
Subject: Re: [railML3.3] xs:choice between linearCoordinate and
geometricCoordinate

Posted by [christian.rahmig](#) on Fri, 22 Aug 2025 12:41:33 GMT

[View Forum Message](#) <> [Reply to Message](#)

Dear Mathias and Morten,

thank you for bringing up this topic and sorry for my late reply. I finally looked at the situation in
schemas railML 3.2 and railML 3.3:

In 3.2 you can define both, a linearCoordinate and a geometricCoordinate for one spotLocation. In
3.3 you have to choose between them.

Well, both implementations are far away from being perfect. For example, you cannot model two
linear coordinates (with different linear coordinate systems) for one spotLocation...

From my perspective, we have two possible solutions:

a) Allow for only one coordinate instance within one spotLocation element (which actually is the
solution with railML 3.3)

b) Allow for multiple linear or geometric coordinate instances within one spotLocation

Of course, each solution need to be adapted to linearLocation and areaLocation accordingly to
provide a consistent schema.

Dear beloved railML infrastructure community: which solution do you prefer?

As usual, any kind of feedback is highly appreciated...

Best regards

Christian

PS: Until this issue is solved, the way to model one infrastructure element location with several
different coordinates, is to model several spotLocation child elements for this infrastructure
element...
