Subject: Radius for straight lines

Posted by Susanne Wunsch railML on Mon, 12 Apr 2010 13:31:38 GMT

Hello,

how do you define "radiusChange" for straight lines?

valid but incorrect example:
```
<rail:radiusChange id="rc0"
           pos="0.0"
           radius="0"/>
```

invalid but correct example:
```
<rail:radiusChange id="rc0"
           pos="0.0"
           radius="INF"/>
```

For mathematical reasons the second variant should be preferred, but
xs:decimal doesn't support "INF" and "-INF".

http://www.w3.org/TR/xmlschema-2/#decimal

That would be possible with xs:float. But it introduces mantissa
with optional exponent. There isn't a possibility to constrain
'totalDigits' and 'fractionDigits'.

http://www.w3.org/TR/xmlschema-2/#float

The way in-between would be a union of xs:decimal with its digit
constrains and "INF".

What do you think?

Any ideas and comments appreciated...
Susanne

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