Subject: How to model transitions bends in railML 2.0?
Posted by Christian Rahmig on Mon, 31 Jan 2011 19:34:08 GMT

Hello everybody,

my name is Christian Rahmig and I am currently working on a
railML2.0-based representation of a geometrical map of a railway
network, where I am facing a problem regarding transition bends.

A transition bend is the connecting geometric component between a
straight line (with infinite radius) and circular arc (with constant
radius > 0) and two circular arcs with different radii respectively. It
is characterised by a (usually linear) change of the track's curvature
and superelevation over the distance (cf. further information
http://en.wikipedia.org/wiki/Track_transition_curve)

The radiusChange element, which is usually used for geometric modelling
of the track, is not able to transport all the information defining a
transition bend. Since there are different options to handle this
problem - with and without modifying the infrastructure scheme - I want
to ask everybody in this forum first:

1. Who else deals with the task of modelling transition bends in railML 2.0?
2. If any, what different approaches for transition bend modelling have
been developed so far?

Any comments would be appreciated.

Kind regards
Christian Rahmig