
Subject: Clothoid

Posted by [iruldacunha](#) on Tue, 21 Jun 2016 11:13:58 GMT

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Hello,

I'm an intern at Systra in railway engineering. I'm working on BIM technologies, such as railML, and we are making a study to use this format in the future, that's why I have so many questions to ask you.

Does someone have an example of a clothoid represented with its geometry? For example:

```
<radiusChange radius="2000" pos="175,18"
superelevation="15" geometryElementDescription="TS_clothoide">
```

Indeed, I tried to write this example with the documentation, but I think its not sufficient to represent the infrastructure geometry of the clothoid.

Don't hesitate to share an example which works. Thank you very much.

Best regards,

--

Illan RUL-DA CUNHA
Stagiaire étude et développement
DTE DOP, pôle BIM

72-74 rue Henry Farman • 75015 Paris • France
www.systra.com

Subject: Re: Clothoid

Posted by [christian.rahmig](#) on Wed, 22 Jun 2016 11:32:06 GMT

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Dear Illan,

welcome to the railML infrastructure community!

Am 21.06.2016 um 13:35 schrieb Illan RUL-DA CUNHA:

> [...]

>

> Does someone have an example of a clothoid represented with

> its geometry? For example: <radiusChange radius="2000"

> pos="175,18"

> superelevation="15"

> geometryElementDescription="TS_clothoide">

> Indeed, I tried to write this example with the

> documentation, but I think its not sufficient to represent

> the infrastructure geometry of the clothoide.

>
> [...]

Indeed, the example you provided only states that you have a clothoid, but not which specific type. Please use one of the other available enumeration values:

- * TS_cubicParabola
- * TS_parabola4
- * TS_WienerBogen
- * TS_BlossBogen
- * TS_Sinusoide
- * TS_Cosinusoide

You can also define your own value (if correct one is missing) making use of the any enumeration value.

To be clear: railML does not model the transition curve parameters. Please look them up in a corresponding reference or try to include the LandXML schema.

Best regards
Christian

--
Christian Rahmig
railML.infrastructure coordinator

Subject: Re: Clothoid
Posted by [iruldacunha](#) on Mon, 27 Jun 2016 07:54:07 GMT
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Hello, Christian,

I think, but maybe I'm wrong, that a clothoid is already a specific type of curvature, like a sinusoide or a Wiener Bogen.

Where can I include the LandXML? In railML?