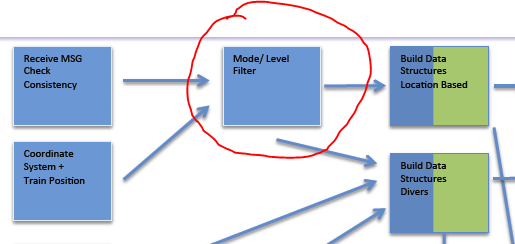
4.2.12 Filter Track information

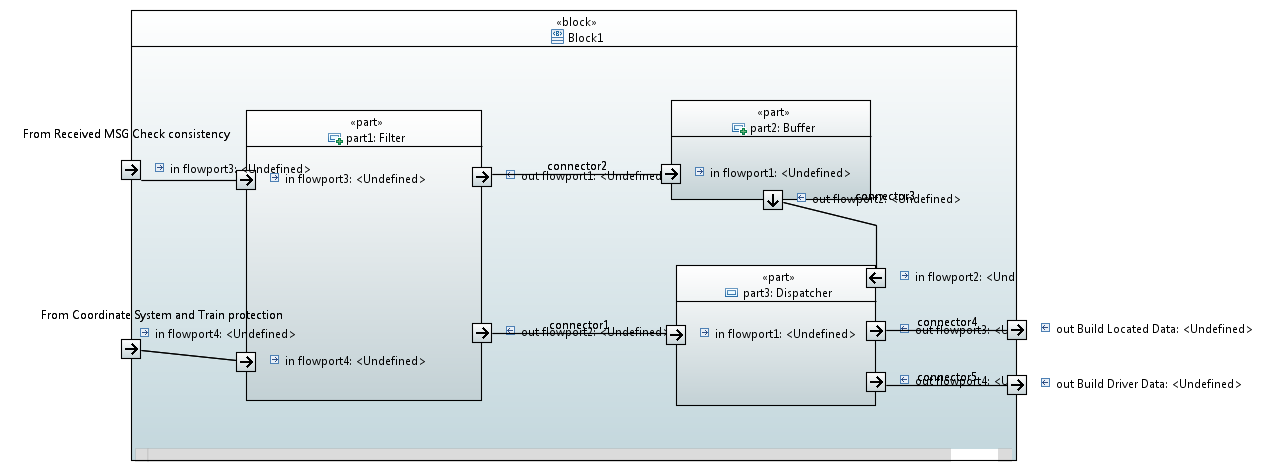
4.2.12.1 Interfaces:

Input: Receive MSG Check Consistency and Coordinate System and Train Position

Output: Build Data structure and Location Based/ Build Data Structures Drivers



4.2.12.2 SysML Model:



4.2.12.3 Detailed functional description

Rererence to SRS: § 4.8.2, § 4.8.2, § 4.8.3, § 4.8.4

4.2.12.4 Documentation of Design:

#### From § 4.8.1.2 The following sections have to be interpreted by applying the filters and the assigned packets/messages as shown in Figure xx. The first filter is detailed in section § 4.8.3 (figure xxx) “Accepted information depending on the level and transmission media”, the third filter in section § 4.8.4 (figure xx) “Accepted information depending on the modes”.

#### From § 4.8.1.3 If a message contains level transition information, any other information in that message shall be evaluated considering the level transition information

#### **Explanation:** If a message contains level transition information, all other information in that message shall be buffered and level transition shall be read first. Then the remained balise information shall be read from the buffer in the level that was announced to the balise.

##### From § 4.8.1.3.1 Information received in the same message as an immediate level transition order or a conditional level transition order that causes a level transition shall be evaluated first considering the on-board currently operated level, as if a level transition order for further location had been received (i.e. conditions [1], [2] or [6] of Figure 1, if applied, shall be automatically fulfilled). Then, if relevant, it shall be immediately extracted from the buffer and re-evaluated according to the new selected level.

##### **Explanation:** As described in Explanation of § 4.8.1.3 and figure 1 – First Filter conditions [1], [2] and [6])

#### From § 4.8.1.4 Note: As shown in Figure 1, information stored following an announcement of a change of level, is re-checked for acceptance when the level has changed. This implies that, when the level changes, the mode is - for a short moment – still unchanged, until the stored information has been processed. The consequence for the Third Filter is that information needs to be accepted for this short period also in modes in which this information is otherwise useless.

#### **Explanation:** when a level announced the level the mode change will be unchanged until the buffered information has been processed. The model change is the third filter (figure 1)

#### 

**!!Assumptions on § 4.8.2 need to be considered**

From § 4.8.3 Accepted information depending on the level and transmission media

**Explanation:** See figure 2 – announced packets/messages to the filter. Exception and explanation of the meaning of R and A please read § 4.8.3.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | From RBC | Onboard operating level | | | | |
| **Number** | **Package/Variables** | Information | 0 | NTC | 1 | 2 | 3 |
|  |  |  |  |  |  |  |  |  |
| 1 | Packet 3 | National Values | No | A | A | A | A | A |
|  |  |  | Yes | R [2] | R [2] | R [2] | A | A |
| 2 | Packet 5 | Linking | No | R [1] | R [1] | A | R [1] | R [1] |
|  |  |  | Yes | R [2] | R [2] | R [2] | A [3] | A [3] |
| 3 | V\_Main Packet 12 | Signalling Related Speed Restriction | No | R [1] | R [1] | A | R [1] | R [1] |
|  |  |  | Yes |  |  |  |  |  |
| 4 | Packet 12, 15 | Movement Authority | No | R [1] | R [1] | A [4] | R [1] | R [1] |
| 5 | Packet 80 | + (optional) Mode Profile |
| 6 | Packet 49 | + (optional) List of Balises for SH area |
|  |  |  | Yes | R [2] | R [2] | R [2] | A [3] [4] [5] | A [3] [4] [5] |
| 7 | Packet 16 | Repositioning Information | No | R | R | A | R | R |
|  |  |  | Yes |  |  |  |  |  |
| 8 | Packet 21 | Gradient Profile | No | R [1] | R [1] | A | R [1] | R [1] |
|  |  |  | Yes | R [2] | R [2] | R [2] | A [3] | A [3] |
| 9 | Packet 27 | International SSP | No | R [1] | R [1] | A | R [1] | R [1] |
|  |  |  | Yes | R [2] | R [2] | R [2] | A [3] | A [3] |
| 10 | Packet 51 | Axle Load speed profile | No | R [1] | R [1] | A | R [1] | R [1] |
|  |  |  | Yes | R [2] | R [2] | R [2] | A [3] | A [3] |
| 11 | Packet 41 | Level Transition Order | No | A | A | A | A | A |
|  |  |  | Yes | A | A | A | A | A |
| 12 | Packet 46 | Conditional Level Transition Order | No | A [11] | A [11] | A [11] | A [11] | A [11] |
|  |  |  | Yes |  |  |  |  |  |
| 13 | Packet 42 | Session Management | No | A | A | A | A | A |
|  |  |  | Yes | A | A | A | A | A |
| 14 | Packet 45 | Radio Network registration | No | A | A | A | A | A |
|  |  |  | Yes | A | A | A | A | A |
| 15 | Packet 57 | MA Request Parameters | No |  |  |  |  |  |
|  |  |  | Yes | A | A | A | A | A |
| 16 | Packet 58 | Position Report parameters | No |  |  |  |  |  |
|  |  |  | Yes | A | A | A | A | A |
| 17 | Package 63 + Message Radio 2 + (optional) Packet 49 | SR Authorisation + (optional) List of Balises in SR mode | No |  |  |  |  |  |
|  |  |  | Yes | R | R | R | A [3] | A [3] |
| 18 | Packet 137 | Stop if in SR mode | No | R | R | A | A | A |
|  |  |  | Yes |  |  |  |  |  |
| 19 | D\_SR in Packet 13 | SR distance information from loop | No | R | R | A | R | R |
|  |  |  | Yes |  |  |  |  |  |
| 20 | Packet 65 | Temporary Speed Restriction | No | A | R [1] [2] | A | A [8] | A [8] |
|  |  |  | Yes | R [2] | R [2] | R [2] | A [3] | A [3] |
| 21 | Packet 66 | Temporary Speed Restriction Revocation | No | A | R [1] [2] | A | A | A |
|  |  |  | Yes | R [2] | R [2] | R [2] | A [3] | A [3] |
| 22 | Package 64 | Inhibition of revocable TSRs from balises in L2/3 | No |  |  |  |  |  |
|  |  |  | Yes | R [2] | R [2] | R [2] | A | A |
| 23 | Packet 141 | Default Gradient for TSR | No | A | R [1] [2] | A | A | A |
|  |  |  | Yes |  |  |  |  |  |
| 24 | Packet 70 | Route Suitability Data | No | R [1] | R [1] | A | R [1] | R [1] |
|  |  |  | Yes | R [2] | R [2] | R [2] | A [3] | A [3] |
| 25 | Packet 71 | Adhesion Factor | No | R[1] | R[1] | A | R | R |
|  |  |  | Yes | R[2] | R[2] | R[2] | A | A |
| 26 | Packet 72 | Plain Text Information | No | A | R [1] [2] | A | A | A |
|  |  |  | Yes | R [2] | R [2] | R [2] | A [12] | A [12] |
| 27 | Packet 76 | Fixed Text Information | No | A | R [1] [2] | A | A | A |
|  |  |  | Yes | R [2] | R [2] | R [2] | A [12] | A [12] |
| 28 | Packet 79 | Geographical Position | No | A | R [1] [2] | A | A | A |
|  |  |  | Yes | R [2] | R [2] | R [2] | A | A |
| 29 | Packet 131 | RBC Transition Order | No | R | R | R | A | A |
|  |  |  | Yes | R | R | R | A [3] | A [3] |
| 30 | Packet 132 | Danger for SH information | No | A [13] | A [13] | A | A | A |
|  |  |  | Yes |  |  |  |  |  |
| 31 | Package 135 | Stop Shunting on desk opening | No | A | A | A | A | A |
|  |  |  | Yes |  |  |  |  |  |
| 32 | Packet 133 | Radio Infill Area information | No | R | R | A | R [1] | R [1] |
|  |  |  | Yes |  |  |  |  |  |
| 33 | Package 42 | Session Management with neighbouring RIU | No | R | R | A | R | R |
|  |  |  | Yes |  |  |  |  |  |
| 34 | Packet 134 | EOLM information | No | A | A | A | A | A |
|  |  |  | Yes |  |  |  |  |  |
| 35 | Messager 45 | Assignment of Co-ordinate system | No |  |  |  |  |  |
|  |  |  | Yes | A [10] | A [10] | A [10] | A [10] | A [10] |
| 36 | Packet 136 | Infill Location Reference | No | R | R | A | R [1] | R [1] |
|  |  |  | Yes |  |  |  |  |  |
| 37 | Packet 39, Packet 68 | Track Conditions excluding big metal masses | No | R [1] | R [1] | A | R [1] | R [1] |
|  |  |  | Yes | R [2] | R [2] | R [2] | A [3] | A [3] |
| 38 | Packet 67 | Track condition big metal masses | No | A | A | A | A | A |
|  |  |  | Yes |  |  |  |  |  |
| 39 | Header Balise | Location Identity (NID\_C + NID\_BG transmitted in the balise telegram) | No | A | A | A | A | A |
|  |  |  | Yes |  |  |  |  |  |
| 40 | Radio Message 6 | Recognition of exit from TRIP mode | No |  |  |  |  |  |
|  |  |  | Yes | R | R | R | A | A |
| 41 | Message Radio 8 | Acknowledgement of Train Data | No |  |  |  |  |  |
|  |  |  | Yes | A | A | A | A | A |
| 42 | Message 9 | Co-operative shortening of MA | No |  |  |  |  |  |
| 43 | Packet 80 | + (optional) Mode Profile |
| 44 | Packet 49 | + (optional) List of Balises for SH area |
|  |  |  | Yes | R | R | R | A [3] [4] [5] | A [3] [4] [5] |
| 45 | Message Radio 16 | Unconditional Emergency Stop | No |  |  |  |  |  |
|  |  |  | Yes | R [2] | R [2] | R [2] | A | A |
| 46 | Message Radio 15 | Conditional Emergency Stop | No |  |  |  |  |  |
|  |  |  | Yes | R [2] | R [2] | R [2] | A | A |
| 47 | Message Radio 18 | Revocation of Emergency Stop (Conditional or Unconditional) | No |  |  |  |  |  |
|  |  |  | Yes | R | R | R | A | A |
| 48 | Message Radio 27 | SH refused | No |  |  |  |  |  |
|  |  |  | Yes | R | R | R | A [3] | A [3] |
| 49 | Message Radio 28 + (optional)  Packet 49 | SH authorised + (optional) List of Balises for SH area | No |  |  |  |  |  |
|  |  |  | Yes | R | R | R | A [3] | A [3] |
| 50 | ?? | Trackside constituent System Version | No | A | A | A | A | A |
|  |  |  | Yes | A | A | A | A | A |
| 51 | Packet 2 | System Version order | No | A | A | A | A | A |
|  |  |  | Yes |  |  |  |  |  |
| 52 | Message Radio 34 | Track Ahead Free Request | No |  |  |  |  |  |
|  |  |  | Yes | R | R | R | A [3] | A [3] |
| 53 | Packet 140 Track to train,  Packet 40 Train to track | Train Running Number | No |  |  |  |  |  |
|  |  |  | Yes | R | R | R | A | A |
| 54 | Message Radio 38 | Initiation of session | No |  |  |  |  |  |
|  |  |  | Yes | R | R | R | A | A |
| 55 | Message 39 | Acknowledgement of session termination | No | A | A | A | A | A |
|  |  |  | Yes | A | A | A | A | A |
| 56 | Message 40 | Train Rejected | No |  |  |  |  |  |
|  |  |  | Yes | R | R | R | A | A |
| 57 | Message 41 | Train Accepted | No |  |  |  |  |  |
|  |  |  | Yes | R | R | R | A | A |
| 58 | Message Radio 43 | SoM Position Report Confirmed by RBC | No |  |  |  |  |  |
|  |  |  | Yes | R | R | R | A | A |
| 59 | Packet 138 | Reversing Area Information | No | R [1] | R [1] | A | R [1] | R [1] |
|  |  |  | Yes | R [2] | R [2] | R [2] | A [3] | A [3] |
| 60 | Packet 139 | Reversing Supervision Information | No | R [1] | R [1] | A | R [1] | R [1] |
|  |  |  | Yes | R [2] | R [2] | R [2] | A [3] | A [3] |
| 61 | Packet 254 | Default Balise/Loop/RIU Information | No | A | A | A | A | A |
|  |  |  | Yes |  |  |  |  |  |
| 62 | Packet 90 | Track Ahead Free up to level 2/3 transition location | No | A [9] | A [9] | A [9] | R | R |
|  |  |  | Yes |  |  |  |  |  |
| 63 | Package 52 | Permitted Braking Distance Information | No | R [1] | R [1] | A | R [1] | R [1] |
|  |  |  | Yes | R [2] | R [2] | R [2] | A [3] | A [3] |
| 64 | Package 88 | Level Crossing information | No | R [1] [2] | R [1] [2] | A | A | A |
|  |  |  | Yes | R [2] | R [2] | R [2] | A [3] | A [3] |
| 65 | Package 6(0) | Virtual Balise Cover order | No | A | A | A | A | A |
|  |  |  | Yes |  |  |  |  |  |
| 66 | Package 44 | Data to be used by applications outside ERTMS/ETCS | No | A | A | A | A | A |
|  |  |  | Yes | A | A | A | A | A |
|  |  |  | Onboard operating level | | | | | |
|  |  | Information from National System X through STM interface | 0 | NTC X | NTC Y | 1 | 2 | 3 |
|  |  |  |  |  |  |  |  |  |
| 67 | ?? | STM max speed | A [7] | R | R [6] | A [7] | A [7] | A [7] |
| 69 | ?? | STM system speed/distance | A [7] | R | R | A [7] | A [7] | A [7] |

From § 4.8.4 Accepted information depending on mode

**Explanation:** See figure 3 – announced packets/messages to the filter. Exception and explanation of the meaning of NR, R and A please read § 4.8.4.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Packet, Message | Information | Modes | | | | | | | | | | | | | | | | | |
|  |
|  |  |  | NP | SB | PS | SH | FS | LS | SR | OS | | SL | NL | UN | TR | PT | SF | IS | SN | RV |
| 1 | Packet 3 | National Values | NR | A [2] | A | A | A | A | A | A | | A | A | A | A | A [1] | NR | NR | A | A |
| 2 | Packet 5 | Linking | NR | A[2][4] | R | R | A | A | A | A | | R | A | A | R | A [1] | NR | NR | A | R |
| 3 | V\_Main in Packet 12 | Signalling Related Speed Restriction | NR | A[2][4] | R | R | A | A | A | A | | R | R | A | R | A [1] | NR | NR | A | R |
| 4 | Packet 12, 15 | Movement Authority | NR | A[2][4] | R | R | A | A | A | A | | R | R | A | R | A [1] | NR | NR | A | R |
| 5 | (optional) Packet 80 | + (optional) Mode Profile |
| 6 | (optional) Packet 49 | + (optional) List of Balises for SH area |
| 7 | Packet 16 | Repositioning Information | NR | R | R | R | A | A | R | A | | R | R | R | R | R | NR | NR | R | R |
| 8 | Packet 21 | Gradient Profile | NR | A[2][4] | R | R | A | A | A | A | | R | R | A | R | A [1] | NR | NR | A | R |
| 9 | Packet 27 | International SSP | NR | A[2][4] | R | R | A | A | A | A | | R | R | A | R | A [1] | NR | NR | A | R |
| 10 | Packet 51 | Axle load speed profile | NR | A[2][4] | R | R | A | A | A | A | | R | R | A | R | A [1] | NR | NR | A | R |
| 11 | ?? | STM max speed | NR | A [2] | R | R | A | A | A | A | | R | R | A | A | A [1] | NR | NR | A | R |
| 12 | ?? | STM system speed/distance | NR | A [2] | R | R | A | A | A | A | | R | R | A | A | A [1] | NR | NR | R | R |
| 13 | Packet 41 | Level Transition Order and Conditional Level Transition Order | NR | A [2] | A [7] | A [7] | A | A | A | A | | A | A | A | A | A [1] [5] | NR | NR | A | R |
| 14 | Packet 42 | Session Management | NR | A | A [3] | A [3] | A | A | A | A | | A | A | A | A | A [1] | NR | NR | A | A |
| 15 | Packet 49 | Radio Network registration | NR | A [2] | A | A | A | A | A | A | | A | A | A | A | A [1] | NR | NR | A | A |
| 16 | Packet 57 | MA Request Parameters | NR | A [2] | R | R | A | A | A | A | | R | R | A | R | A [1] | NR | NR | A | R |
| 17 | Packet 58 | Position Report parameters | NR | A [2] | R | R | A | A | A | A | | R | A | A | R | A [1] | NR | NR | A | A |
| 18 | Package Radio 63 + Message Radio 2 + (optional) Packet 49 | SR Authorisation+ | NR | A[2][4] | R | R | R | R | A | R | | R | R | R | R | A [1] | NR | NR | R | R |
| 19 | (optional) List of Balises in SR mode |
| 20 | Packet 137 | Stop if in SR mode | NR | R | R | R | R | R | A | R | | R | R | R | R | R | NR | NR | R | R |
| 21 | D\_SR in Packet 13 | SR distance information from loop | NR | R | R | R | R | R | A [6] | R | | R | R | R | R | R | NR | NR | R | R |
| 22 | Packet 65 | Temporary Speed Restriction | NR | A [2][4] | R | R | A | A | A | A | | R | R | A | A | A [1] | NR | NR | A | R |
| 23 | Packet 66 | Temporary Speed Restriction Revocation | NR | A[2][4] | R | R | A | A | A | A | | R | R | A | A | A [1] | NR | NR | A | R |
| 24 | Package 64 | Inhibition of revocable TSRs from balises in L2/3 | NR | A [2] | R | R | A | A | A | A | | R | R | A | A | A [1] | NR | NR | A | R |
| 25 | Packet 141 | Default Gradient for TSR | NR | A[2][4] | R | R | A | A | A | A | | R | R | A | A | A [1] | NR | NR | A | R |
| 26 | Packet 70 | Route Suitability Data | NR | A[2][4] | R | R | A | A | A | A | | R | R | A | R | A [1] | NR | NR | A | R |
| 27 | Packet 71 | Adhesion Factor | NR | A[2][4] | R | R | A | A | A | A | | R | R | A | R | A [1] | NR | NR | A | R |
| 28 | Packet 72 | Plain Text Information | NR | A [2] | R | R | A | A | A | A | | R | A | A | A | A [1] | NR | NR | A | A |
| 29 | Packet 76 | Fixed Text Information | NR | A [2] | R | R | A | A | A | A | | R | A | A | A | A [1] | NR | NR | A | A |
| 30 | Packet 79 | Geographical Position | NR | A [2] | R | R | A | A | A | A | | R | A | A | A | A [1] | NR | NR | A | R |
| 31 | Packet 131 | RBC Transition Order | NR | A[2][4] | A [8] | A [8] | A | A | A | A | | A | A | R | A | A [1] | NR | NR | R | R |
| 32 | Packet 132 | Danger for SH information | NR | R | R | A | R | R | R | | R | R | R | R | R | R | NR | NR | R | R |
| 33 | Package 135 | Stop Shunting on desk opening | NR | R | A | R | R | R | R | | R | R | R | R | R | R | NR | NR | R | R |
| 34 | Package 133 | Radio Infill Area information | NR | R | R | R | A | A | A | | A | R | R | R | R | R | NR | NR | R | R |
| 35 | Package 42 | Session Management with neighbouring RIU | NR | R | R | R | A | A | A | | A | R | R | R | R | R | NR | NR | R | R |
| 36 | Package 134 | EOLM information | NR | R | R | A | A | A | A | | A | A | A | A | A | R | NR | NR | A | A |
| 37 | Message Radio 45 | Assignment of Co-ordinate system | NR | A [2] | R | R | R | R | A | | R | R | A | A | R | A [1] | NR | NR | A | R |
| 38 | Package 136 | Infill Location Reference | NR | R | R | R | A | A | R | | R | R | R | R | R | R | NR | NR | R | R |
| 39 | Packet 39, 68 | Track Conditions excluding sound horn, non stopping areas, tunnel stopping areas and big metal masses | NR | A[2][4] | R | R | A | A | A | | A | R | A | A | A | A [1] | NR | NR | A | R |
| 40 | Packet 39, 68 | Track conditions sound horn, non stopping areas, tunnel stopping areas | NR | A[2][4] | R | R | A | A | A | | A | R | R | A | R | A [1] | NR | NR | A | R |
| 41 | Packet 67 | Track condition big metal masses | NR | A[2][4] | A | A | A | A | A | | A | A | A | A | A | A [1] | NR | NR | A | R |
| 42 | Header Balise | Location Identity (NID\_C + NID\_BG) | NR | A [2] | A | A | A | A | A | | A | A | A | A | A | A | NR | NR | A | A |
| 43 | Message Radio 6 | Recognition of exit from TRIP mode | NR | R | R | R | R | R | R | | R | R | R | R | R | A | NR | NR | R | R |
| 44 | Message Radio 8 | Acknowledgement of Train Data | NR | A [2] | R | R | A | A | A | | A | R | R | A | A | A | NR | NR | A | A |
| 45 | Message 9 | Co-operative shortening of MA | NR | R | R | R | A | A | R | | A | R | R | R | R | R | NR | NR | R | R |
| 46 | Packet 80 | + (optional) Mode Profile |
| 47 | Packet 49 | + (optional) List of Balises for SH area |
| 48 | Message Radio 16 | Unconditional Emergency Stop | NR | A [2] | R | R | A | A | A | | A | R | R | A | R | R | NR | NR | A | R |
| 49 | Message Radio 15 | Conditional Emergency Stop | NR | R | R | R | A | A | R | | A | R | R | A | R | R | NR | NR | A | R |
| 50 | Message Radio 18 | Revocation of Emergency Stop | NR | R | R | R | A | A | R | | A | R | R | R | R | A [1] | NR | NR | R | R |
| 51 | (Conditional or Unconditional) |
| 52 | Message Radio 27 | SH refused | NR | A [2] | R | R | A | A | A | | A | R | R | R | R | A [1] | NR | NR | R | R |
| 53 | Message Radio 28 + (optional)  Packet 49 | SH authorised + (optional) List of Balises for SH area | NR | A [2] | R | R | A | A | A | | A | R | R | R | R | A [1] | NR | NR | R | R |
| 54 | ?? | Trackside constituent System Version | NR | A | A | A | A | A | A | | A | A | A | A | A | A | NR | NR | A | A |
| 55 | Packet 2 | System Version order | NR | A | A | A | A | A | A | | A | A | A | A | A | A | NR | NR | A | A |
| 56 | Message Radio 34 | Track Ahead Free Request | NR | A [2] | R | R | R | A | A | | A | R | R | R | R | A[1] | NR | NR | R | R |
| 57 | Packet 140 Track to train,  Packet 40 Train to track | Train Running Number | NR | A [2] | R | R | A | A | A | | A | R | A | R | A | A | NR | NR | R | A |
| 58 | Message Radio 38 | Initiation of session | NR | A | R | R | A | A | A | | A | A | A | R | A | A | NR | NR | R | A |
| 59 | Message 39 | Acknowledgement of session termination | NR | A | A | A | A | A | A | | A | A | A | A | A | A | NR | NR | A | A |
| 60 | Message 40 | Train Rejected | NR | A [2] | R | R | R | R | R | | R | R | R | R | R | R | NR | NR | R | R |
| 61 | Message 41 | Train Accepted | NR | A [2] | R | R | R | R | R | | R | R | R | R | R | R | NR | NR | R | R |
| 62 | Message Radio 43 | SoM Position Report Confirmed by RBC | NR | A [2] | R | R | R | R | R | | R | R | R | R | R | R | NR | NR | R | R |
| 63 | Packet 138 | Reversing Area Information | NR | A[2][4] | R | R | A | A | A | | A | R | R | A | R | A [1] | NR | NR | A | A |
| 64 | Packet 139 | Reversing Supervision Information | NR | A[2][4] | R | R | A | A | A | | A | R | R | A | R | A [1] | NR | NR | A | A |
| 65 | Packet 254 | Default Balise/Loop/RIU Information | NR | A [2] | A | A | A | A | A | | A | A | A | A | A | A | NR | NR | A | A |
| 66 | Packet 90 | Track Ahead Free up to level 2/3 transition location | NR | A [2] | R | R | A | A | A | | A | R | R | A | A | A | NR | NR | A | R |
| 67 | Package 52 | Permitted Braking Distance Information | NR | A[2][4] | R | R | A | A | A | | A | R | R | A | R | A [1] | NR | NR | A | R |
| 68 | Package 88 | Level Crossing information | NR | A[2][4] | R | R | A | A | A | | A | R | R | A | R | A [1] | NR | NR | A | R |
| 69 | Package 6(0) | Virtual Balise Cover order | NR | A | A | A | A | A | A | | A | A | A | A | A | A | NR | NR | A | A |
| 70 | Package 44 | Data to be used by applications outside ERTMS/ETCS | NR | A | A | A | A | A | A | | A | A | A | A | A | A | NR | NR | A | A |