
Subject: How do I describe the geometry of curves in railML
Posted by [Andreas Franz](#) on Wed, 29 Jul 2009 12:03:10 GMT
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english version below

Hallo,

ich bin Andreas Franz, ich studiere Informationstechnik an der Dualen

Bachelorarbeit. Ergebnis meiner Arbeit soll ein Programm sein, dass aus GPS-Aufzeichnungen Infrastrukturdaten ermittelt und railML-Dokumente erzeugt.

Meine Frage ist deshalb, wie Kurven am besten in railML angelegt werden

Beispiel:

```
<radiusChange radius="1000.0" absPos="5500.00" pos="50.00"
name="radiusChange_1" id="1">
  <geoCoord lat="47.0" long="11.0" />
</radiusChange>
```

Was soll die Geo-Koordinate genau beschreiben, die Mitte auf der Kreisbogenlinie oder den Mittelpunkt des Kreises der die Kurve beschreibt

Endpunkt einer Kurve ablegen?

Andreas Franz

Hello,

my name is Andreas Franz, student of Baden-Wuerttemberg Cooperative State University Mannheim. I'm working on my bachelor thesis. My intention is to develop a program that identifies infrastructure data from gps-recordings and stores them in a railML document.

I want do describe the topology and the geometry of the track as accurately as possible.

My question is, what's the best way to model curves in railML? I'm currently using the <radiusChange> tag and an additional <geoCoord>.

Example:

```
<radiusChange radius="1000.0" absPos="5500.00" pos="50.00"
name="radiusChange_1" id="1">
  <geoCoord lat="47.0" long="11.0" />
</radiusChange>
```

Should the geo-coordinate describe the center on the arc of the circle or the center of the circle which characterises the curve (I use the first variant)? And how should I describe the beginning and end of a curve?

Is there another (better) possibility to store curves in railML?

Best regards,

Andreas Franz
