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

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
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Member of the Workgroup «ETCS Track NET»

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