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Subject: railML 3.2: Overlap/flank protection variants  
Posted by [Thomas Langkamm](#) on Tue, 14 Dec 2021 10:08:01 GMT  
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We work with interlockings that have variants of overlap and flank protection. More precisely, we have routes where we can choose different conditions for overlap and flank protection using an overlap selector element, which is used depending on the type and speed of the train.

Is there a way to make this explicit in railML, using one route element with variants of overlap and the various AssetAndState elements? Or would we define several route objects, one for each variant? If the latter, how would we model the overlap selection element in railML?

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Subject: Re: railML 3.2: Overlap/flank protection variants  
Posted by [Jörg von Lingen](#) on Wed, 15 Dec 2021 15:04:57 GMT  
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Hi,

the route destination is define by its routeExit element. This can have [0..\*] overlap child elements. Thus it is possible to define several overlaps for one route.

The flank protection can be explicitly defined only by references from the route to routeReleation elements. However, if you want to define different flank protections for different overlaps, there is no mean to differentiate the relation to any particular overlap. In that case it would be the best to define a route for each overlap.

Best regards,  
Joerg v. Lingen - Interlocking Coordinator

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