gaugeChange, ownerChange, powerTransmissionChange and radiusChange) this means that the value is simply a property of the infrastructure, regardless of the direction of traffic. The new value given in the <*Change> element describes the infrastructure from the point it is placed (@pos) towards the track end. This is as documented in the wiki for <radiusChange>.

For the <*Change> elements where we keep @dir (gradientChange, operationModeChange, speedChange, trainProtectionChange and trainRadioChange), @dir only describes which direction of traffic the new value applies to. The value is applied to the infrastructure in the same way as for the other <*Change> elements. To reiterate a previous example, this means that

Pos 0	•	100	200	
Track				>
vMax ->	60	1	80	
vMax <-	40		80	

would be exported as:

```
<speedChange pos="0" dir="up" vMax="60"/>
<speedChange pos="0" dir="down" vMax="40"/>
<speedChange pos="100" dir="both" vMax="80"/>
```

Best regards, Thomas