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Subject: [railML2] Adding a new element informationArea to ocp  
Posted by [Milan Wölke](#) on Mon, 24 May 2021 10:58:45 GMT  
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Hi,

in the timetable developer group we recently discussed passenger information in trains and its support by railML. Many of the timetable extensions for railML 2.5 are inspired by the need of feeding systems related to passenger information using railML. Most of these could be handled inside the timetable subschema itself.

However we recently came across some requirements that would be best modelled by extending the infrastructure subschema. In particular we were thinking about ways to describe when a special text on a display should be shown and when it should be removed again. The requirement from the community is that this should be possible when entering or leaving a certain area that can be defined around a point in the infrastructure. From our point of view such area would best be defined in the infrastructure subschema as part of the OCP.

Looking at the existing work in infrastructure we came up with this idea for modelling areas like that:

So below `//infrastructure/operationControlPoints/ocp/propOther` we would like to add "informationAreas" as a container, that can be filled with informationArea elements, each specifying an id for later referencing from timetable. Each informationArea would define its shape around the OCP as a set of coordinates. We so far discussed rectangle, polygon and circle. While the definition of circle and polygone is pretty clear to us, we would appreciate help in modelling rectangular areas. Our discussing showed that using two points like we usually do in computer graphics will not work. So also here we would like to benefit from the experience of the infrastructure group.

So to sum it up, we want to add information areas to the OCPs and we would need help in describing a rectangular area in a non redundant way with geocoordinates.

What is your opinion? What should the name of such information area be? Can you help us with the rectangle?

Thanks in advance for any support you can render.

Best regards, Milan

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### File Attachments

1) [infoArea.png](#), downloaded 734 times

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Subject: Re: [railML2] Adding a new element informationArea to ocp

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Posted by [christian.rahmig](#) on Fri, 28 May 2021 11:37:49 GMT

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Dear Milan,

thank you for sharing these ideas from the TT developers group with the IS community.

The approach of modelling "information areas" around OCPs sounds reasonable although it is not "touchable" infrastructure in a straight definition. So, I am curious to hear/read from the community about their needs for having information areas modelled within railML 2.5.

Some specific questions:

- \* Will information areas also needed for other infrastructure elements, e.g. level crossings or bridges or tunnels?
- \* naming: To make it more precise, how about <passengerInformationArea>?
- \* Is there any linking with other types of areas, e.g. track-related areas?

Finally, let's come to the rectangle challenge:

Generally, any kind of area will use <geoCoord> elements to define certain points describing the area boundaries. Every <geoCoord> element contains the attribute @epsgCode to define the coordinate reference system of the coordinate. For instance, EPSG::4326 specifies a WGS84 coordinate in 2D with latitude and longitude axes. Therefore, although not explicitly modelled in railML, the axes of the coordinates are given. Consequently, it is absolutely possible to model a rectangle using two coordinate positions: the rectangle is defined by lower left and upper right point with sides being parallel to the axes defined by the coordinate reference system (EPSG code). But you have to make sure, that all coordinate positions of the rectangle (as well as for any other geometry) are linked with the same coordinate reference system.

Any comments from the community are highly appreciated...

Best regards  
Christian

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Subject: Re: [railML2] Adding a new element informationArea to ocp

Posted by on Tue, 01 Jun 2021 14:25:16 GMT

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Hello Christian,

we have another question about the representation of the <informationAreas>. We use the <tGeoCoord> elements to define their dimensions. These also contain information about the height of an item. However, in the context of the <informationArea> this is irrelevant and could possibly lead to confusion. In our view, it would be a clearer modelling if we used geo-coordinates that do not contain height information. Since we do not necessarily want to introduce a new element for this, our question is whether such an element already exists. Alternatively, we

would use the existing <tGeoCoord> element and point out in the documentation that in this context the height should not be specified.

Best regards  
Christian Rößiger

--

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Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by [Torben Brand](#) on Fri, 11 Jun 2021 11:21:42 GMT  
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Hi,

I would like to make you aware of the proposal for a generic area in railML2.5 (but now postponed for 2.6).

Original proposal (found here [https://www.railml.org/forum/index.php?t=msg&th=804&goto=2681&#msg\\_2681](https://www.railml.org/forum/index.php?t=msg&th=804&goto=2681&#msg_2681)) was for UC for trac sections (for TVD), but implementation as in railML2.4nor (See chapter 4.6 in [https://www.jernbanedirektoratet.no/globalassets/documenter/railml/20201217\\_railml2.4norisdocumentation\\_v1.4.pdf](https://www.jernbanedirektoratet.no/globalassets/documenter/railml/20201217_railml2.4norisdocumentation_v1.4.pdf)) is generic and could also be used for the purpose of an OCP information area.

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Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by [christian.rahmig](#) on Fri, 11 Jun 2021 14:25:46 GMT  
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Dear Christian,

In our view, it would be a clearer modelling if we used geo-coordinates that do not contain height information. Since

we do not necessarily want to introduce a new element for this, our question is whether such an element already exists. Alternatively, we would use the existing <tGeoCoord> element and point out in the documentation that in this context the height should not be specified.

I suggest to define this rule of having only 2-dimensional coordinates for information areas as a semantic constraint for two reasons:

- \* we don't need to define a new datatype for a spatial coordinate, but can make use of the existing one
- \* we remain open for future changes, e.g. when railways conquer also the vertical dimension of

space ;-)

I created a new Trac ticket #473 [1] for the topic to be included in railML 2.5.

[1] <https://trac.railml.org/ticket/473>

Best regards  
Christian

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Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by [christian.rahmig](#) on Fri, 11 Jun 2021 14:30:36 GMT  
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Dear all,

Torben Brand wrote on Fri, 11 June 2021 13:21Hi,

I would like to make you aware of the proposal for a generic area in railML2.5 (but now postponed for 2.6).

Orriginal proposal (found here [https://www.railml.org/forum/index.php?t=msg&th=804&goto=2681&#msg\\_2681](https://www.railml.org/forum/index.php?t=msg&th=804&goto=2681&#msg_2681)) was for UC for trac sections (for TVD), but implementation as in railML2.4nor (See chapter 4.6 in [https://www.jernbanedirektoratet.no/globalassets/documenter/railml/20201217\\_railml2.4norisdocumentation\\_v1.4.pdf](https://www.jernbanedirektoratet.no/globalassets/documenter/railml/20201217_railml2.4norisdocumentation_v1.4.pdf)) is generic and could also be used for the purpose of an OCP information area.

I appreciate Torben's idea of fusing the approaches of the generic <area> and the OCP's informationArea. What does the community think about it? And secondly, is it sufficient to have the OCP's informationArea implemented with railML 2.6 (like planned for the generic <area> element)?

Any comments are very much welcome...

Best regards  
Christian

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Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by [Milan Völke](#) on Tue, 15 Jun 2021 09:01:11 GMT  
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Hi,

I am afraid postponing it to 2.6 would not be soon enough for some members of the timetable community. Since passenger information is a major point of the timetable 2.5 changes I think it

would make sense to include that too in order to keep things together.

Regarding the questions above:

Quote:

- \* Will information areas also be needed for other infrastructure elements, e.g. level crossings or bridges or tunnels?
- \* naming: To make it more precise, how about <passengerInformationArea>?
- \* Is there any linking with other types of areas, e.g. track-related areas?

We will need those information areas also for tracks and platformEdges. I have created a branch where those changes could be reviewed already in the repository:

<https://svn.railml.org/railML2/branches/passengerInfo.infrastructure/schema/>

Other infrastructure elements haven't been requested so far.

Regarding the naming I think your proposal would be fine and a bit more clear. Let me know if I should include that change in the branch above.

Regarding linking, I'm not aware of such links. Don't think this is an issue.

Best regards, Milan

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Subject: Re: [railML2] Adding a new element informationArea to ocp

Posted by [Thomas Kabisch](#) on Tue, 15 Jun 2021 11:47:57 GMT

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Hello,

for our use case "Passenger information within trains" it is essential to have some kind of area that surrounds dedicated infrastructure objects (most important are OCP's) available in RailML 2.5.

We use areas to control the dynamic behaviour of the PIS. For example, the PIS system initiates an announcement in the moment when the train enters the area of a dedicated station. A fusion with a generic area element is reasonable for us as well if a link between the underlying infrastructure element (i.e. ocp) and the area is supported.

Regards,  
Thomas

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Subject: Re: [railML2] Adding a new element informationArea to ocp

Posted by [christian.rahmig](#) on Fri, 25 Jun 2021 13:05:54 GMT

Dear Thomas and Milan,

thank you very much for your feedback. So, an implementation of the information area in railML 2.5 is intended.

However, we still need some clarification on the naming: There exists already an area element in railML 2 infrastructure (see [1]). In order to avoid confusion, we should agree on one of the following options:

- \* introduce <trackElements/area> anyway
- \* introduce <trackElements/area> and rename <ocp/area> in <ocp/zipCodeDistrict>
- \* introduce <trackElements/genericArea>
- \* introduce <trackElements/specificPurposeArea>

Which solution do you prefer? As usual, any comment is highly appreciated...

[1] <https://wiki2.railml.org/wiki/IS:area>

Thank you very much and best regards  
Christian

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Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by [Torben Brand](#) on Sat, 26 Jun 2021 04:53:49 GMT  
[View Forum Message](#) <> [Reply to Message](#)

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Christian Rahmig <coord@infrastructure.railML.org> wrote:

> Dear Thomas and Milan,  
>  
> thank you very much for your feedback. So, an implementation  
> of the information area in railML 2.5 is intended.  
>  
> However, we still need some clarification on the naming:  
> There exists already an area element in railML 2  
> infrastructure (see [1]). In order to avoid confusion, we  
> should agree on one of the following options:  
> \* introduce <trackElements/area> anyway  
> \* introduce <trackElements/area> and rename <ocp/area> in  
> <ocp/zipCodeDistrict>  
> \* introduce <trackElements/genericArea>  
> \* introduce <trackElements/specificPurposeArea>  
>  
> Which solution do you prefer? As usual, any comment is  
> highly appreciated...  
>  
> [1] <https://wiki2.railml.org/wiki/IS:area>  
>

> Thank you very much and best regards  
> Christian

Dear all,

The norwegian community would prefer a new generic implementation of «area» as described in our earlier proposal that fullfills the use case of the existing ocp zip code area (can then be deprecated), information area, track section, work area, local area and project area. Note generic areas can span over both tracks and ocps, so the suggestion is to place it in the infrastructure root in a container: <infrastructure/areas/area> For the rest of the suggested implementation see my previous posting.

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TOBR

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Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by [Thomas Nygreen](#) on Thu, 01 Jul 2021 21:52:11 GMT  
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Dear all,

If merging the two area approaches, then <genericArea> seems like a good name suggestion. If we were to keep them separate, I suggest <trackArea> for the type defined by positions on tracks and maybe something like <geographicArea> for the type defined by geographic coordinates. When joining the two, it is important to make sure that the added flexibility has a benefit and does not only end up being a burden to the consumers of the files. Continuing on that note, I would suggest skipping the rectangle definition altogether, as it is just a special case of a polygon.

Following Torben's train of thoughts, how generic should we make this element? Possible properties include (at least):

The usuals: id, code, name, description  
designator

list of references to limiting elements (defining the borders of the area in the track network)  
geographic coordinates

ocp reference (or vice versa: the ocps can reference to its areas by id)  
zip code or other external area codes or area names

Best regards,  
Thomas

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Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by [christian.rahmig](#) on Fri, 09 Jul 2021 08:41:29 GMT  
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Dear all,

the Trac ticket #393 [1] summarizes the planned railML 2.5 solution updated with all your comments. Please have a look at it and provide your feedback. Thank you very much.

[1] <https://trac.railml.org/ticket/393>

Best regards  
Christian

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Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by [Thomas Nygreen](#) on Sat, 10 Jul 2021 20:11:44 GMT  
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Dear all,

I have two comments:

1: We should avoid two completely different <area> elements in IS (see Christian's comment from 25 June 2021). Of the options listed there, I prefer calling the new element <genericArea>. Another alternative is something like <infrastructureArea>.

2: I find the requirement that the first and final point of a polygon must be identical to be

the final edge of the polygon, from the final to the first vertex is implied. In addition to remove redundancy, this also removes the question how to interpret a provided polygon where the first and final vertices do not match. Should anyone still happen to copy the first vertex at the end, the interpretation is still unambiguous and unchanged.

Best regards,  
Thomas

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Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by [christian.rahmig](#) on Fri, 16 Jul 2021 11:47:11 GMT  
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Dear Thomas,  
dear all,

Thomas Nygreen wrote on Sat, 10 July 2021 22:11

1: We should avoid two completely different <area> elements in IS (see Christian's comment from 25 June 2021). Of the options listed there, I prefer calling the new element <genericArea>. Another alternative is something like <infrastructureArea>.

thank you for your feedback on the terms. As there has been not such a big resonance on my

forum post from June 25, I wanted to pickup the topic and ask again for feedback from the community: <area> or <genericArea> or <infrastructureArea>?

Thomas Nygreen wrote on Sat, 10 July 2021 22:11

2: I find the requirement that the first and final point of a polygon must be identical to be

the final edge of the polygon, from the final to the first vertex is implied. In addition to remove redundancy, this also removes the question how to interpret a provided polygon where the first and final vertices do not match. Should anyone still happen to copy the first vertex at the end, the interpretation is still unambiguous and unchanged.

Interesting point! When I developed this solution proposal I was inspired by OpenStreetMap's approach with the element <way> [1]. There, repeating the first point is required in order to distinguish between an open way and a closed way / area. As our railML area is clearly focused on an area only, we can assume that all of these geometric forms are closed. So, I support your idea. What about other opinions from the community?

[1] <https://wiki.openstreetmap.org/wiki/Way>

Best regards  
Christian

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Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by on Fri, 23 Jul 2021 09:01:03 GMT  
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Hello all,

Am 01.07.2021 um 23:52 schrieb Thomas Nygreen:

- > Following Torben's train of thoughts, how generic should we
- > make this element? Possible properties include (at least):
- > The usuals: id, code, name, description
- > designator
- > list of references to limiting elements (defining the
- > borders of the area in the track network)
- > geographic coordinates
- > ocp reference (or vice versa: the ocps can reference to its
- > areas by id)
- > zip code or other external area codes or area names

I like the idea of a generic <area>. However, I would strictly ensure that this element does not contain any properties that are needed for a specific use case. In my view, an <area> should simply represent an area on the surface of the earth.

Accordingly, an <area> should not contain any references to <controller> and <ocp> and also no <state> element as suggested by Christian Rahmig.

This implies that the areas must be referenced from their "owners" (<controller>, <ocp>), in general several <areas> per owner should be possible.

Likewise, I would avoid the attribute "type", as this property can also be derived from the referencing element.

Best regards  
Christian Rößiger

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Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by [Thomas Kabisch](#) on Fri, 23 Jul 2021 16:21:56 GMT  
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Hello everybody,

the idea of having a generic area concept works fine also in our use case "Passenger information within trains".

In our understanding, the area is tightly related to a specific infrastructure element (for the PIS use case, only ocps are required).

For example, we use these areas together with the GPS signal of the train to determine that the train is approaching a particular station.

An only implicit link between the ocp and the area will likely lead to a missinterpretations (e.g. in case of short station distances with overlapping areas).

Therefore, we suggest to establish explicit links from the infrastructure element to the assigned areas. One infrastructure element should have the opportunity to link to a number of areas.

Best regards,  
Thomas Kabisch

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Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by [christian.rahmig](#) on Mon, 26 Jul 2021 14:00:40 GMT  
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Dear all,

thank you very much for your input and feedback, which I considered when updating the railML 2.5 solution proposal in Trac ticket #393 [1].

The central aspect is the direction of referencing: In order to keep the area generic (which is also visible from the renaming of the element from <area> into <genericArea>), all references from the area to other elements have been removed. Instead, specialization of a generic area is done via the reference from the infrastructure element to the area. For example, an OCP can refer to an arbitrary number of information areas with <informationArea> elements. Likewise, a track can refer to an arbitrary number of <workingArea> elements...

I hope that the adapted railML 2.5 solution proposal meets all your requirements (please cross-check with the Trac ticket #393) and I am looking forward to receiving your comments, critics, suggestions, questions, applause, ...

[1] <https://trac.railml.org/ticket/393>

Best regards  
Christian

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Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by [Milan Wölke](#) on Tue, 27 Jul 2021 12:28:20 GMT  
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Hi Christian,

First of all thanks for the work you put in this. The timetable developer group asked me to respond on their behalves to let you know that with your latest changes all wishes have been fulfilled. This should work for our usecases nicely and it should allow for future usage of areas in other use cases as well.

Placing the informationAreaRef inside a propPassengerInformation is a good idea from our point of view and could also be applied to the other places related to passenger information namely //track/mediaResources and //track/trackElements/platformEdges/platformEdge/mediaResources.

Thanks again for the your gr8 work.

Best regards, Milan

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Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by [christian.rahmig](#) on Mon, 02 Aug 2021 13:49:20 GMT  
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Dear Milan,  
dear all,

when we want to use `<propPassengerInfo>` not only with `<ocp>`, but also with `<track>` and `<platformEdge>`, the question arises, if this `<propPassengerInfo>` shall be generic or specific. In particular:

- \* using a generic `<propPassengerInfo>` would allow `<informationArea>` elements not only for `<ocp>`, but also for `<platformEdge>` and `<track>` elements.
- \* using a specific `<propPassengerInfo>` implementation could be used to restrict `<informationArea>` elements only for `<ocp>`

What do you think: do we need `<informationArea>` also for `<track>` and `<platformEdge>`?

Best regards  
Christian

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Subject: Re: [railML2] Adding a new element `informationArea` to `ocp`  
Posted by [Milan Wölke](#) on Mon, 09 Aug 2021 11:20:00 GMT  
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Hi Christian,

as there was no requirement from the community to provide those areas also for tracks as well as platformEdges I think I would go for the specific approach. If at a later time someone has a need for this, we could still unify, but for now I think specific is the way to go.

Best regards, Milan

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Subject: Re: [railML2] Adding a new element `informationArea` to `ocp`  
Posted by [christian.rahmig](#) on Fri, 13 Aug 2021 09:40:03 GMT  
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Hello Milan,

thank you for your feedback. I followed your advice and implemented it the specific way in railML 2.5: There is now a child element `<propPassengerInfo>` for `<track>`, `<ocp>` and `<platformEdge>` encapsulating the `<mediaResources>`, but only for the element `<ocp>` the child element `<propPassengerInfo/informationArea>` exists.

All the details can be found in Trac tickets #393 [1], #473 [2] and #477 [3].

- [1] <https://trac.railml.org/ticket/393>  
[2] <https://trac.railml.org/ticket/473>  
[3] <https://trac.railml.org/ticket/477>

Best regards  
Christian

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Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by [Torben Brand](#) on Thu, 19 Aug 2021 10:16:37 GMT

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The proposal is quite a large redesign in a late stage. But the norwegian sector can live with the solution after we have checked it. What immediately comes to mind is that in #395:

- the sub element <localArea> is missing (as a redesign of in option 1 proposed @type="local")
- the removed controller reference from the generic area needs to be added somehow in the new sub elements (like for instance <trackVacancyDetectionArea>)
- a misunderstanding that working zones (#395) are the same as working areas and the attributes for working zones have been placed under workingArea. #395 should be as proposed but with a new sub elements <workingZone>

We need some more time to check for the rest... But in principle the solution suggestion as posted here and in #395 is acceptable.

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Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by [Milan Wölke](#) on Thu, 19 Aug 2021 13:30:34 GMT

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Hi Torben, as far as I know the idea for the controller reference is to reverse the direction of the reference. The area does not refer to the controller but rather the controller refers to the area. Otherwise the resulting areas would not be context free. We suggested to introduce context free areas, to avoid collecting various references of sorts to all kind of railML elements that all are optional except in that one use case where it is required.

Referencing the area from the //controllers/controller/trackVacancyDetectorArea/@ref would work for you, or am I missing something?

Best regards, Milan

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Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by [christian.rahmig](#) on Fri, 20 Aug 2021 12:47:03 GMT

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Dear all,

the reference between a controller and a track section / tvdSection is realized with the reference attribute <controller/trackVacancyDetectionArea>@ref. Yes, this approach inverts the originally planned reference from the (trackSection) area to the controller. Does this solution suit your requirements?

BR  
Christian

---

Subject: Re: [railML2] Adding a new element informationArea to ocp  
Posted by [christian.rahmig](#) on Fri, 20 Aug 2021 15:35:43 GMT  
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Dear Torben,

Torben Brand wrote on Thu, 19 August 2021 12:16

- the sub element <localArea> is missing (as a redesign of in option 1 proposed @type="local")

I updated the proposed railML 2.5 solution documented in Trac ticket #393 [1] following the suggestion by Thomas: a <controller> shall have a repeatable, but optional child element <localOperationArea>, which references a <genericArea> with the attribute @ref. This approach models an area that is locally controlled.

Torben Brand wrote on Thu, 19 August 2021 12:16

- a misunderstanding that working zones (#395) are the same as working areas and the attributes for working zones have been placed under workingArea. #395 should be as proposed but with a new sub elements <workingZone>

Following the latest discussion, I want to clarify: a <workZone> is some area considered for working, which is integrated into the interlocking system. Consequently, it is modelled as child element of <controller>, providing a reference to a <genericArea>. On the other side, there exist "track sections with impairments" affecting railway operation, e.g. by extending train running times. The reason for impairments can be construction sites or other reasons. I summarized this approach in modelling <impairmentSection> as optional, but repeatable child element of <track>, which references a <genericArea>.

If anyone has any comments on this updated implementation, please let us know ASAP.

[1] <https://trac.railml.org/ticket/393>

BR  
Christian

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