
Subject: Radius for straight lines

Posted by [Susanne Wunsch railML](#) on Mon, 12 Apr 2010 13:31:38 GMT

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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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