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Subject: [railML3] Functional type parameter for the balise group element  
Posted by [Davide Venturucci](#) on Thu, 07 May 2020 16:10:35 GMT

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Dear all,

in the last discussion in the railML ETCS group is been proposed to add a "functional type" to the balise group element.

The main functional types that could be added are described in detail below:

- NetworkRegistration: the balise is used to transmit connection information to the mobile network (Subset 026 P45 Radio Network registration)
- Connection: the balise is used to transmit connection information to an RBC (Subset 026 P42 Session Management)
- Announcement: the balise is used to announce a level transition to a train (Subset 026 P41 or P46 Level Transition Order or Conditional Level Transition Order). Could be also used to transmit Subset 026 P90 Track Ahead Free up to level 2/3 transition location.
- Border: the balise is used to order a level transition to a train (Subset 026 P41 or P46 Level Transition Order or Conditional Level Transition Order)
- Handover: the balise is used to trigger a connection with a neighboring RBC (Subset 026 P131 RBC transition order)
- Normal: the balise is used in all the other context.

What does the community think about this proposal? Is there any suggestion or change proposal on functional types?

Best regards,  
Davide

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Subject: Re: [railML3] Functional type parameter for the balise group element  
Posted by [Henrik Roslund](#) on Thu, 14 May 2020 13:46:48 GMT

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Hello,

I have been thinking about this since we discussed it in the ETCS Track NET meeting in April and I made a decision for myself about this.

I see this as optional information and not as mandatory information.  
The ETCS Packets has this information.

I can see a need for the "functional type" information in, e.g. a planning/test tool.  
E.g. the user wants to place in the GUI a "Network Registration Balise Group", and not a "Balise Group with Packet 45". In the back of the tool will the "Network Registration Balise Group" be translated into a "Balise Group with Packet 45".

Kind regards,

Henrik Roslund

Senior Consultant ETCS, MIRSE  
TÜV SÜD Schweiz AG

Member of the Workgroup «ETCS Track NET»

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Subject: Re: [railML3] Functional type parameter for the balise group element  
Posted by [christian.rahmig](#) on Fri, 22 May 2020 13:23:40 GMT  
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Dear Henrik and Davide,

Henrik Roslund wrote on Thu, 14 May 2020 15:46

...

I can see a need for the "functional type" information in, e.g. a planning/test tool.  
E.g. the user wants to place in the GUI a "Network Registration Balise Group", and not a "Balise Group with Packet 45". In the back of the tool will the "Network Registration Balise Group" be translated into a "Balise Group with Packet 45".

So, considering both of your posts, I conclude that we either include information about ETCS packet (e.g. "number 45") or add a type specifier with explicit values (e.g. "Network Registration Balise Group"). Current implementation of balise in railML 3.1 does not include any of these information. For reading and modelling purposes I prefer the option with explicit type specification. Are there any other opinions from the railML community?

Best regards  
Christian

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