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Subject: Re: Restricted Areas: limitedBy vs. elements inside  
Posted by [Joerg von Lingen](#) on Wed, 13 Jan 2021 04:58:36 GMT  
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Dear all,

we had two years ago the discussion about having border points and/or elements inside to define an area. The decision at that time was to abstain from the elements inside.

At the moment we have only the references to border points somewhere in a network topology. For a human looking on a schematic it might be easy to detect the area defined by these border points. However, a search algorithm going from the border points through the topology might not succeed finding the uniquely associated area. Especially in complex networks this may become (nearly) impossible. Has some one of you already experienced with such a problem?

There seem to be two ways out of the dilemma:

- 1) Having again the possibility to name the elements inside.
- 2) Associate a search direction with the border point. But here the question arises how such direction info shall be clearly defined.

What is your opinion on the topic?

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Regards,  
Jörg von Lingen - Rollingstock Coordinator

Joerg von Lingen wrote on 16.01.2019 12:08:

- > Dear all,
- >
- > we discussed this issue on the today telco. The preference for defining areas like work zone or local operation area or shunting area is to use isLimitedBy only. Thus the trackAssetInArea can be removed as redundant.
- >
- > However, for permission zones it might be better to name all the elements which are in the "group" (area) of this special permission. With the now direct linking it would be no problem to have the permissionZone not an instance of RestrictedArea and thus having different child elements.
- >
- > Could you please give me your opinion concerning your practise to define each of the particular

areas:

- > - work zone
  - > - local operation area
  - > - shunting zone
  - > - permission zone
  - >
  - > Regards,
  - > Jörg von Lingen - Interlocking Coordinator
  - > Thomas Nygreen wrote on 14.01.2019 13:49:
  - >> Dear Jörg,
  - >>
  - >> I have a strong preference for using only the <isLimitedBy>s
  - >> to define the area. This is also the current approach of the
  - >> Norwegian sector in railML2.4nor.
  - >> <https://www.railml.org/forum/index.php?t=msg&th=636&start=0&>.
  - >> The latter is also required (one or more). There can easily
  - >> be a very large number of assets within an RA, resulting in
  - >> a large number of such references. Through the topology and
  - >> positioning systems these assets are easily identifiable
  - >> without direct references.
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