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Subject: Re: Balise / baliseGroups : structure & attributes

Posted by [Susanne Wunsch railML](#) on Wed, 31 Oct 2012 22:09:04 GMT

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Dear Christian, Pierre and other railML users,

Christian Rahmig <coord@infrastructure.railml.org> writes:

>>> Conceptually a balise belongs to one and only one balise group. So why  
>>> not  
>>> create the parent node <baliseGroup> having a list of 1..8 balises ?  
>>> On top of that, attributes like countryID which today is attached to  
>>> <balise> could be move the parent node <baliseGroup> (+ some additional  
>>> attributes like  
>>> - idBaliseGroup  
>>> - its type (in Belgium we have Infill Balise Group / Signal Balise  
>>> Group /  
>>> Technical Fixed Balise Group / Technical Switchable Balise Group)  
>>> - its reference to the signal (xs:IDRef)

> - A <baliseGroup> is modelled as an element with ID and name and  
> therefore inherits the parameters id, name and code.

+1

> - A <baliseGroup> fulfills a certain function, which will be defined  
> in the parameter "type" with the possible values 'infill', 'signal',  
> technicalFixed' and 'technicalSwitchable'.

That above mentioned types are of different kind. A "signal" balise group is always "technicalSwitchable". The "infill" balise group is also always "technicalSwitchable". A "technicalFixed" balise group may be one for odometry or for track conditions ...

Thus I would prefer the enumeration values "infill", "signal" and "fixed" for the "type" attribute.

> - A <baliseGroup> may have a reference to a <signal>, which will be  
> defined in the optional parameter "signalRef".

On another thread we currently discuss the reference from a signal to its "train protection element". I would prefer to go the same way here.

Thus there could be a reference from a signal to its "protecting" balise group with a "baliseGroupRef" attribute in <signal> or <signalAspect>.

> - The reference from a <baliseGroup> to up to eight single <balise>  
> elements remains with the sequence of <baliseRef> objects.

As mentioned at the beginning of this thread the main idea was to define the up to eight balises inside the balise group not referring them outside. A balise of a balise group cannot be used otherwise by another balise group. Some attributes of the current <balise> element should move to the <baliseGroup> element in order to reduce not-needed redundancy.

> [1] <https://trac.assembla.com/railML/ticket/174>

Kind regards...  
Susanne

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Susanne Wunsch  
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