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Subject: Defining the AreaLocation of a IL:RestrictedArea

Posted by [Mathias Vanden Auweele](#) on Fri, 27 Mar 2026 15:05:23 GMT

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Hello,

We need to define the topological location of a workzone. How can we do this? This question can be generalised for all RestrictedArea subclasses.

There is no corresponding IS:Workzone element. So no possibility to define it directly.

Note: I initially thought that a workaround could be to use the IL:isLimitedBy and referencing a IS:GenericArea. But railVivid limits the elements that can be referred by <isLimitedBy> to <trainDetectionElement>, <bufferStop>, <baliseGroup> and <signalIS>

Thanks

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Subject: Re: Defining the AreaLocation of a IL:RestrictedArea

Posted by [Jörg von Lingen](#) on Fri, 10 Apr 2026 03:48:33 GMT

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Dear Mathias,

in general the elements in interlocking domain do not have any location. This can only be retrieved by using the references into functional infrastructure.

The idea of IL:isLimitedBy is to define the extend of an area using functional elements at the area's border. This shall be elements with a spot location like signals, train detectors etc. The location of these 'border' elements shall be used to determine the area location of such a RestrictedArea. The direct reference to a defined area in functional infrastructure does not make sense from interlocking point of view. The interlocking needs to know the elements at the border of a RestrictedArea as the might be handled in a special way - e.g. locking to protect access from or to the area.

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Jörg von Lingen - Interlocking scheme coordinator

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Subject: Re: Defining the AreaLocation of a IL:RestrictedArea

Posted by [Mathias Vanden Auweele](#) on Mon, 13 Apr 2026 09:47:25 GMT

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Defining only the borders with IL:isLimitedBy and calculating the areaLocation from those holds a lot of risk. I have done this before and you need a lot of hypothesis to be able to perform this calculation (is it always the shortest path?) and when one border is missing due to data quality?

I propose that this is not the place to save bits but allow data providers to also provide a topology position for these elements. So I would propose a counterpart in the IS schema that can hold the areaLocation and be referenced by the IL.

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