
Subject: Re: <railMLv3> Infra Geometry Terminology
Posted by [christian.rahmig](#) on Mon, 26 Nov 2018 15:24:08 GMT
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Dear Fabrizio,

Am 23.11.2018 um 13:01 schrieb Fabrizio Cosso:

- > can someone address me to some documents where I can find
- > the exact meaning of terminology used in Geometry View?
- > e.g. the exact meaning of each curveType, etc...

I suggest to use the UML model documentation (HTML report, available in [1]) or the XSD schema documentation (HTML, available in [2]). The railML 3 wiki, where besides the automatically generated schema documentation detailed definitions, best practices and open issues shall be adressed, is still under construction.

Regarding your specific question with the curve type:

Generally, railway alignment knows three basic curves:

- * straight lines (constant infinite radius)
 - * arcs (constant radius)
 - * transition curves (changing radius)
- railML introduces in <horizontalCurve>@curveType some more specific versions of transition curves, e.g. clothoides, cubic parabolas etc. Some of these curve types are described in more detail e.g. in [3] or [4].

Once, we start with the use case "Track Geometry" [5], we may have a closer look on these different types.

Best regards
Christian

[1] <https://svn.railml.org/railML3/tags/railML-3.1-rc/doc/model>

[2] <https://svn.railml.org/railML3/tags/railML-3.1-rc/doc/schema>

[3]

https://www.brainkart.com/article/Railway-Engineering-Transition-Curve_4227/

[4] <https://pwayblog.com/2016/07/03/the-clothoid/>

[5] https://wiki.railml.org/index.php?title=UC:IS:Track_Geometry

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