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Subject: role names on association ends

Posted by [Felix Prüter](#) on Thu, 23 Jun 2016 13:16:45 GMT

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Hello,

I assume that all names on associations on the diagrams are role names.

If true, all these names should have a singular or plural ending corresponding the related multiplicity.

e.g.

SpotLocation --> PositioningNetElement: 1 netElement

LinearLocation --> PositioningNetElement: 1..\* netElements

ComposuitionNetElement --> ElementPartCollection: 0..\* elementCollections

Kind regards

Felix

SIGNON Deutschland GmbH

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Subject: Re: role names on association ends

Posted by [christian.rahmig](#) on Mon, 27 Jun 2016 08:54:22 GMT

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Dear Felix,

Am 23.06.2016 um 18:18 schrieb Felix Prüter:

- > Hello,
- > I assume that all names on associations on the diagrams are
- > role names.
- > If true, all these names should have a singular or plural
- > ending corresponding the related multiplicity.
- > e.g.
- > SpotLocation --> PositioningNetElement: 1 netElement
- > LinearLocation --> PositioningNetElement: 1..\* netElements
- > ComposuitionNetElement --> ElementPartCollection: 0..\*
- > elementCollections
- > [...]

Your assumption is correct. And we should keep it the same in the all the diagrams. However, in railML3 UML, the role name always describes one instance. For the XSD export, this results then in sth like this:

```
<linearLocation>
  <netElement ref="..." />
  <netElement ref="..." />
</linearLocation>
```

Here, netElement is the UML role name.

Best regards  
Christian

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Christian Rahmig  
railML.infrastructure coordinator

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Subject: Re: role names on association ends  
Posted by [Felix Prüter](#) on Mon, 27 Jun 2016 12:00:20 GMT  
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Hi Christian,

> And we should keep it the same in the all  
the diagrams.

So the singular form should be used everywhere!?

Regards  
Felix

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Subject: Re: role names on association ends  
Posted by [Alain Jeanmaire](#) on Fri, 07 Oct 2016 08:57:04 GMT  
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Dear Felix,

to complete Christian's answer:

--> the best way is to use the singular or plural in accordance with the cardinality

Regards,  
Alain Jeanmaire/Gilles Dessagne  
SNCF Réseau

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