Subject: Differences between <screenCoordinates> and <Infrastructure visualization> tags

Posted by Fabiana Diotallevi on Mon, 24 Jun 2019 10:34:48 GMT

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Dear all,

we are adapting our tool RalL-AiD to import/export data in the new railML 3.1 format.

I have a question regarding the two different tags:

<infrastructureVisualizations>
<screenPositioningSystems>

My aim is to draw with RaIL-AiD a railway track-plan, then export it in railML 3.1 and then re-import it and visualize it.

Suppose that I have drawn the station, and that for each of my objects (i.e. signals, switches, balises, etc) I have defined a specific measure of the linear mileage in meters. I need to export, together with the linear coordinates of the objects, also the "screen" coordinates, because I would like to reload the railML file and see again on the screen the exact same drawing I had before the export.

My question is: where do the screen coordinates shall be saved in the railML file? In the <screenPositioningSystems> or in the <infrastructureVisualizations> tag?

In particular, I have a problem with the netElements, that are not simple "point-objects" defined by a couple of (x,y) coordinates, but they can be polygonal chains.

So far the only way I have found is to export them as a multi-point linearElementProjection> in the <infrastructureVisualizations> tag.

The same method (i.e. export objects coordinates using the <infrastructureVisualizations> tag) could be applied to map all other objects (spot-like, line-like, area-like).

In this approach, what is the use of the <screenPositioningSystems> tag? Can I neglect it?

I hope to have explained myself, thanks in advance.

Fabiana

Subject: Re: Differences between <screenCoordinates> and <Infrastructure visualization> tags

Posted by christian.rahmig on Fri, 05 Jul 2019 09:23:11 GMT View Forum Message <> Reply to Message

Dear Fabiana,

<infrastructure Visualizations > contains all the projections of elements

for graphical visualization of infrastructure, e.g. points, polygones, etc. while <screenPositioningSystems> is just the container for storing the coordinate system's parameter, e.g. the maximum screen resolution.

So, you shall save the screen coordinates with the elements under <infrastructureVisualizations>.

The connection between both elements is given with the reference attribute <visualization>@positioningSystemRef. Therefore, you need to have both elements in your export file, but the coordinates themselves (x,y) are given in the sub elements of <visualization>.

Best regards Christian

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Am 24.06.2019 um 12:34 schrieb Fabiana Diotallevi:

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- > the new railML 3.1 format.

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